THOMPSON RIVERS UNIVERSITY

Academic CALENDAR

2019-2020

Published September 2019

THOMPSON RIVERS UNIVERSITY

Thompson Rivers University campuses are on the traditional lands of the Tk'emlúps te Secwépemc (Kamloops campus) and the T'exelc (Williams Lake campus) within Secwépemc'ulucw, the traditional and unceded territory of the Secwépemc people. Our region also extends into the territories of the Stat'imc, Nlaka'pamux, Nuxalk, Tsilhqot'in, Dakelh and Métis peoples.

The Thompson Rivers University Academic Calendar

The University Academic Calendar is TRU's official guide to programs and courses and services offered by the Thompson Rivers University. The Calendar also serves as a record of many university academic policies, procedures and regulations; along with dates of the academic terms, application deadlines, holiday closures and other important student service information.

The 2019-2020 Academic Calendar is effective as of September 1, 2019 through August 31, 2020.

Students should note that the contents of this publication are subject to change without notice. As the Academic Calendar is published well in advance of the opening of the session, the university reserves the right to make any and all changes it considers desirable with regard to any matter set out herein, including the cancellation of particular courses and programs. Refer to TRU's website at www.tru.ca regarding updates and changes to courses, programs, regulations and/or policies that may occur after publication of this calendar.

Once a program or course has commenced, the university will not be responsible in the event the program, or course is either cancelled or not completed as a result of a strike, lockout, fire, tempest, act of God or any other cause (whether similar or dissimilar to those enumerated) beyond the reasonable control of the university.

Students may need to consult an older version of the TRU Academic Calendar if the curricular requirements for their program change during their tenure at TRU. If you commenced your program before the 2019-2020 academic year, please refer to archived calendar editions for program requirements. Historical calendars can be found at tru.ca/calendar.

TRU reserves the right to change or amend its fee structure, policies and regulations at any time from those published in this calendar or elsewhere.

Managing Editor: Michael Bluhm, Associate Vice President, Enrolment Services and University Registrar

Published September 2019

To report errors or omissions, or to send comments or suggestions, please email calendar@tru.ca.

Contents

TRU Mission and University Governance 5

Administration and Leadership 6

Academic Schedule and Important Dates 2019–2020 ... 8

Admission and Registration 10
- Admission 10
- Registration 13

Tuition and Fees 13

Research and Graduate Studies 17

International Students 20

Policies, Regulations and Procedures 22

Student Services 24
- Academic Advising 24
- Assessment Centre 24
- Accessibility Services: Education within reach 24
- Career and Experiential Learning 24
- Counselling Services 24
- Early Alert: A safety net for students in difficulty 24
- Economics Help Centre 25
- Harassment and Discrimination Prevention 25
- Indigenous Student Services 25
- Math Help Centre 25
- Multi-Faith Chaplaincy 25
- Office of Student Affairs 25
- Orientation 25
- PACE – the Pack Academic Edge 25
- Sexualized Violence Prevention & Response 26
- Student Awards & Financial Support 26
- Student Housing 26
- Student Success Courses 27
- Supplemental Learning 27
- Student Life Transitions 27
- Student Leadership Development 27
- Wellness Centre 27
- Writing Centre 27
- Beyond the classroom 27

Campus Life 28
- Athletics and Recreation 28
- Bookstore 28
- Campus Activity Centre 28
- Campus Card 28
- Cariboo Child Care Society: Daycare 28
- Campus Infastructure and Sustainability 28
- Sustainability 28
- Transportation and Parking 28
- Food Services: Dining on campus 28
- Information Technology Services 29
- Lost & Found 29
- Medical Clinic 29
- Omega Student Newspaper 29
- Print Services 29
- Safety and Emergency Management 29
- Security 29
- TRU Alumni and Friends Association 30
- TRU Foundation 30
- TRU Theatres & Art Gallery 30
- University Library 30
- TRUSU: Thompson Rivers University Students' Union 30

Faculty of Adventure, Culinary Arts and Tourism 31
- Bachelor of Tourism Management 31
- Adventure Studies 33
- Tourism Management 33
- Post-Baccalaureate Certificate in Tourism 34
- Post-Baccalaureate Diplomas in Tourism 35
- Events and Conventions Management Diploma 38
- Resort and Hotel Management Diploma 39
- Tourism Management Diploma 42
- Adventure Guide Certificate 43
- Adventure Guide Diploma 46
- Culinary Arts Certificate: Professional Cook 1 and 2 48
- Culinary Arts Apprenticeship: Professional Cook 3 (Red Seal) 50
- Retail Meat Processing Foundation Certificate 51
- Meatcutter Apprenticeship Level 1 and Level 2 52

Faculty of Arts 54
- Bachelor of Arts 54
- Bachelor of Arts (BA), General Program 55
- Bachelor of Arts Major Programs 57
  - Major in Communication 66
  - Major in Criminology: Open Learning 57
  - Major in Economics 57
  - Major in Economic and Political Studies 58
  - Major in English 59
  - Major in Geography and Environmental Studies 60
  - Major in History 61
  - Major in Mathematics (Arts) 62
  - Major in Mathematics and Economics (Arts) 62
  - Major in Philosophy 63
  - Major in Psychology 64
  - Major in Sociology 65
  - Major in Theatre Arts 65
  - Double Major Program 66
- Bachelor of Arts Minors 67
- Bachelor of Fine Arts (Visual Arts) 69
- Bachelor of Interdisciplinary Studies 70
- Bachelor of Journalism 72
  - Bachelor of Journalism, Major in Public Relations 74
- Associate of Arts Degree 75
- Police and Justice Studies Diploma 76
- Visual Arts Diploma 77
- Visual Arts Studio Certificate 78
- Painting and Drawing Certificate 78
- Modern Languages Certificate 79
- Associate of Arts Modern Languages Degree 79
- World Languages and Cultures Certificate 80
- Aboriginal Studies Certificate 81
- Literary and Art History Certificate 81
- Cultural and Social Explorations Certificate 82

School of Business and Economics 83
- Master of Business Administration 83
- Master in Environmental Economics and Management 84

Master of Science in Environmental Economics and Management ...85
Bachelor of Business Administration....86
Bachelor of Business Administration Majors....87
Accounting Major 87
Economics Major 87
Entrepreneurship Major 87
Finance Major....87
Human Resource Management Major....88
International Business Major....88
Marketing Major....88
Supply Chain Management Major 88
General BBA....88
Bachelor of Business Administration Minors 88
Accounting Minor 88
Economics Minor 88
Entrepreneurship Minor 88
Environmental Economics and Sustainable Development Minor ..88
Finance Minor....88
Financial Markets and Institutions Minor 88
Financial Services Minor 88
Human Resource Management Minor....89
International Business Minor....89
Leadership Minor....89
Marketing Minor....89
Project Management Minor 89
Supply Chain Management Minor 89
Honours Degree Option 89
Dual Degrees....90
Post-Baccalaureate Diplomas in Business 91
Minor in Management 94
Management Diploma 95
Accounting Technician Diploma....96
Associate of Commerce and Business Administration Diploma 97
Executive Assistant Diploma 97
Business Foundations Certificate 98
Business Fundamentals Certificate 99
Administrative Assistant Certificate 99
First Nation Taxation Administration Certificate....100
First Nation Applied Economics Certificate 101

Faculty of Education and Social Work 102

Master of Education 102
Graduate Certificate in Educational Studies (GCES) 103
Bachelor of Education (Secondary) Science, Technology, Engineering and Mathematics (STEM)....104
Bachelor of Education (Elementary)....105
Bachelor of Education Physical Education Transfer Program....107
Bachelor of Social Work 107
Early Childhood Education Diploma 109
Special Needs Educator Certificate (Post-Diploma)....110
Infant and Toddler Educator Certificate (Post-Diploma) 110
Human Service Diploma....111
Education Assistant and Community Support Certificate....113
First Nations Language Teachers: Developmental Standard Term Certificate (DSTC)....114
Teaching English as a Second Language Certificate....115
English as a Second Language | Academic Preparation 116
University and Employment Preparation 118
Education and Skills Training Certificate Program (ESTR)....118

Faculty of Law 119

Juris Doctor (JD) 119

School of Nursing 121

Master of Nursing 121
Bachelor of Science in Nursing....122
Practical Nursing Diploma....126
Health Care Assistant Certificate 127
Aboriginal Pathways to Health Careers Program 128

Faculty of Science 129

Master of Science in Environmental Science 129
Bachelor of Computing Science 130
Dual Degrees in Computing and Business....131
Bachelor of Engineering in Software Engineering....132
Bachelor of Health Science 134
Bachelor of Science....135
Bachelor of Science, General Science Program....137
Bachelor of Science Minors 138
Minor in Archaeology and Geology 138
Minor in Computing Science 139
Minor in Environmental Economics & Sustainable Development 139
Minor in Management 139
Bachelor of Science Major Program....138
Double Major Program 139
Bachelor of Science Honours Program....140
Interdisciplinary Program in Chemical Biology....140
Major in Animal Biology 140
Major In Biology 140
Major In Cellular, Molecular, and Microbial Biology 141
Major in Ecology and Environmental Biology 141
Major in Chemistry....142
Major in Environmental Chemistry....143
Major in Computing Science....143
Major in Mathematics (Science)....145
Major in Mathematics and Economics (Science) 145
Major in Mathematical Sciences 146
Major in Physics 146
Bachelor of Natural Resource Science 148
Environmental Studies Certificate 151
Forestry Transfer Program....151
Associate of Science Degree 153
Applied Sustainable Ranching....155
First Nations Applied Land Management Certificate 155
Animal Health Technology Distance Education Diploma 156
Animal Health Technology Diploma (Campus)....157
Animal Welfare Certificate....160
Architectural and Engineering Technology Diploma....160
Computing Science Diploma 162
Engineering Transfer Program 163
Respiratory Therapy Program....165
Pre-Professional Health Sciences....168

Faculty of Student Development....172

Co-operative Education 172
Student Success Courses....174

School of Trades and Technology....175

Bachelor of Technology 175
Bachelor of Technology, Trades and Technology Leadership 176
Instrumentation Engineering Technology Diploma....177
Carpentry/Joinery Foundation Certificate Program....178
Carpenter Apprenticeship....178
Electrician, Electrical Trades Foundation Certificate Program 178
Electrical, Apprenticeship 179
Instrumentation and Control Technician, Foundation and Apprenticeship....179
Plumber, Steamfitter/Pipefitter, Sprinkler Fitter, Foundation and Apprenticeship....179
Automotive Service Technician Foundation and Apprenticeship....180
Refrigeration and Air Conditioning Mechanic Certificate 181

Refrigeration and Air Conditioning Apprenticeship....181
Heavy Mechanical Foundation Certificate 181
Heavy Duty Equipment Technician Apprenticeship 181
Industrial Mechanic (Millwright) and Machinist Foundation Certificate and Apprenticeship 181
Power Engineering Technology Certificate 182
Horticulture Management Diploma 182
Horticulture Certificate 183
Professional Cook Levels 1, 2 3 184
Retail Meat Processing | Meatcutter 184
Water and Wastewater Technology Diploma 184
Water and Wastewater Utilities Certificate 185
Welder Foundation Certificate....186
Welder Apprenticeship Training 187
Women in Trades....187
Program Overview 187
Youth Train in Trades Program....188

Williams Lake Campus 189

Student Services....189
Academic Advising 189
Bookstore....189
Counselling....189
Library 189
Services for Indigenous Students 189
Security 189
Administrative Assistant Certificate 190
Human Service Diploma 191
Trades and Technology Programs 191
Carpenter Foundation Certificate 191
Electrical Trades Foundation Certificate 191
Electrical Second Year Apprenticeship....192
Heavy Mechanical Trades 192
Saw Filer - Levels 1, 2, and 3 192
Welding Foundation Program....192
Welding Levels B and A....192
University Transfer Programs 193
Continuing Studies....194
Computer Courses 194

TRU Regional Centres 196

100 Mile House....196
Ashcroft and Cache Creek....196
Barriere....196
Clearwater 196
Ed2Go and TRU....196
Lillooet and Lytton 196

Course Descriptions....197

Course Descriptions Overview 197

Index 369

TRU Mission and University Governance

TRU Mission

TRU is a comprehensive, learner-centred, environmentally responsible institution that serves its regional, national, and international learners and their communities through high quality and flexible education, training, research and scholarship. Read the Academic Plan | Read the TRU Strategic Priorities

Governance

Governance at TRU is divided into three bodies responsible for corporate and academic decision-making. The Board of Governors makes decisions on such matters as property development, labour and finance. The Senate and the Planning Council for Open Learning make decisions on such matters as curriculum, credentials, admissions and educational policies. The composition, powers and duties of each governing body are legislated by the Province of British Columbia in the *Thompson Rivers University Act*.

Board of Governors

The Thompson Rivers University Board of Governors has a legislated set of responsibilities for directing the affairs of the institution and setting policies in accordance with the Thompson Rivers University Act. In summary, the Board is responsible for the management, administration and control of the property, revenue, business and affairs of the university.

The Board of Governors holds four to five public board meetings per year. Students and the general public are invited to attend public meetings. Please see the Board of Governors web page for full information, including membership and meeting schedule.

Enquiries pertinent to the Board of Governors are handled by the Secretariat and should be directed to secretariat@tru.ca or by phone at 250-828-5318.

Senate

The Thompson Rivers University Senate has a legislated set of responsibilities for directing the affairs of the institution and setting policies in accordance with the Thompson Rivers University Act.

The Senate has:

1. advisory responsibilities on the development of educational policies for the matters designated under the Act;
2. the power and duty to set policy, criteria and curriculum for the matters designated under the Act.

Senate normally meets on the 4th Monday of each month from September to June. Students and the general public are invited to attend public meetings. Please see the Senate web page for full information, including membership and meeting schedule.

Enquiries regarding Senate are handled by the Secretariat and should be directed to the Manager, University Governance, at secretariat@tru.ca or by phone at 250-828-5318.

Planning Council for Open Learning

The Planning Council for Open Learning has a legislated set of responsibilities for directing the affairs of the Open Learning division of the institution and setting policies in accordance with the Thompson Rivers University Act.

The Planning Council for Open Learning may advise or make recommendations to the board on the following:

- Matters concerning the educational mandate of the Open Learning division.
- The establishment, revision or discontinuance of courses and programs in the Open Learning division.
- Strategic direction for the Open Learning division, including its role as a system partner in the ongoing development and expansion of distance and online learning in British Columbia.
- Other matters at the request of the board.

The Planning Council for Open Learning must report any resolutions it makes to the university council.

For more information on the Planning Council for Open Learning, including membership and meeting schedule, please see: Planning Council for Open Learning.

Administration and Leadership

Office of the President and Vice-Chancellor

President and Vice-Chancellor
Dr. Brett Fairbairn
BA, (U Saskatchewan), BA (Hons First Class) (Oxford U, UK), PhD, (Oxford U, UK)

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Director of Development, Indigenous Education and the School of Trades and Technology

Director of Development, Annual Giving
Diana Major

Director of Development, Planned Giving
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Director of Development, Faculty of Science

Director of Development, Faculty of Law
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BA (U Alberta)

Director of Development, School of Business and Economics
Kim Cassar Torreggiani

Director of Development, School of Nursing
Marilyn Campell Davis

Director of Development, Faculty of Education and Social Work, Faculty of Arts
Bradley Bostock

Academic Schedule and Important Dates 2019-2020

Semesters

Campus-based academic, career/technology, and university preparatory programs operate on the following semesters unless otherwise specified in Calendar program descriptions.

Fall Semester	Winter Semester	Summer Semester
September to December	January to April	May to August

Academic Dates

Term/Session	Fall	Winter	Year Courses (Fall & Winter)	Spring & Summer		
				SS1	SS2	SS3
Start of term	September 3, 2019	January 6, 2020	September 3, 2019	May 4, 2020	June 22, 2020	May 4, 2020
End of term – Includes Exam Period	December 14, 2019	April 25, 2020	April 25, 2020	June 19, 2020	August 7, 2020	August 7, 2020
Class Dates						
Orientation Day	September 3, 2019					
Start of classes	September 4 2019	January 6, 2020	September 4, 2019	May 4, 2020	June 22, 2020	May 4, 2020
Mid-semester break		February 17-21, 2020	February 17-21, 2020			
End of classes	November 29, 2019	April 10, 2020	April 10, 2020	June 19, 2020	August 7, 2020	August 7, 2020
Registration and Withdrawal Dates						
Registration Opens	June 2019	June 2019	June 2019	March 2, 2020	March 2, 2020	March 2, 2020
End of course change period (add/drop/audit, late registration)	September 18, 2019	January 17, 2020	September 18, 2019	May 8, 2020	June 26, 2020	May 15, 2020
Last day to withdraw from a semester course with no academic penalty	October 25, 2019	February 28, 2020	January 24, 2020	May 22, 2020	July 10, 2020	June 26, 2020
Exams & Grades						
Start of examinations	December 2, 2019	April 14, 2020	April 14, 2020	June 12 , 2020	July 31, 2020	July 31, 2020
End of examinations	December 14, 2019	April 25, 2020	April 25, 2020	June 19, 2020	August 7, 2020	August 7, 2020
Final day for faculty to submit semester grades (as per Policy ED 3-11)	December 20, 2019	May 1, 2020	May 1, 2020	June 26, 2020	August 14, 2020	August 14, 2020
Tuition & Refund Dates						
Due date for tuition and fee payment	August 30, 2019	January 3, 2020	August 30, 2019	May 1, 2020	June 22, 2020	May 1, 2020
End of 100% refund period (minus commitment fee or tuition deposit) (Domestic students only)	September 18, 2019	January 17, 2020	September 18, 2019	May 8, 2020	June 26, 2020	May 15, 2020

Important Dates & Deadlines

Deadline to apply to graduate for Fall Convocation	July 31, 2019
International Student Orientation - Fall	August 26 – 30, 2019
Deadline for Program Advisors to submit lists of eligible graduates for Fall Convocation	Four weeks prior to Convocation
Fall scholarship & bursary application deadline	September 20, 2019
Fall Convocation – Kamloops	October 11, 2019
International Student Orientation - Winter	January 2 – 4, 2020
Winter scholarship & bursary application deadline	January 17, 2020
Campus-wide Professional Development Day	February 19, 2020
Deadline to apply to graduate for Spring Convocation	March 31, 2020
Deadline for Program Advisors to submit lists of eligible graduates for Spring Convocation	Four weeks prior to Convocation
Spring Convocation - Kamloops	June 3, 4, 5, 2020

Recognized Statutory Holidays (University Closed)

Labour Day	September 2, 2019
Thanksgiving Day	October 14, 2019
Remembrance Day	November 11, 2019
Winter Break	December 25, 2019 – January 1, 2020
BC Family Day	February 17, 2020
Good Friday	April 10, 2020
Easter Monday	April 13, 2020
Victoria Day	May 18, 2020
Canada Day	July 1, 2020
British Columbia Day	August 3, 2020

Admission and Registration

Admission

How to apply

Prospective students apply online for all TRU Programs at tru.ca/apply. Submission of an online application requires a credit card to pay the application fee. Applications can also be paid for in person or, mailed in.

Some TRU programs require applicants to provide additional information as part of the selection process. All documents provided as part of the application for admission become the property of Thompson Rivers University. If you are not registered for three consecutive semesters and you are not on an approved leave, you will be required to reapply to the University.

Application fee

Canadian citizen or permanent residents: $29.83

International Applicants: $100.00

Domestic Juris Doctor-Law Applicants: $114.85

International Juris-Doctor Law Applicants: $143.51

Please note *applications are not processed until the application fee is received.*

Application and Supporting Document Deadlines for Canadian Citizens and Permanent Residents

TRU begins accepting applications for most programs on October 1 for the following fall (September) intake.

Application for many trades programs are accepted throughout the year.

Students applying to limited admission programs are encouraged to complete their application early to ensure seat availability.

Application deadlines that fall on a weekend or a statutory holiday will be extended to the next working day.

Program	Deadline
Arts Business Administration Computing Science Fine Arts Science	March 1 Applications received prior to March 1 will be guaranteed an admission decision and an earlier course registration date. These programs continue to accept applications until the start of each semester.
Nursing	January 31
Social Work	January 31
Law	February 10
Animal Health Technology (Campus) Animal Health Technology (Distance)	February 15 September 30
Education (Elementary) Education (Secondary)	February 15 February 15
Practical Nursing Diploma	May 1
Respiratory Therapy	February 1
The programs listed above may continue to accept applications as space permits. Please contact admissions@tru.ca for specific program application extensions. Note: completed applications for competitive admission programs which are received before the application deadline may be considered for early review.	

Supporting Documents Deadline

The supporting document deadline, including high school and post-secondary transcripts, is within 10 working days of submission of the application deadline.

Admission Requirements

Student admission to TRU is governed by policy ED 1-0 Student Admission. The **PDF** version published online is the official version. In the event of a discrepancy between the official policy and the Calendar, the official policy is authoritative.

General Admission Requirements

Unless otherwise stated within a program's admission requirements, TRU's general admission requirements include:

- Completion of BC Grade 12 or equivalent.
- English 12/English 12 First Peoples with a minimum of 73% or equivalent or an acceptable English language placement result.

Note: Applicants who are missing requirements for admission, including high school English, math or science, may begin their first-year university studies while taking University Preparation (UPREP) courses to meet these requirements.

English Language Requirements

English is the primary language of instruction at TRU. Applicants are expected to be able to demonstrate a minimum level of English language proficiency. TRU will verify that applicants meet language proficiency requirements prior to admission.

If you don't meet your program's English Language requirement, you may meet and/or obtain the equivalency through one of our English Language development programs and/or approved English placement assessment.

Additional information is available through the Assessment Centre tru.ca/assessment and, the University Preparation Department: tru.ca/uprep.

Canadian Secondary School Course Equivalents:

tru.ca/equivalents

Types of Admission

Depending on the program you are applying to, qualified applicants are admitted based on three admission processes.

Open Admission: Admission decisions are made on a first-applied basis using the date by which the application was received.

Limited Admission: Admission decisions for programs with limited seats are made on a first-qualified basis using the date by which applicants have met all of the admission requirements.

Selective (competitive) Admission: Admission decisions are made on a competitive basis. Applications will be assessed using criteria that may include an admissions average, interviews, questionnaires, and letters of reference. These programs have a limited number of seats and a set application deadline. Applications may continue to be accepted after the application deadline if space permits.

Program Specific Admission Requirements

In addition to meeting the general admission requirements stated above, applicants must ensure they meet the program's specific admission requirements which may include:

- specific course prerequisites
- minimum course grades and grade point averages
- supporting documentation which may include letters of intent, reference letters and questionnaires
- pre-testing
- volunteer hours
- interviews

International Student Admissions

International General Admission Requirements

In addition to meeting all TRU Admission requirements, international applications must:

- Have a valid student permit from the Government of Canada.
- Have been formally admitted to a TRU Program before arrival.
- Possess valid and adequate medical insurance coverage.

International English Language Proficiency – Requirements for Academic Study

Applicants are required to meet minimum English language proficiency requirements for direct entry into academic programs.

Students may meet this condition by providing an acceptable English language proficiency test score (TOEFL, IELTS, etc.) or by achieving an acceptable score on TRU's English Placement Test (EPT). Students are strongly encouraged to complete an acceptable test prior to arriving to improve academic planning and course selection options. In order to verify all English language proficiency test scores, students must have an official copy of the test score sent directly to TRU International Admissions (iapply@tru.ca) from the testing agency. Copies of test scores provided on arrival will not be accepted.

Students who fail to achieve the results for direct entry into academic programs will be placed in the appropriate level of English language study as indicated below.

TRU Placement	TOEFL		IELTS	MELAB	CanTEST	CAEL
	Internet -Based	Paper-Based				
Direct entry to academic programs	88+ with no section below 20	570+ TWE 4.5+	6.5+ with no bands below 6.0	81+	4.5+ with no component score below 4.0	Overall 70+ with no sub-test below 60
Direct entry into Level 5 ESL	80+	550-569 TWE 4.0+	6.0+ with no band below 5.5	77+	4.0+ with no component score below 4.0	Overall 60+ No sub-test below 50
Direct entry into Level 4 ESL	71+	530-549	5.5+ with no band below 5.0	74+	4.0+ with no component score below 3.5	Overall 50+ No sub-test below 40
Direct entry into Level 3	61+	500-529	5.0+	69+	3.5+	Overall 40+

*A student must meet or exceed the required level on all aspects to be at any specific level (for example, for the TOEFL, direct entry students must have an overall score of 88+ and all sections at least 20). When sub-scores are used, a good mark in one area will not compensate for a poor mark in another. It is recommended that when students who do not meet the requirements for direct entry write the TRU placement test to determine their appropriate placement in English as a Second Language.

Japanese English Language Proficiency Test — STEP

TRU will consider the STEP First Grade for direct entry into academic programs. We will also consider STEP Pre-First Grade Level as equivalent to TOEFL 500+ for placement purposes.

Common European Framework of Reference for Languages

TRU will consider the CEF C1 and C2 for direct entry into academic programs. We will also consider CEF B2 and B2+ as equivalent to the IELTS 5.0+ for placement purposes.

Cambridge ESOL

TRU will consider the CAE (Certificate in Advanced English) and CPE (Certificate of Proficiency in English) for direct entry into academic programs. The FCE (First Certificate in English) will be considered at the IELTS 5.0+ for placement purposes.

Pearson Test of English

TRU will consider the Pearson Test of English (PTE) for direct entry into academic programs with an overall score of 58 or greater and no communicative skills test scores below 55.

For more information on English language proficiency testing and requirements please visit: tru.ca/iapply

International Student Application Deadlines

Semester	Deadline
January	October 1
May	February 1
September	May 1

Late applications will be considered if space is available.

Note: International Applicants

In addition to meeting application deadlines and admission requirements for specific programs, International applicants should be aware of study permit processing times.

Further information about International Admissions can be found at: tru.ca/iapply.

Other Admission Categories

Mature Students

Mature students are defined as any applicant of at least 19 years of age who has not graduated. Students classified as mature may have the grade level admission requirement waived, for example grade 11, grade 12, etc., but they are still required to meet a program's other admission requirements and all course pre-requisites.

Dual admission agreements

TRU has dual admission agreements with various high schools and colleges which may allow students to be admitted to the high school/college and TRU, at the same time.

Canadian Out of Province High School Students

Applications from all provinces are treated equally, and fees are the same for all Canadian students. See the out of province admission requirements for program specific requirements.

Credit for Previous Learning

Transfer Credit

Students with previous education or training, may be eligible for credit toward their TRU program. Academic transfer credit is assessed by Enrolment Services at the time of admission, and upon receipt of official transcripts and any required supporting documentation.

For vocational and career technical programs the Department Chair evaluates, on request, official transcripts for work completed at another post-secondary institution and grants transfer credit towards programs.

Prior Learning Assessment and Recognition (PLAR)

PLAR is a process used to determine if credit can be awarded for knowledge and skills already acquired. This may include learning that took place outside of the formal, post-secondary system.

PLAR provides students with the opportunity to have such learning assessed and recognized in the form of academic credit toward the requirements of a Thompson Rivers University credential.

Advanced Standing Programs

TRU recognizes and awards credits to both Canadian and International students who complete enriched secondary school programs. Students who successfully complete courses in the following programs can apply to have credits awarded for specific courses at TRU:

Advanced Placement (AP) Exams through the College Board

Transfer credit is granted for approved subjects passed with a grade of a 4 or higher. Official transcripts must be provided from the College Board.

BC Transfer Guide for Advanced Placement

General Certificate of Education (GCE)

Transfer credit is granted for approved A-level courses passed with a grade of an A or B. Official transcripts must be provided to receive transfer credit. Check the BC Transfer Credit Guide to see the specific TRU credit for the identified AP and IB courses.

For more information please go to tru.ca/enrichedprograms

International Baccalaureate Diploma (IB)

The International Baccalaureate diploma is accepted for admission to TRU.

Students can present specific course prerequisites at the standard or higher level.

Transfer credit will be granted for higher level courses completed with a score of 5 or higher. Students have the option to decline the transfer credit if they wish to complete the course(s) at the university.

BC Transfer Guide for International Baccalaureate

Registration

Registration is the process of formally assigning and recording the enrolment of a student, usually in a course or courses. In order for a student to register in courses, they must be admitted to Thompson Rivers University or be a continuing student. A continuing student is defined as someone that has had academic activity within the past academic year. Admission to the university does not guarantee course selection (registration).

Registration for fall (September) and winter (January) begins in June. Registration for summer (May) begins in March.

How to register in courses

In myTRU, students can add, change, waitlist, or drop courses in the **course registration** section. Students who are enrolled in programs with supported registration will be notified by Enrolment Services and they may not be able to access online registration due to their program of study.

Registration Times

Students are assigned a registration date and time before registration begins. On, or after the assigned registration date and time, students may register in courses. A student's registration priority date can be found on their myTRU account. Detailed information on how to register in courses is available at: tru.ca/registration.

Prior to registration, students are required to have paid a tuition deposit to the university. Please be aware that there are important deadlines after which your transcript may be affected and none, or only a portion of, your tuition may be returned. Further information regarding tuition and fee deadlines and tuition deposits is available at tru.ca/tuition.

Course Waitlists

Most (not all) undergraduate courses offer the ability for students to place themselves on a course waitlist when a section is full. Students can place themselves on waitlists up until the registration deadline for that semester (see Important Dates and Deadlines). Students can be waitlisted for more than one course, but they cannot be listed on multiple waitlists (sections) for the same course.

Seat offers for waitlisted courses are made through email notification to the TRU email account. Students are responsible for checking their TRU email frequently as the time duration for taking up the seat offer is short and the offer must be acted upon quickly. If you do not register within the allocated time, you will be removed from the waitlist and the seat will go to the next student on the waitlist.

Being on a waitlist is not the same as being registered in a course, and does not guarantee that a seat will become available.

IMPORTANT: *If you are still on a waitlist for a course at the start of the semester, you are expected to attend the first two weeks of the course to keep your spot on the waitlist. If you are not able to attend the first two weeks of class, you must make prior arrangements with the course instructor. Students may be dropped from the class roster/waitlist for non-attendance.*

Student Responsibility

Students are responsible for the accuracy of their registration in courses and for ensuring the registration meets all course prerequisites and co-requisites. They are also responsible for confirming the courses they have chosen conform to their individual program requirements and university regulations.

Tuition and Fees

TRU's tuition and fees are set and reviewed annually by the Board of Governors and are subject to change. For the most up-to-date tuition and fee details, please visit tru.ca/tuition.

Tuition deposit

Students are required to pay a tuition deposit prior to registration for fall and winter semester courses.

The tuition deposit is applied as a payment toward tuition fees.

Canadian Citizens and Permanent Residents:

- $300 tuition deposit for **open programs**.
- $300 tuition deposit for returning students to limited or selective programs.
- $500 for new students to limited or selective programs.

International students:

- Undergraduate programs (fall/winter) - $7,107
- Undergraduate programs (summer) – full tuition
- Post-baccalaureate (fall/winter) - $5,000
- Post-baccalaureate (summer) – full tuition
- Graduate programs (except continuation and extension semesters) - $5,000
- Graduate programs (thesis/project continuation and extension semesters) – full extension fees

Sponsored students

Sponsored students are not required to pay the tuition deposit before registration provided a tuition sponsorship application has been approved by TRU before the time of registration.

University and Employment preparation (Adult Basic Education) English as a Second Language students

Domestic BC students admitted to the University and Employment Preparation program are not required to pay a tuition deposit. The Adult Basic Education Program and English as a Second or Additional Language is tuition free for domestic BC students. Students admitted to other preparatory programs and students admitted to a post-secondary program who are enrolling in preparatory courses who have an approved *Adult Upgrading Grant* application for the current term are not required to pay a deposit.

How to pay

TRU does not accept cash for tuition payments. Options for paying tuition include:

- Online through myTRU
- Online banking. Your TRU student number is your account number; choose TRU as Payee.
- At the Campus Cashier:
  - **In person -** payments can be made by wire, cheque, money order, debit card, Visa, MasterCard or American Express. The Campus Cashier is located on the first floor of the Old Main, Room 1614. Hours are 10 a.m. to 2 p.m.
  - **Telephone** - payments can be made using a credit card by calling 250-371-5646 during regular business hours.
  - **Mail** – payments made by cheque or money order can be mailed to the Campus Cashier.
    Thompson Rivers University
    Campus Cashier
    805 TRU way, Kamloops, BC V2C 0C8

Payment deadlines

The balance of tuition and/or fees owing are due by the following dates: (tru.ca/fees)

Undergraduate and Graduate programs:

- **Fall semester:**
  - Canadian/permanent residents: August 30
  - International students: Deposit due upon registration. Balance of fees due August 30
- **Winter semester:**
  - Canadian/permanent residents: January 3
  - International students: Deposit December 1. Balance of fees due January 3
- **Summer semester:**
  - Canadian/permanent residents:
    Session 1 and 3: May 1
    Session 2: June 22
  - International students: Deposit due upon registration: Balance of fees due May 1 for session 1 and 3, and June 22 for session 2

Trade foundation and apprenticeship programs:

- **Foundation programs:** Fees are due in full on or before the first day of classes.
- **Apprenticeship programs:** Fees must be paid in full at the time of registration.

Late Payment of Tuition and Fees

Students whose tuition and/or fees have not been paid in full by the payment deadline for their program or course will be assessed a $75 penalty per term and charged 2% interest monthly. Students with an overdue account may have any registrations in a current and/or subsequent semester cancelled. In addition, all services such as course changes, transcripts, online access to course changes, and final exam registration and course extensions (OL) will be withheld. Students placed on financial hold will only be permitted to access services and register into subsequent semester courses once full payment of the balance owing has been made. Exceptions will be made for students who have an approved fee deferral.

Reinstatement

In order to be reinstated into courses in a current semester after being deregistered for non-payment, students will be assessed a reinstatement fee of $179.17. Reinstatement can occur only up to the reinstatement dates outlined below, and upon payment of all outstanding fees, penalties and interest as well as the reinstatement fee. Students must advise Enrolment Services of the payment so registration can be reinstated.

Last day for reinstatement:

Fall semester – November 30	Winter semester - April 1

Refunds

Refunds must be requested through the Registrar's Office before a refund is processed. tru.ca/fees

Refund requests are usually processed within 4 to 6 weeks of receipt of the request. If your request is approved you will receive a cheque in the mail, or a refund will be applied to the credit card used for payment.

Canadian citizens/permanent residents

Undergraduate and Graduate programs

Open programs and returning limited or selective programs ($300 tuition deposit)

1. Students who withdraw for the fall semester before **August 1** will receive a 100% refund of fees paid.
2. Students who withdraw for the fall semester after **August 1 until the end of the second week of instruction** will receive a 100% refund of fees less the full $300 tuition deposit.
3. Students who withdraw for the winter semester before **December 1** will receive a 100 % refund of fees paid for the winter semester.
4. Students who withdraw for the winter semester after **December 1 until the end of the second week of instruction** will receive a 100% refund of fees paid for the winter semester less the full $300 tuition deposit.
5. Students who withdraw **after the end of the second week of instruction (course change period)** in either the fall or winter semester will not receive a refund.

First-time limited or selective programs ($500 tuition deposit)

1. Students who withdraw for the fall semester before **August 1** will receive a 100% refund of fees less the $200 non-refundable portion of the tuition deposit.
2. Students who withdraw for the fall semester after **August 1 until the end of the second week of instruction** will receive a 100% refund of fees less the full $500 tuition deposit.
3. Students who withdraw for the winter semester before **December 1** will receive a 100% refund of fees paid for the winter semester less the $200 non-refundable portion of the tuition deposit.
4. Students who withdraw for the winter semester after **December 1 until the end of the second week of instruction** will receive a 100% refund of fees paid for the winter semester less the $500 tuition deposit.
5. Students who withdraw **after the end of the second week of instruction (course change period)** in either the fall or winter semester will not receive a refund.

Trade foundation programs:

1. Withdrawal a minimum of **30 days prior to the start** of the program will result in a $200 partial refund of the $500 tuition deposit paid.
2. If the withdrawal takes place **less than 30 days before the start** of the program, no portion of the tuition deposit will be refunded.
3. If the withdrawal takes place **within 14 days of the start** of the program, a full refund of fees less the $500 tuition deposit will be provided.
4. If the withdrawal takes place **after 14 days into a seven-month or less program** — no refund.
5. If the withdrawal takes place **after 14 days into an eight-month or longer program**, no refund of fees for the first term will be provided.

Apprenticeship programs:

1. Withdrawal a minimum of **30 days prior to the start** of class will result in a full refund.
2. If the withdrawal takes place **less than 30 days before the start** of class or after the start of class — no refund.

Refunds for International students

Unpaid fines, outstanding fees, and administrative fees ($200 CDN) owing to TRU will be deducted prior to any approved deferral or refund.

Students required to withdraw or who are not admitted to TRU due to a violation of university policy are not entitled to deferrals or refunds.

All fee payment deadlines for international students are firm. It is the responsibility of the students to familiarize themselves with important deadlines and to plan and budget accordingly.

New international applicants

Tuition fees, deposits, and other fees for the first semester are non-refundable and non-transferable.

All new international applicants who receive a visa and study permit (including students who have been approved for a deferral) and a Letter of Acceptance issued by TRU are expected to begin their studies at TRU in the designated semester noted in their original Letter of Acceptance.

New students who can provide official documentation from IRCC (Government of Canada) indicating that their visa and/or study permit application was denied are eligible for a full refund of tuition and applicable fees, minus an administrative processing charge as per the published fee schedule.

TRU reserves the right to contact IRCC to verify the status of a visa and/or study permit application and/or to verify the contents of a refusal letter.

New international applicants who are eligible for a tuition refund (less the non-refundable administrative fee) should submit their refund request in writing prior to the course change or course withdrawal deadline. The request must include official documentation from IRCC. Refund requests will be processed in the order they have been submitted and will be completed pending verification of accompanying documentation.

Continuing and returning International students:

- 100% refund of required deposit 4 weeks prior to first day of classes (minus administrative processing charge).
- 50% refund of required deposit after 4 weeks prior to first day of classes (minus administrative processing charge).
- 50% refund to students who have obtained a visa extension letter from TRU and request a refund prior to the first day of classes (minus administrative processing charge).
- Tuition fees will not be refunded after first day ofclasses.

Fee deferrals

Student Awards & Financial Support is responsible for the approval of fee deferrals (i.e. deferring your fee payment due date).

Canadian citizens/permanent residents

Students who meet **either** of the following two conditions will have their tuition and fees deferred automatically.

1. Who have been approved for full-time or part-time student loans/grants through StudentAidBC
   - with TRU named as the institution **and**
   - prior to the start of classes, **and**
   - have a loan grant total greater than their total fees owing**.**

2. Have accepted an offer of scholarship or award which fully funds all tuition and fees, and are meeting all the conditions of the award (sufficient enrolment, athletic eligibility, etc.)

Manual fee deferrals will also be provided to students who can document assignable loan and grant funding from a province other

than BC and meet the above conditions. Contact Student Awards & Financial Support. Split enrolled students with government funding confirmed by a school other than TRU are not eligible for a fee deferral.

Students applying for student loans are strongly encouraged to apply two months in advance of their fee payment/fee deferral deadline in order to ensure the loan is fully approved prior to the start of classes.

New international applicants, fee deferral

New international applicants are eligible for a deferral. Deferrals will normally be granted on a one-time basis only. All deferrals will expire one calendar year from the start date noted in the original Letter of Acceptance. If a student's request for a deferral is approved, TRU will hold and retain 100% of all paid tuition and other scheduled fees and apply these to the new semester. All tuition paid to TRU will be forfeited if the applicant does not register and begin classes within one calendar year of the start date noted in the original Letter of Acceptance.

Withdrawals

When and why should a student withdraw?

Students that believe they are not going to complete a course successfully may be able to formally withdraw to avoid a failing grade.

Students can withdraw from a course after the add/drop deadline up to the withdrawal deadline without a refund. A grade will not be issued, but a "W" will appear on their transcript. This will not affect their grade point average (GPA).

Students who miss the withdrawal deadline will receive a grade of 'F' or 'DNC' unless they meet the criteria for withdrawal in extenuating circumstances.

Withdrawal in extenuating circumstances

Prior to the last day of the term students who completely withdraw from all of their courses due to extenuating circumstances may be refunded a portion of their tuition fees.

If you wish to withdraw due to extenuating circumstances, please refer to Withdrawals Policy ED 3-0. Submit a completed withdrawal in extenuating circumstances form to Enrolment Services at es-supervisor@tru.ca.

Additional fee information

Special status fee payers:

Senior Citizens

Older adults (age 65 years or older) are not charged tuition fees if they are not displacing a fee paying student. All other non-tuition fees including Student Union fees apply.

Auditors

Auditors are required to pay all fees and charges.

Tuition Fee Reimbursement (Tuition Fee Waiver)

TRU staff, faculty and administration, or eligible family members are eligible to apply for Tuition Reimbursement. Tuition reimbursements apply to undergraduate campus student fees. As a one-year pilot initiative, beginning Jan 2019, employees of TRU may qualify for OL and PLAR undergraduate course tuition reimbursement. Fees must be paid first, then students will be reimbursed the tuition portion of their fees if they are not displacing a fee paying student. All other non-tuition fees will be assessed. Tuition reimbursements must be applied for each semester. Please contact Human Resources for more information.

Additional TRU Fees

All TRU students, other than those enrolled only in courses through the Open Learning Division, must, as a condition of enrolment at TRU, pay the Ancillary fee, the Athletic and Recreation fee, the Comprehensive University Enhancement fee, Building Fund fee and applicable Lab/Studio fees.

Sponsorship letter from sponsoring agency

For more information on Tuition Sponsorships, visit tru.ca/sponsorship

Note: Registration is not complete until all fees are paid.

Additional Administrative Charges (subject to change)

For a complete listing of all TRU administrative charges please see Tuition and Fee Details.

Research and Graduate Studies

TRU offers a unique blend of learning opportunities for graduate students. For more detailed information on our graduate programs, and for program specific application information, please visit tru.ca/gradstudies and individual program pages within this academic catalog.

General Admission Requirements

Applicants must meet the following minimum standards for master's degrees:

- A three or four year Canadian baccalaureate or an equivalent degree from a recognized institution. Degrees and grades from international applicants will be assessed on their equivalency to those of TRU.
- A minimum grade point average of 3.0 (on a 4.33 point scale) in the last two years of an undergraduate degree (60 out of 120 credits), or the equivalent of two years of full-time study.

Confirm with the individual master's program section of the Academic Calendar for specific requirements that may exceed these standards.

English Language Requirements

The language of instruction at TRU is English. Students whose first language is not English and who did not complete a baccalaureate degree at an English-speaking university will be required to demonstrate the following minimal standards of English language proficiency by presenting one of the following indicators of English competency:

TOEFL (paper based) **TOEFL** iBT	570 with a TWE of 4.5 or higher 88+ with no section below 20
IELTS	6.5+ with no bands below 6.0
CAEL	70+ with no subtest below 60
ENGL 1100 and CMNS 1290	B or higher
Pearson Test of English (PTE)	58+ with no communication skills test scores below 55

Please confirm with the individual graduate program for specific English language requirements that may exceed these standards.

Admission with Special Consideration

In exceptional circumstances, a student may be admitted who does not meet all the admission standards when there is significant professional experience relevant to the proposed area of scholarship, and the student provides evidence of undergraduate degree equivalency and ability to successfully undertake graduate studies. A qualifying semester may be required. At TRU, equivalency to a degree can only be achieved through Prior Learning Assessment and Recognition (PLAR). For more information on how to apply for PLAR, please see tru.ca/plar.

Application

Application Deadlines

Application deadlines may be extended until the program is full. **Please confirm with the individual graduate programs for specific application deadlines.** *Note: Completed applications for graduate programs received before the application deadline may be considered for early review.*

Application Procedure

If you have further questions after selecting your graduate program, please consult a graduate program academic advisor. Please refer to individual graduate program web pages for contact information.

Complete the online application (including payment of the application fee). Once you begin an online application, you can save it and return as often as you like prior to your final submission.

Supplemental Application Documentation

Once the online application has been received and the application fee paid, students will receive an email from Graduate Admissions, gradadmissions@tru.ca, or, igrad@tru.ca , with instructions on how to submit the required documents needed to complete your application.

Please refer to individual graduate program web pages, or sections within this academic calendar, for program specific required supporting admission documentation.

All required supporting admission documentation must be received by the Graduate Admissions office in order for your application to be considered complete and ready for processing.

Ensure that all required documents are included to complete the application and submit to graduate admissions.

Submit required supporting admission documentation by email to:

- Domestic Graduate Students**:** **gradadmissions@tru.ca**
- International Graduate Students: **igrad@tru.ca**

Or,

By mail, or courier to:

GRADUATE ADMISSIONS
Thompson Rivers University
Old Main 1120
805 TRU Way,
Kamloops BC, Canada, V2C 0C8

(International students: please indicate "**International Graduate Admissions**" in the address line).

Graduate Studies Admission

Graduate Admissions receives the completed admission package.

It is the student's responsibility to ensure that the application is complete. Once the application package is complete with all supporting documents, and transcripts have been verified, Graduate Admissions will forward the application package to the Chair or the appropriate Graduate Program Coordinator.

Individual Graduate Program Committees consider all applications and make admission decisions, which may include special conditions or considerations.

The Graduate Program Committee recommends acceptance based on admissions criteria stated by the program; fit within the program; enrolment numbers; availability of a supervisor with the appropriate interest and expertise (as applicable).

All applicants will be informed of the admission decision. If admitted for graduate studies, students will receive a Letter of Acceptance by email from the Graduate Admissions Office.

Admission Deferrals

Admission deferrals may be considered, and will be determined based on unique situations. Individual graduate programs are responsible for deferral decisions. Students should consult the relevant Graduate Program Coordinator to discuss deferral. The Graduate Program Coordinator will inform the student and Graduate Admissions of their decision.

Academic Status

Normally, students in graduate programs are considered full-time when they are enrolled in 6 credits or more per semester, and are considered part-time when enrolled in fewer than 6 credits per semester. For the purposes of tuition and fees, graduate programs with program-based tuition (rather than per-credit tuition) may have varying definitions of full- and part-time studies.

See ***individual master's program information*** for details.

Residency Requirements

At least 50% of coursework must be completed through TRU, and all thesis, project or culminating creative work must be completed under the supervision of a TRU Graduate Supervisor. It is recommended that graduate students normally complete a majority of their master's degree at TRU in order to gain maximum benefit from the faculty, student colleagues, facilities and other resources. *Please confirm with the individual graduate program, as they may have requirements that exceed these standards.*

Letter of Permission

After starting their master's degree, students may transfer up to 12 credits from another recognized university with the advanced written approval of their supervisor and Graduate Program Coordinator. Complete a Letter of Permission form.

Program completion times

There is a five year maximum time for completing a master's degree. Programs vary in design and standard completion time. If students are unable to follow the program schedule and complete within the normal timeframe for the program, please discuss this with the program specific Graduate Program Coordinator.

Absences and Leaves of Absence

Students are generally expected to be in attendance for all aspects of the master's degree program including courses, seminars and other activities as applicable. Students missing any of these activities for a short period of time, should inform the instructor(s). It is the students' responsibility to get caught up on any missed material.

Short-term absences: less than three weeks

Discuss this with the program specific Graduate Program Coordinator prior to commencing the leave, or as soon as possible thereafter, to determine any impact on studies.

Long-term leaves: greater than three weeks

Leave absence is usually granted in four month blocks to coincide with the usual registration terms. These absences require the approval of the supervisor, Graduate Program Coordinator and the Office of Research and Graduate Studies, ideally prior to commencing the leave.
Normally, any student financial support is suspended during a leave, and may be reinstated upon return depending upon any restrictions to the funding. Possible reasons for requesting a long-term absence may include; compassionate leave, medical leave, parental leave.

Documentation required for longer-term leaves

Leave of Absence requests and appropriate documentation (i.e. a letter from the student explaining the circumstances, a letter from physician or other qualified professional), should be submitted to Graduate Admissions

Tuition fees are not assessed during leaves. Time taken on a Leave of Absence is not included in the time period allotted for completion of the degree, and degree completion deadlines will be adjusted accordingly. All other program requirements and academic unit expectations remain the same.

Students cannot undertake any form of academic work or use any of the university's facilities during a period of leave.

Academic Standing

Graduate Student in Good Academic Standing

Minimum pass for students in a master's degree program: a student who receives a B- or lower in two or more courses may be required to withdraw regardless of their grade point average unless the program recommends otherwise. Individual programs may require a higher minimum passing grade.

Probation

If GPA falls below 2.67 on a 4.33 scale in a term, students are placed on academic probation. Individual graduate programs may set higher standards.

Dismissal

Students with a GPA of 2.67 on a 4.33 scale or lower in two consecutive terms, may be dismissed from the program. This action requires consultation with the Graduate Program Coordinator, the relevant Dean, and the approval of the Associate Vice-President, Research and Graduate Studies.

Appeal

The decision to appeal the grade may be appealed through the Student Academic Appeal Process (Policy ED 4-0).

Graduate Work: Thesis, Project or Creative Work

The master's degree program may include graduate work, in the form of a thesis project or production of a creative work. More information about a graduate thesis can be found at: thesis procedures.

The graduate work is a significant academic experience of a master's degree program that is based on original research and inquiry, and contributes to the body of knowledge, and becomes part of TRU's library holdings and the Canadian Archives. The work may be purely academic and/or applied, leading to the development of improved policy, practice, or products. Through the process of formulating and pursing the inquiry students have the opportunity to demonstrate academic rigour, creativity, originality, and insightfulness, and hone their ability to explore, develop, critically analyze, synthesize, interpret, and communicate ideas and concepts.

Ownership of Data and Information

Respect the university's policies regarding intellectual property and the ownership of data and information. As applicable, follow the contractual agreements with other agencies or individuals regarding the ownership of data, information, and equipment. If appropriate, upon finishing the program, provide the supervisor with documentation that allows others to continue the research.

International Students

International Student Support

TRU is a leading destination in Canada for international students. There are many staff members who provide dedicated support to international students. International Student Advisors arrange for homestays, airport reception, student orientation, and provide ongoing support for students throughout their stay at TRU; the International Admissions team works closely with students to ensure they receive the necessary application and acceptance information and documentation and; International Academic Advisors, assist students with program planning and course selection.

TRU World has an extensive and dynamic activity program (LEAP) that offers many activities per semester. The goal of our activity program is to ensure that all students have an opportunity to have fun, meet new friends and engage with all the great aspects of your new home – Kamloops!

More information about support services for international students can be found at **tru.ca/world.** Contact us at any time with your questions by email to welcome@tru.ca.

Students may also contact a Marketing Services Representative in their country or region directly.

International Student Admissions

TRU's dedicated International Admissions Officers ensure timely and professional admissions processing and registration assistance. Contact us for information on any TRU programs, assistance in preparing your application, or to submit your application for admission to TRU.

Read more at **International Admissions.**

International Student Fees

For tuition and fees details, please refer to International Tuition Fees at: tru.ca/tuition.

Additional fee information for international students can be found at: tru.ca/truworld/future-students/dates-fees.

International students are required to be enrolled in a full-time program of study. The majority of undergraduate fees are based on a hybrid-flat fee of for up to 12 credits, with an additional cost of $515.00 per credit thereafter. Exceptions will be made for students who are in their final semester of their degree, diploma or certificate program and require fewer courses for completion.

During the summer semester, fees will be assessed on a per credit hour basis.

Post-baccalaureate fees are charged per credit at a fee of $592.25 per credit. Graduate programs have their own fee structure.

If an international student's status changes to that of a permanent resident status on/after the first day of classes in a semester, the change in tuition fees will occur the following semester. Students must provide documentation to support the status change.

TRU reserves the right to change fees and policies without notice

General Fees—Students may also be responsible for a variety of additional general fees. These fees will be calculated and added to the tuition amount for each semester as applicable.

Co-operative Education fees—tuition fees apply to each co-op work-term. Students will be notified of tuition charges when enrolled in a co-op work term.

Material/Lab Fees —where applicable to specific courses, students will be assessed lab/materials fees.

Students are also responsible for such expenses as medical insurance coverage, textbooks, housing, meals, recreational and transportation costs.

Refund procedures

Students should familiarize themselves with TRU's refund procedures prior to submitting payment for their studies.

Unpaid fines, outstanding fees, and administrative fees owing to TRU will be deducted prior to any approved deferral or refund. Students required to withdraw or who are not admitted to TRU due to a violation of university policy are not entitled to deferrals or refunds.

All fee payment deadlines for international students are firm. It is the students' responsibility to familiarize themselves with important deadlines and to plan and budget accordingly.

New international applicants
Tuition fees, deposits, and other fees for the first semester are non-refundable and non-transferable.

All new international applicants who receive a visa and study permit (including students who have been approved for a deferral) and a Letter of Acceptance issued by TRU are expected to begin their studies at TRU in the designated semester noted in their original Letter of Acceptance.

New students who can provide official documentation from IRCC (Government of Canada) indicating that their visa and/or study permit application was denied are eligible for a full refund of tuition and applicable fees, minus an administrative processing charge as per the published fee schedule.

TRU reserves the right to contact IRCC to verify the status of a visa and/or study permit application and/or to verify the contents of a refusal letter.

New international applicants who are eligible for a tuition refund (less the non-refundable administrative fee) should submit their refund request in writing prior to the course change or course withdrawal deadline.

The request must include official documentation from IRCC. Refund requests will be processed in the order they have been submitted and will be completed pending verification of accompanying documentation.

Continuing and returning International students:

- 100% refund of required deposit 4 weeks prior to first day of classes (minus administrative processing charge).
- 50% refund of required deposit after 4 weeks prior to first day of classes (minus administrative processing charge).
- 50% refund to students who have obtained a visa extension letter from TRU and request a refund prior to the first day of classes (minus administrative processing charge).
- Tuition fees will not be refunded after first day of classes.

Deferrals

New international applicants are eligible for a deferral. Deferrals will normally be granted on a one-time basis only. All deferrals will expire one calendar year from the start date noted in the original Letter of Acceptance. If a student's request for a deferral is approved, TRU will hold and retain 100% of all paid tuition and other scheduled fees and apply these to the new semester. All tuition paid to TRU will be forfeited if the applicant does not register and begin classes within one calendar year of the start date noted in the original Letter of Acceptance. Deferral must be requested in writing and sent to iapply@tru.ca.

Withdrawal

When and why should a student withdraw?

Students that believe they are not going to complete a course successfully, may be able to formally withdraw to avoid a failing grade. Students can withdraw from a course after the add/drop deadline up to the withdrawal deadline without a refund. A grade will not be issued, but a "W" will appear on their transcript. This will not affect their grade point average (GPA).

Students who miss the withdrawal deadline will receive a grade of 'F' or 'DNC' unless they meet the criteria for withdrawal in extenuating circumstances.

Withdrawal in Extenuating Circumstances

Prior to the last day of the term students who completely withdraw from all of their courses due to extenuating circumstances may be refunded a portion of their tuition fees. Withdrawals Policy ED 3-0

If you wish to withdraw due to extenuating circumstances, please refer to Withdrawals Policy ED 3-0. Completed Withdrawal in Extenuating Circumstances forms should be submitted to the Office of the Registrar.

Medical Insurance

All students must have adequate medical insurance while studying at TRU. Anyone residing in BC for longer than six months is required by law to enrol in BC Medical Services Plan (MSP) and pay premiums directly to the plan. However, there is a waiting period of three months before any newcomer to BC is eligible to enrol in MSP.

We automatically enroll all students with guard.me insurance for the first three (3) months in Canada. TRU World office will help with your MSP application during orientation. If a student does not have adequate medical insurance approved by TRU World for the waiting period of three months, it will be purchased through TRU World prior to course registration.

Extended Health and Dental Insurance

Extended health and dental insurance is mandatory for all TRU students in 9 credits or more, except exchange students and visiting students who are studying for only one semester. The extended health and dental plan provides coverage for expenses not covered by MSP, such as prescription drugs, vision, and dental care.

The fee is $248 per year and it will be charged to your account. It covers you from September 1 to August 31 each year. For more information, or to determine if you are eligible for an opt-out, please visit: trusu.ca/services/health-dental. For winter semester new student, you will need to opt-in at TRUSU counter in Campus Activity Centre on the first floor. Students registered only in the summer session are not eligible for the Plan.

International Students in Co-operative Education

International students may apply for the Co-operative Education option in their program of study if they meet the academic requirements for the particular program. Students are expected to maintain a good academic standing in their program in order to be considered for Co-op.

International students who wish to participate in a co-op program, must obtain a Social Insurance Number (SIN) and a work visa from Canada permitting them to work as a Co-op student. The Co-op Department and TRU World assist international students with proper documentation after admission to the Co-op program.

English Language Prerequisite for Academic Study

See: English Language Proficiency Requirements

English as a Second or Additional Language Certificate Programs

Students can earn one ESAL Core certificate and one or more ESAL Bridging certificate(s) by completing a specific set of courses for each option. Students must apply for their certificate(s) once they complete the necessary courses or the program.

Homestay Program

International students, particularly students in ESL program are encouraged to participate in the Homestay Program for at least the first semester of study.

Homestay is an excellent way for a student to get settled, learn about Canadian culture and practice the English language. Homestay families provide students with a private, furnished bedroom and all meals. Arrangements are made through the TRU World Homestay Program at: tru.ca/truworld/new-students/accomodation.

Policies, Regulations and Procedures

Institutional Policies

TRU policies and regulations are developed by the Board of Governors, Senate and Planning Council for Open Learning in accordance with their respective powers and duties as set out in the Thompson Rivers University Act. The President's Council develops operational policies. To view all current and archived Thompson Rivers University policies please visit Official Policies and Procedures. The archived policies page shows previous versions of policy (posted alphabetically by title).

For historical policies with end dates prior to January 2016, please see Historical Calendars Archive.

Additional Regulations and Procedures

Change of address

Students should notify Enrolment Services at records@tru.ca of any change in address, email address or telephone number. Change of contact information can also be completed through your myTRU account, by telephone or in-person. Students who are in receipt of government student assistance should also notify the appropriate provincial authority.

Course change deadlines | Add/drop/audit

Course changes may be made only as indicated in Academic and Important Dates located at the beginning of this calendar. Official course change forms must be completed by students and submitted to the Office of the Registrar before the deadline date. Students are urged to consult with Program and Academic Advisors and Student Loans before making course changes to confirm the appropriateness of changed courses for academic or diploma/certificate completion.

Course Exemptions

The Department Chair will evaluate, on request, other courses taken at TRU and, where appropriate, will provide course exemptions toward the student's new program. This assessment is completed by the Office of the Registrar for academic and degree programs.

Course numbering and definitions

Course reference number (CRN)

Each course has a course reference number (CRN). This number is helpful to know when registering for courses.

The first digit indicates year level at which the course is generally taken. Course numbers beginning with a "1" are generally first-year courses. Second year courses generally begin with a "2". Similarly, courses beginning with a "3" are third-year courses, and courses beginning with a "4" are fourth-year courses. Courses beginning with a 5 or 6 are graduate or masters level courses. The second and third digits in a course number further define a course. The fourth digit usually indicates whether a course is a campus course or an open learning course. Even numbers are used for campus courses, and odd numbers are used for open learning courses.

Vectoring (Hours of Instruction)

The numbers in brackets e.g. (3, 1, 3) indicate the weekly hours of contact for the course. The first digit inside the bracket indicates the number of lecture hours per week, the second digit indicates seminar hours per week, and the third digit indicates laboratory hours per week. For example, (3,1,3) would have 3 hours of lecture, 1 hour of seminar and 3 hours of laboratory per week.

Letters following the third digit indicate:

"L" indicates a lab fee will be charged and "P"a practicum.

Credit

The credits for a course are indicated following the course vectoring/hours of instruction.

See Course Description Overview.

Prerequisites

Students must meet the specific course prerequisites as set out in this calendar prior to registering in a course. Students who do not meet the course prerequisites may be asked to withdraw by the instructor.

Prerequisites are courses(s) or test(s) that must be successfully completed before studies begin in the desired course. Students with prerequisites in progress, can register even though their final grades have not been recorded.

Unless otherwise stated, successful completion refers to a passing grade. Some courses may specify higher minimum grade requirements for prerequisite courses.

Co-requisites

A co-requisite is a course that the student must take prior to or concurrently with the selected course if the co-requisite has not already been satisfactorily completed.

General Conduct

- TRU authorities do not assume responsibilities which properly rest with adults, parents or guardians. It is the policy of TRU to rely on the good sense of students to maintain standards of acceptable behavior.
- TRU prohibits any acts by students attending TRU, or by anyone else, which might cause injury to any person(s) or damage to TRU property.
- No liquor shall be brought onto TRU property except when authorized by the President, or his delegate, for approved functions.

Grade Point Average

Grade Point: A numerical value given to an alphabetical letter grade used in assessment of academic performance.

Grade Point Average (GPA) is a measure of how well students are doing in their academic studies. It is used to determine a student's eligibility to continue in programs that have minimum requirements (Honours), to graduate and to receive "with Distinction" designation on your degree.

1. For each course taken the grade point value of the mark is multiplied by the credit value of that course.

2. The total number of grade points is divided by the total number of credits to obtain the grade-point average (GPA).
3. The GPA is calculated only on courses taken for credit.
4. A course or grade may not be deleted from the permanent record. However, if students repeat a course only the highest grade will be used in the calculation of their total grade point average, including equivalent courses taken through TRU-OL. Students should contact the Office of the Registrar to ensure GPA has been recalculated.

Students who intend to transfer to another educational institution should be aware that another institution may re-compute grade point average in accordance with its own policies.

Student Classification

- **Full-time student:** A student who is enrolled in at least 60% of a full-time course load (40% for students with a permanent disability) each semester is classified as a full-time student.
- **Part-time student:** A student who is enrolled in less than 60% of a full-time course load (less than 40% for students with a permanent disability), will be classified as a part-time student.

Student Appeals

Students with concerns about a particular course or instructor should first discuss the problem with the instructor. If the problem is not resolved, or the problem is such that students do not wish to approach the instructor, students should discuss the problem with the appropriate Department Chairperson or Dean. If students are still dissatisfied, they should consult with the Office of Student Affairs, or a Counsellor. Also see Policy ED 4-0, Student Academic Appeals.

Student Electronic Communications Regulations

A student's TRU email address is the university's official electronic mailing address for all students. The account holder is responsible for reading and attending to email sent to this address. For details please review the IT Services website at tru.ca/its.

Transcripts of Academic Record

TRU regards the individual's permanent student record as a personal private document. Therefore, no transcripts are released without the written authorization of the individual concerned.

Official transcripts are sent only upon the student's written request to employers, educational institutions, and other authorized agencies. Student copies of transcripts are sent to students on request in sealed envelopes which may be enclosed by the student with other materials to be sent to employers, educational institutions, etc., if this is more convenient and accepted by the other institution.

TRU does not provide electronic copies (i.e. PDF files) of official or unofficial transcripts. Students may order transcripts online via myTRU or in person at Enrolment Services. Students can print an unofficial copy of their transcript from their myTRU account.

No transcripts or credentials will be issued until students have resolved all obligations to TRU in the way of fees, overdue library books, or outstanding fines and loans.

Student Services

Access the TRU student services network to make the most of your university experience. If you have general questions about services available, please call 250-828-5000 or read more at tru.ca/current .

Academic Advising

Academic Advisors are available to assist both current students and prospective students with university course planning and selection for first and second year. Accurate and up-to-date advising can relieve you of the stress of choosing an incorrect course, while saving you time and money—this is true whether you are an academic student in first or second year, in a career or trades program, or in a university preparation program.

The Academic Advising office has a variety of resources to assist students with course planning and course selection.

It is recommended that students contact the Academic Advising Department for program and course planning information to ensure their academic history is in-line with their academic goals. Read more at tru.ca/advising.

Contact us: 250-828-5075 or email advising@tru.ca | Old Main 1155.

Assessment Centre

The Assessment Centre provides general educational assessments to facilitate appropriate placement in courses/programs that best match student's abilities and needs; administers entry assessment tests for admission to various TRU programs; and coordinates and/or invigilate examinations for TRU and other educational institutions and outside agencies. Read more at tru.ca/assessment.

Email assess@tru.ca | Phone 250-828-5470 | Old Main 1487

Accessibility Services: Education within reach

Accessibility Services provides academic accommodations and services to all eligible TRU students, both on campus and on-line. Students with documented disabilities are provided services in a manner that is consistent with TRU's educational mandate and academic principles. Read more at tru.ca/as.

Policy: Academic Accommodation and Disability Services

Academic accommodations and services are tailored to a student's needs based on documentation provided by an approved and qualified health care professional and on the extent of the functional impact of the disability, as outlined by the appropriate medical professional.

Requests for new accommodations or changes or continuation to current accommodations must be made at the beginning of each term to allow for sufficient processing time. You must contact your Accessibility Services Advisor with updated documentation so adjustments to service levels. A new accommodation letter can be prepared for you if necessary.

Requests for new accommodations or changes to existing accommodations will be considered up to 4 weeks before the last day of classes. Exceptions to deadlines will only be considered in consultation with the Accessibility Services Manager.

For more information or to book an appointment
Email dso@tru.ca | Phone 250-828-5023|Toll free 1-888-828-6644
Fax: 250-371-5772 | Student Services Office, Old Main 1629.

Career and Experiential Learning

The Career and Experiential Learning department is dedicated to empowering students and alumni through the career planning process. Our team of career educators offer one-on-one career counselling and career development, organization of career/employer events, career and volunteer opportunities through an online job postings site and instruction of work search skills through our career management course and career planning workshops. Read more at tru.ca/cel.

Whether you are in your first or last year, we are here to help and support you to reach your career goals.

Email careereducation@tru.ca | Phone 250-371-5627 | Old Main 1712

Counselling Services

TRU counsellors support the academic success and personal growth of all TRU students and, subject to availability, prospective students.

Counsellors work alongside students to develop strategies for improved academic performance; they also offer support with personal assessment tools and workshops. Short-term individual counselling is also available and focuses on creating action plans and support networks that combat stress, anxiety, depression and other personal issues.

The counselling office is a respectful, safe and affirming atmosphere for students of all races, ability, ethnicity, sexual orientation, gender identity, religion, age, culture and socioeconomic status.

For more information or to book an appointment:
Phone 250-828-5023, or visit us in room 1631, Old Main
tru.ca/counselling

Early Alert: A safety net for students in difficulty

Early Alert engages faculty and staff in identifying students in difficulty and connecting those students to on-campus resources and support services as efficiently as possible. The purpose of Early Alert is to connect students in difficulty to TRU resources and support services as early as possible in their current university semester.

The sooner a student in difficulty is identified through the Early Alert process, the more time the student will have to improve his or her academic performance and successfully complete their course or program. Contact Early Alert: 250-828-5213 | earlyalert@tru.ca

Economics Help Centre

The Economics Help Centre is available for students and run by Economics faculty. Students can work alone or together with other students in a relaxed, informal environment, with help readily available.

The Help Centre is located in **IB 1021** in the International building. The centre is open during the fall and winter semesters daily. Help is available Monday to Friday according to the schedule.

Harassment and Discrimination Prevention

TRU is committed to providing a working and learning environment that allows for the full and free participation of all members of the university community. Discrimination undermines these objectives, violates the fundamental rights, personal dignity and integrity of individuals or groups of individuals and may require remedial action by the university.

Harassment is a form of discrimination that is prohibited under the university's Respectful Workplace and Harassment Prevention policy and may result in the imposition of disciplinary sanctions including, where appropriate, dismissal or permanent suspension.

Any member of the university community who believes they have been subject to harassment may contact the university's Human Rights Officer at 250-434-2591.

Indigenous Student Services

Weykt—we acknowledge and thank the Secwepemc People whose traditional territories we enjoy being a part of to live, learn and grow.

TRU offers Indigenous students a welcoming and respectful environment to help them reach their academic goals. *Cplul'kw'ten* is TRU's Indigenous student centre that provides information on all aspects of university life and doubles as space for students to socialize, study or just take a break. It is a home away from home.

Students receive assistance in finding services on campus, support with band funding applications, exploring academic support options such as tutoring or locating housing and off-campus amenities. They also receive support from the established Elder in the House Program and often gather in the lounge or backyard BBQ area for social or ceremonial events.

Students can also take advantage of workshops on study skills and wellness, one-to-one counselling, librarian services, on-site computers, as well as a kitchen and lounge area.

For more information: Phone 250-371-5508 or visit us in *Cplul'kw'ten* on the Kamloops TRU campus.

Math Help Centre

The Math Help Centre is a free service for students that is staffed by mathematics and statistics faculty and upper-level students. It is open to students taking any TRU course that involves mathematics or statistics, but is most useful for UEPREP and first-year level courses. Open Learning students are also welcome.

Students can work alone or together with other students in a relaxed and informal environment, with help readily available.

The Help Centre is located in room 304 in the Brown Family House of Learning.

For more information: Email mathhelp@tru.ca | Phone 250-828-5212

Multi-Faith Space

Thompson Rivers University offers a private and quiet, mulit-faith space for the TRU community of students, faculty and staff to reflect, pray and meditate.

Groups wanting to engage in shared spiritual practice may book one of the spaces by contacting the Student Services Receptionist in Old Main 1631.

Multi-Faith Chaplaincy

A Multi-Faith Chaplaincy on campus provides religious and spiritual care to the TRU community's students, faculty and staff. They provide an operating model of interfaith respect and cooperation. The Multi-Faith Chaplaincy acts as a religious and spiritual resource, encouraging thoughtful reflection and dialogue.

Office of Student Affairs

The Office of Student Affairs works collaboratively with students, staff, faculty and community partners to guide and support students on their learning journey towards student success. Through clear articulation and education of rights, responsibilities and TRU policies, we promote a safe and inclusive environment for the growth and development of TRU students.

The Office provides a wide range of services and supports; such as: orientation and transitions; academic conduct, including academic integrity; non-academic conduct; academic appeals; early alert, student emergencies; student off-campus safety and travel.

Email studentaffairs@tru.ca | Phone 250-828-5023 | Old Main 1631

Orientation

TRU's Office of Student Experience offers a multitude of educational experiences for new-to TRU students, providing insights on all aspects of university life. Students are welcome (and encouraged!) to attend one or more orientation experiences. Each orientation session explores different focuses to meet the individual needs of the student body.

Learn more about the campus, develop new skills, make new friends; start the year off right!

PACE – the Pack Academic Edge

PACE sets out to give student athletes the opportunity to connect with one another, PACE leaders and institutional resources in a supportive academic setting. WolfPack athletes have the opportunity to attend an academic success workshop at the start of the fall and winter semesters, study-tip mini-workshops, and group study sessions. Student athletes are supported by PACE leaders who are trained in referral and study success strategies, and work with student athletes on difficult courses/assignments. Leaders support student athletes to

achieve academic goals while maintaining a busy schedule. PACE sessions will be held in the Brown Family House of Learning.

Sexualized Violence Prevention & Response

TRU's Sexualized Violence Prevention and Response Manager, can provide individual support to victims/survivors, as well as education and prevention services to the wider university community.

Office hours are 9 a.m. to 2 p.m., Monday, Tuesday and Thursday. Please make appointments through the counselling department. The office in Old Main 1631 is open Monday to Friday from 8 to 4. You may check in with the front desk or call 250-828-5023 to make a confidential appointment. For more information about sexualized violence—safety, consent, resources and support—refer to TRU's sexualized violence website.

Student Awards & Financial Support

TRU offers a comprehensive range of resources to assist students in financing their educational and living costs, and to recognize academic excellence. Financial support can be a combination of bursaries, scholarships, awards, work-study, loans and grants

Some of these financial resource programs are administered directly through Student Awards & Financial Support, and for others our office works with the appropriate government office or funding body. Some funding requires an application, some is provided upon the recommendation of faculty, and some scholarships are automatically awarded based on performance.

Adult Upgrading Grant

The Adult Upgrading Grant (AUG) provides a need-based, non-repayable grants to assist BC provides need-based grants for BC residents who wish to access preparatory and secondary level courses, including Adult Special Education. **It does not fund any post-secondary programs or courses.**

Student Aid BC

Student Aid BC can assist post-secondary students with educational and living costs where the financial resources from parents, summer work, or other sources are insufficient to meet the total estimated costs.

Students planning to apply to StudentAidBC are advised to complete their application online in June – this will ensure you receive your funds on time. Funds awarded under this program will be disbursed through a combination of Canada Student Loan, Provincial Student Loan and in some cases grants and/or loan reduction.

To be eligible, you must be a Canadian citizen, or Permanent Resident enrolling in at least a 60% post-secondary course load of an approved program (40% for students with a permanent disability) that is a minimum of 12 weeks in length. The amount of assistance awarded will be based on assessed need as determined by the provincial government.

For more information, and links to all Canadian student assistance programs, see out of province loans.

Maintaining interest free status on your student loan

Students eligible for interest-free status are not required to make interest or principal payments on their outstanding Canada-B.C. integrated student loan. In order to be eligible, students must submit an Interest Free application online, and be enrolled full time in a program of study which has been designated eligible for StudentAid BC funding. Most academic programs require a separate Interest Free application each semester, however you can submit an application for both fall and winter semesters at the same time. Students who are in interest-free status are in a "funded term" whether they have new loans or not; therefore, withdrawals and unsuccessful terms during this time may affect their eligibility for further assistance

Part-time Grants and Loans

Applications are available online at tru.ca/awards/government-programs/part-time.

Fee Deferrals

Student Awards & Financial Support is responsible for the approval of fee deferrals (i.e. deferring your fee payment due date).

Canadian citizens/permanent residents

Students who meet either of the following two conditions will have their tuition and fees deferred **automatically**.

1. Students who have been approved for full-time or part-time student loans/grants through StudentAidBC

- with TRU named as the institution **and**
- prior to the start of classes, **and**
- have a loan grant total greater than their total fees owing.

2. Have accepted an offer of scholarship or award which fully funds all tuition and fees, and are meeting all the conditions of the award (sufficient enrolment, athletic eligibility, etc.)

Manual fee deferrals will also be provided to students who can document assignable loan and grant funding from a province other than BC and meet the above conditions. Contact Student Awards & Financial Support. Split enrolled students with government funding confirmed by a school other than TRU are not eligible for a fee deferral.

Students applying for student loans are strongly encouraged to apply two months in advance of their fee payment/fee deferral deadline.

New international applicants, fee deferral

New international applicants are eligible for a deferral. Deferrals will normally be granted on a one-time basis only. All deferrals will expire one calendar year from the start date noted in the original Letter of Acceptance. If a student's request for a deferral is approved, TRU will hold and retain 100% of all paid tuition and other scheduled fees and apply these to the new semester. All tuition paid to TRU will be forfeited if the applicant does not register and begin classes within one calendar year of the start date noted in the original Letter of

For more information, or to book an appointment: Email awards@tru.ca Phone 250-828-5024 |Fax 250-371-5668 | Old Main 1629.

Student Housing

TRU Housing: North Tower

Home to 570 students, our modern 11 storey student residence has some of the best views in the city. Each private bedroom includes a desk, chair, double bed, phone, TV and lamp. Choose either a two- or

four-bedroom suite. Apply online and take a virtual tour of the building at TRU Residence
Contact: 250-852-6296 or email info@truresidence.ca.

TRU Housing: McGill Residence: There are 300 self-contained rooms, divided into 75 housing units, in three buildings. Apply online for McGill Housing at tru.ca/housing.
Contact McGill on-campus student housing at 250-852-6330 or email mcgillhousing@truresidence.ca.

TRU Housing East Village: 64 suites (approximately 250 beds). Contact TRU Housing: East Village at 250-372-0207 or email uch@truresidence.ca.

Off campus housing options: Find out more at: tru.ca/housing.

Student Success Courses

The Faculty of Student Development offers five one-credit elective student success courses that provide students with a strong foundation for university achievement. Email: jegoddard@tru.ca

Supplemental Learning

Supplemental Learning (SL) is academic support linked to challenging a variety of introductory courses. In courses supported by SL, students are invited to attend weekly sessions. SL sessions provide opportunities to study with your peers informally with a planned and strategic approach. Sessions are led by a student who has previously excelled in completing the course and knows what it takes to succeed. SL sessions integrate how-to-learn (study skills) with what-to-learn (course content) in a relaxed and collaborative setting. Read more at tru.ca/sl.
Phone 250-828-5277 | Old Main 2699

Student Life Transitions

The Office of Student Experience supports new-to-TRU students making the transition to university. Faculty, staff and peers collaborate on Student Street every week during the fall and winter semesters, talking to students and handing out timely resources. Our goal is to help students with academic, personal and social success. Read more at tru.ca/experience.

Student Leadership Development

The TRU Peer Mentors demonstrate initiative, innovation, and creativity on a daily basis on our campus. Peer Mentor Programs include Social Media Ambassadors, Indigenous Peer Mentors, Writing Centre Tutors and many more!

Wellness Centre

The TRU Wellness Centre promotes the well-being of our diverse TRU community. The Wellness Centre values the health of all employees and students on campus and aims to provide unique, educational and fun programs that will help provide the skills and tools needed to make informed decisions about your health and well-being.

The Centre provides a variety of Wellness initiatives including, presentations and campus-wide wellness activities. We also coordinate special events.

The Wellness Centre hang-out space is located in Old Main, in room 1479. Volunteer students who are part of the Student Wellness Ambassador Team (SWAT) are based out of the Wellness Centre and act as a health resource for students and employees. This includes peer listening, offering referrals, and providing health and wellness resources.

Email a TRU Wellness Coordinator—Chelsea Corsi ccorsi@tru.ca or Sam Nielsen snielsen@tru.ca .
To contact us by phone please call 250-828-5023 |Old Main 1479
Facebook: facebook.com/truwellnesscentre | twitter: @truwc

Writing Centre

Whether you are an undergraduate student or graduate student, the Writing Centre can assist you by providing feedback on your writing. Students may receive help with any stage of the writing process: assignment interpretation; generating ideas; creating an outline; lower-order concerns such as sentence structure, grammar, and punctuation; higher-order concerns such as clarity of ideas and soundness of arguments; research and citation; and revision and editing. Our goal is to help you become a better, more confident writer.

The Writing Centre has handouts, videos, tutorials, and web links that you can use to improve your skills in many areas

Email writing_ctr@tru.ca | Phone 250-852-7673 |HL 104.

Beyond the classroom

Certificate(s) of Recognition

Global Competency
Global Competency is a credential that can be earned in tandem with any undergraduate or graduate credit program offered by Thompson Rivers University. The credential formally recognizes the global competencies - knowledge, skills, and attitudes of a globally minded citizen - acquired by students through their educational experiences.

Students earning this credential will have it formally noted on their official TRU transcript and will also receive a "Certificate of Recognition - Global Competency." It is awarded on completion of a student's program of study, provided that all of the Global Competency requirements have been met.

Leadership in Environmental Sustainability
Leadership in Environmental Sustainability is a credential that can be earned in tandem with any undergraduate or graduate credit program offered by Thompson Rivers University. The credential formally recognizes the environmental sustainability competencies- knowledge, skills, and attitudes – acquired by students through their educational experiences.

Students earning this credential will have it formally noted on their official TRU transcript and will also receive a "TRU Certificate – Leadership in Environmental Sustainability." It is awarded on completion of a student's program of study, provided that all of the requirements have been met.

Campus Life

Athletics and Recreation

Thompson Rivers University has a large athletic program. Team sports include: basketball (men and women), volleyball (men and women), soccer (men and women), cross country running (co-ed), swimming (co-ed) all of which compete in the CIS and Canada West: the top university sports league in Canada.

Each team has an open tryout at the start of the year. Please contact the respective coaches for more information and find out more on the WolfPack website.

TRU Recreation organizes a variety of special events, intramural sports, and fitness classes for the university community. The gymnasium facility includes, change rooms with showers and lockers, and a full sized gym floor. Many activities are free, while others require a minimum fee. See TRU Recreation for a full list of services.

Bookstore

Conveniently located on the main floor of the Campus Activity Centre, the bookstore offers course textbooks, specialized course materials, art supplies, calculators, phone and gift cards in addition to TRU apparel and giftware.

Full refunds on text purchases are offered within the first two weeks after the official start of classes provided the text is in original pristine condition and accompanied by the original receipt. Textbook Return Policy.

To browse our online bookstore, find the value of used books or generate your booklist, please visit thebookstore.tru.ca, or phone 250-828-5141.

Campus Activity Centre

The Campus Activity Centre (CAC) serves the Thompson Rivers University community with a variety of facilities and programs. The heart of the CAC, the Rotunda can be used as a unique space for trade shows, performances and receptions. The CAC provides a setting for individuals to socialize and to meet outside of the classroom.

Inquire by email at conferencecentre@tru.ca or call 250-371-5723.

Campus Card

This photo identification card is required to access library services, to obtain the Students' Union U-Pass and is used in a variety of ways on campus for identification. The campus card may also provide various student discounts at merchants throughout the City of Kamloops. It is available at the Bookstore in the Campus Activity Centre on receipt of registration fees. More information can be found at tru.ca/campuscard.

Cariboo Child Care Society: Daycare

The Cariboo Child Care Society (daycare) at TRU aims to:

- provide exceptional care for children and families in a safe, healthy learning environment
- primarily serve the childcare needs of students at Thompson Rivers University, then faculty/staff and off campus families
- offer educational opportunities for University students in programs that relate to the development of children

All of the staff at Cariboo Child Care are qualified Early Childhood Educators.

Contact us about program availability at daycare@tru.ca | Phone 250-828-5160

Campus Infastructure and Sustainability

Facilities Services is responsible for the renovation, maintenance and cleanliness of all TRU buildings, grounds and facilities on campus; and the provision of campus security, traffic control and parking, office and building keys and furniture support services.

Information or assistance can be provided as follows:

- Building maintenance and janitorial services. Phone: 250-828-5388 | Email facilities@tru.ca
- For security or building access information call campus security at 250-828-5033.

Sustainability

The TRU Sustainability Office at TRU works to implement the Campus Strategic Sustainability Plan. It provides support and resources for students, staff, and faculty who are interested in making TRU the University of Choice for environmental sustainability, and it works with individuals and organizations within the Kamloops community to make our city a greener place to live.

We welcome your questions on environmental sustainability initiatives, and your suggestions on how to further reduce TRU's carbon footprint on campus and in the community in the areas of energy, water, food, recycling and zero-waste, transportation, reporting, materials and engagement.

Transportation and Parking

Information on campus transportation and parking services, charges, passes and violations is available at **Transportation.**

Parking Office:

Email parking@tru.ca | Phone 250-828-5368

Paid parking is in effect Monday through Friday, except when the university is officially closed.

Food Services: Dining on campus

There are several options for dining on the TRU Kamloops campus. You can buy a dining card at the food services office: Room 205 Second Floor Campus Activity Centre.

The Culinary Arts Training program operates the Culinary Arts Training Centre (CATC) which runs the Scratch Cafe and Accolades Dining Room in the CATC building.

TRU Food Services operates food service outlets in the Campus Activity Centre, House of Learning, Old Main, International Building, the Science Building and the Trades and Technology Building.

For a detailed listing of food outlets, visit tru.ca/food-services. For catering services please call 250-828-5005.

The Thompson Rivers University Students' Union (TRUSU) operates the Common Grounds Coffee Shop. It offers fair trade organic espresso, locally catered food, biodegradable cups, fair wages for student employees, and extended hours of operation. You can find us in the Students' Union Building.

Information Technology Services

The IT Service Desk is your first point of contact to report or ask questions related to TRU technology. The Service Desk team provides customer-focused service with a goal of first call resolution regardless of the method of contact — phone, email or in-person. Our IT Services website, tru.ca/its, offers support information related to campus computer accounts, email, computer labs/classrooms, printing, wireless, Blackboard and Moodle, training and tutorial guides, software available for TRU students and employees, and more.

Contact IT services by email at ITServiceDesk@tru.ca, or phone 250-852-6800 or 1-888-852-8533

Computer lab support: email labsupport@tru.ca or call 250-828-5332

Media services ITV and multimedia classroom support, email mdoubt@tru.ca or call 250-828-5336

For audio visual Equipment bookings and repair email aboyda@tru.ca or call 250-828-5070 or 250-371-5880

Lost & Found

Ask about lost and found items at the TRU Security Office in Old Main, room 1226. Or call 250-828-5033.

USB drives are forwarded to Computer Lab Support in Old Main, Room 1326.

Medical Clinic

The Medical Clinic on the TRU Kamloops Campus is available to all registered students, staff and faculty of TRU. It has physicians available on an appointment basis, five days a week.

Health Services retains all medical documentation and immunization records as may be required by specific institutional programs; in a secure and confidential manner.

Location: Old Main Building, Room 1461 | Phone 250-828-5126

Emergencies on campus extension 1111 or 911

Hours: Monday to Thursday from 8:30 a.m. to 4:00 p.m. (closed 11:45 a.m. to 1:00 p.m.). Fridays open from 8:30 a.m. to 3:00 p.m. (no lunch closure). ***Appointments are required, this is not a drop in clinic.***

Omega Student Newspaper

The Omega, Thompson Rivers University's Independent Student Newspaper, is a free press publication written by TRU students for the TRU campus community of students, faculty, and staff.

At least 1500 newspapers are distributed to sites on and off campus, every Wednesday throughout the academic year, and once per month during the summer. Students are encouraged to volunteer at the paper as contributors or board members.

Parenting room

TRU is pleased to offer a Breastfeeding and Parenting Room—a space exclusively for pumping, breastfeeding and diaper changing.

Located in the Old Main Building on the first floor, the space is adjacent to the Student Street washroom. The private room is clean, secure and equipped with a comfortable chair, change table and sink.

Contact Student Services at the front desk in Old Main, Room 1631 to receive the secure access code.

Print Services

The Print Shop is located in the Old Main Building in room 1206. Services include self-service copying, full-color copying, black-and-white as well as full-color transparencies/overheads, scanning to disk, printing from disk, printing from emailed files, document binding and laminating. View the **print services** web page for a full list of services. Contact us at 250-828-5380 or email printshop@tru.ca.

Safety and Emergency Management

The Office of Safety and Emergency Management works collaboratively with all departments, faculties, students and various Building and Joint Health and Safety Committees to ensure that the campus community is a safe and secure place to work and learn. Any and all injuries or illnesses resulting from activities on Thompson Rivers University's campuses should be treated by campus first-aid by contacting TRU security, and then reported to their Supervisor and the TRU Safety Officer. As part of the university's Emergency Communications Plan, all employees and students are required to register for TRU Alerts—please sign up at tru.ca/alerts—students and employees are also strongly encouraged to download the free TRU SAFE mobile safety app.

Contact Information: Human Resources Building HR 139
Safety Officer: 250-828-5139 | Biosafety Officer: 250-371-5807
Emergency Manager: 250-371-5805
Campus Security: on campus: 1111 or 250-828-5033 (24 hours/day)
Police, Fire, Ambulance: 911 | tru.ca/hsafety

Security

Kamloops campus security services are provided on a 24-hour basis. The security office (HL 128) is located on the first floor of the Brown Family House of Learning Building. If you need assistance or see anything suspicious, contact security services 24 hours a day by calling **250-828-5033**.

In an emergency always call 911 for police, fire or ambulance services and then contact TRU security as soon as it is safe to do so.

Building Access: Students requiring after-hours access must obtain prior authorization through their instructors and proof of identity. Authorized after-hours access can be obtained by contacting the Campus Security Office at 250-828-5033.

TRU Alumni and Friends Association

The Alumni and Friends Association informs, involves, connects, and educates through a variety of activities such as the Career Mentor program which connects current students with recent grads and a variety of annual scholarship and bursary programs.

Every student of TRU becomes a member of the Alumni Association upon graduation. Contact us at 250-828-5264 or email alumni@tru.ca.

TRU Foundation

The TRU Foundation provides funds for the financial support of TRU students and TRU's programs and projects. The Foundation puts on many events throughout the year that contribute to our fundraising efforts.

Contact the TRU Foundation by phone at 250-828-5264, or email foundation@tru.ca. Located on campus at: Lower Level, Clock Tower Building.

TRU Theatres & Art Gallery

The TRU Theatre Arts Department is home to two theatres for the presentation of performances, an Art Gallery, and a number of informal spaces for the exhibition of artworks. These venues are used for exhibitions and performances of works by TRU students and faculty, as well as providing venues for artists, performers, authors, etc., who come to campus in conjunction with such programs as "Cultural Events" and the "Visiting Artist" program.

Actors Workshop Theatre—a state of the art theatre which can be modified into a variety of configurations, and is used by students of the Actors Workshop for the production of plays associated with TRU's Theatre program.

Alumni Theatre—the rehearsal and teaching space for the TRU Chorus.

TRU Fine Arts Gallery—used for regular exhibitions of artwork by TRU students and faculty, and presentations by artists from across Canada as part of the Visiting Artist program.

University Library

The TRU Library system consists of the Main Library (Clock Tower), the Brown Family House of Learning Library (third floor), the Law Library and the Williams Lake Campus Library.

The TRU Library's website serves as the main portal for access to all of TRU Library's resources and services. TRU students, faculty and staff are provided access to a significant collection of electronic journals, electronic books, general and subject specific research databases via the library website. Off-campus access to these licensed resources in restricted to TRU affiliates (faculty, students & staff). Access to the licensed electronic resources and physical library content are available to the all users on a walk in or online basis.

Main Library: 250-828-5306 |**House of Learning Library**: 250-828-5312
Law Library: 778-471-8451 | **Williams Lake Library**: 250-392-8030

See TRU Library for a full overview of all library services.

Williams Lake Library

Students and faculty have access to all print and electronic TRU Kamloops Library holdings. Items not available locally can be obtained through the interlibrary loan network.

Law Library

The TRU Law Library is located on the third floor of the Old Main building within the Faculty of Law. Access to the TRU Law Library is restricted to Faculty of Law students, faculty and staff. Law Library resources are discoverable through the library website and can be access via a request to the circulation staff at Main Library.

Library Hours

Library branch hours vary. For details, visit tru.ca/library/hours

TRUSU: Thompson Rivers University Students' Union

The Thompson Rivers University Students' Union (TRUSU) is the democratic, membership-based organization of all students enrolled at the TRU Kamloops campus. Local 15 of the Canadian Federation of Students, Canada's largest students' organization. Members collectively provide and receive advocacy, services and entertainment that contributes to universal access to, and fulfilling experience in, the public post-secondary education system.

For more information please call: 250-828-5289 or email info@trusu.ca
Or visit us online at trusu.ca. | Twitter @trusu15

Faculty of Adventure, Culinary Arts and Tourism

Bachelor of Tourism Management

Four-year undergraduate degree program. Graduates receive a Bachelor of Tourism Management (BTM) degree.

Learning Options

Open admission

Full-time or part-time study is available.

On-campus: Offered on the main campus of TRU in Kamloops.

Distance Education: Many courses are available by distance education and may be transferred in as part of the degree.

Program start dates: Students may enter the program in the fall, winter, or summer semesters.

Program Overview

TRU's Bachelor of Tourism Management (BTM) was launched in 1997 and has the distinction of being the first tourism degree in British Columbia. The focus of the BTM is on key issues in local, regional, national and international tourism, with opportunities for international experience through Study Abroad and field schools. Learn the skills and gain the confidence to develop your own tourism business or fill the growing need for leaders in the tourism industry. Courses blend theory with practical experiences. Students are exposed to the latest topics and best practices, taught by experienced academics and industry professionals.

Graduates acquire the necessary skills to provide quality tourist experiences, develop and manage tourism businesses with entrepreneurial spirit, and contribute to community development in a manner that is environmentally, socially and economically sustainable.

Program Learning Outcomes

Graduates of the Bachelor of Tourism Management will be able to:

Theme 1: Context of Tourism

- Contextualize tourism within broader cultural, environmental, political and economic dimensions of society.
- Critique tourism practices for their implications locally and globally.

Theme 2: Knowledge of Tourism

- Interpret and evaluate tourism as a phenomenon and as a business system.
- Explain the diverse nature of tourism, including culture and place, global/local perspectives, and experience design and provision.
- Identify and assess relationships and networks relative to building tourism capacity.

Theme 3: Professional Skills

- Apply relevant technology for the production and management of tourism experiences.
- Plan, lead, organize and control resources for effective and efficient tourism operations.
- Create, apply, and evaluate marketing strategies for tourism destinations and organizations.
- Develop and evaluate tourism policy and planning initiatives.

Theme 4: Ethics and Values

- Demonstrate commitment to ethical practices of tourism.
- Actively engage in the world as global citizens.
- Practice empathy and respect for diversity and multicultural perspectives.
- Apply principles of sustainability to the practice of tourism in the local and global context.

Theme 5: Research

- Acknowledge one or more philosophical perspectives to knowledge creation.
- Evaluate and apply various research methods commonly used in the context of tourism.
- Propose and conduct a research project to inform tourism practice.

Theme 6: Communication

- Select and deploy task-appropriate forms of oral, written, digital, and graphic communication.
- Value and practice active listening, critical thinking, and critical reading.
- Distinguish and produce forms of communication relevant to academia, business, government, and industry.
- Assess, evaluate, and employ appropriate communication tools for discussions within and between teams and members, various audiences, decision-making teams, and corporate communication tasks.

Theme 7: Critical Thinking & Problem Solving

- Apply problem solving and critical analysis within diverse contexts.

Theme 8: Leadership & Teamwork

- Work collaboratively in groups, both as a leader and a team member, in diverse environments, learning from and contributing to the learning of others.

International Opportunities

Students can incorporate global learning experiences through a wide range of international opportunities, including field schools and exchange programs with partner institutions worldwide.

For more information, visit: tru.ca/studyabroad.

Global Competency Certificate

Students can seek formal recognition for their intercultural and international learning experiences through the Global Competency Certificate. Visit tru.ca/campus/beyond/global for more information.

Work Experience and Co-operative Education

To meet all program requirements for graduation, students must have a minimum of 500 hours of documented relevant work experience supported by industry references indicating capable performance.

Students can meet this requirement on their own or through one or more Co-operative Education work terms as part of their studies in the BTM. Co-operative Education (Co-op) is the integration of academic studies with paid work terms related to the student's studies. Each Co-op work term is worth three (3) lower-level elective credits within the BTM program. Up to six (6) program credits can be earned through Co-operative Education.

Students completing the Co-op work terms will earn the "Co-op" designation on their transcript. Each Co-op work term for the BTM is four months in length and can be completed in a number of ways. Students are expected to complete multiple work terms in more than one season of the year. The model below is a sample time pattern to complete the Co-op work terms.

Students must complete a minimum of 30 credits prior to the first work term with a cumulative GPA of 2.33 to enter the BTM Co-op option and must maintain a cumulative GPA of 2.33 to remain eligible for Co-op.

Sample BTM Co-op Time Pattern

	Sept.-Dec.	Jan.-Apr.	May-Aug.
Year 1	Academic Semester 1	Academic Semester 2	
Year 2	Academic Semester 3	Academic Semester 4	Co-op Work Term
Year 3	Academic Semester 5	Co-op Work Term	Co-op Work Term
Year 4	Academic Semester 6	Academic Semester 7	Co-op Work Term
Year 5	Academic Semester 8	Graduation	

Admission Requirements

1. BC grade 12 or equivalent, or mature student status.
2. English 12/English 12 First Peoples with a minimum 73% (or equivalent).
3. Foundations of Math 11 or Pre-calculus 11 or Foundations of Math 12 with a minimum C (or equivalent).

NOTE: Students with Pre-calculus 12 or Foundations of Math 12 with a minimum C+ will be exempt from MATH 1100 and must make up the 3 credits with an elective of their choice.

Students who have completed their studies in a country where English is not an official language will be required to provide proof of English language proficiency.

Computer Skills

Students with little or no experience using computers are advised to take an introductory computer course that familiarizes them with Microsoft application software, in particular Word, Excel and PowerPoint.

Admission Process

Students apply online at tru.ca/future/admissions.

Transfer to TRU

Applicants who have previous credits in appropriate university or college courses may apply them toward the requirements of the degree. Course work from other institutions will be assessed following application to the BTM. Students may wish to consult the BC Transfer Guide for information on transferability of credits and to find out if particular courses will transfer to TRU at bctransferguide.ca

It is common for students to enter the BTM in third year after completing a two-year tourism or business-related diploma. The program is designed to accommodate these students, as well as students entering in first or second year.

A maximum of 50% of the program credit requirements can be fulfilled by transfer credit.

Transfer Agreements

TRU has a number of provincial, national, and international articulation (transfer) agreements in place. Contact the Tourism Management Department Chairperson for more information.

Laddering Credit from Other Programs

Many tourism and business based diplomas have been designed to "ladder" or internally transfer into the BTM. All of the TRU programs below have the ability to ladder up to 60 credits towards the BTM (credits may vary depending on concentration/major selected by student):

- Adventure Guide Certificate
- Adventure Guide Diploma
- Events and Conventions Management Diploma
- Resort and Hotel Management Diploma
- Sport Event Management Diploma
- Tourism Management Diploma

Program Policies

Students must meet TRU's residency policy. Exceptions to this policy may be granted in advance to students involved in academic exchanges with other post-secondary institutions.

To remain in the BTM program after admission:

- students must maintain a cumulative GPA of at least 2.0
- students cannot repeat a course more than twice
- students failing to meet the CGPA requirements will be placed on a learning contract.

Third-year standing in the BTM is defined as:

- 54 or more credits completed
- CGPA of 2.0 or better (BTM courses only)
- successful completion of the following courses (or approved equivalents): CMNS 1810, GEOG 2700, TMGT 1110, TMGT 1150, ACCT 1000, and ECON 1220

A minimum grade of C- is necessary in all required upper-level courses in the BTM, in order to progress and to graduate.

Graduation Requirements: Successful completion of 120 credits with a minimum CGPA of 2.0 (BTM courses only). Students are required to complete a minimum of 500 hours of tourism-related work experience.

Program Options

The BTM is a 120-credit degree. The first 60 credits provide a solid foundation for the management of tourism businesses. The second 60 credits enable students to choose a specialty area, offering an unparalleled opportunity for students to pursue in-depth studies in areas of particular interest to them. The program is organized into two main streams:

1. Adventure Studies
2. Tourism Management

1. Adventure Studies

Adventure Studies within the Bachelor of Tourism Management Degree equips students for the growing needs of the adventure travel industry. Governments, businesses, organizations, and communities require tourism experts to help develop, direct, and promote adventure experiences in their villages, cities, regions, and countries.

Program Requirements

Year 1 and Year 2 (60 credits):

Description	Credits	Courses
Communications and New Media	6 credits	CMNS 1810 and JOUR 2060
Quantitative Analysis	3 credits	GEOG 2700
Organizational Behaviour	3 credits 3 credits	TMGT 1140 TMGT 1160
Marketing	6 credits	TMGT 1150 one of EVNT 2190, EVNT 2250, HMGT 2120
Finance and Decision Making	3 credits	ACCT 1000
Economics	3 credits	ECON 1220
Tourism Essentials	3 credits	TMGT 1110
Law	3 credits	TMGT 2250
Culture, Geography and History	3 credits	TMGT 2060
Environmental Stewardship	3 credits	TMGT 2610
Unspecified Electives	21 credits	Any discipline
Field Work	500 hours	Students must have completed, documented, tourism-related work experience supported by industry references indicating capable performance. Requirement can be done on own or via the Co-op program.
Notes: Field courses from previously completed adventure-based diploma programs may be counted as unspecified electives. Electives space may also be saved to accommodate courses taken during study abroad.		

Students who wish to take other tourism concentrations at the upper-level must take MATH 1100, TMGT 2010, and ECON 2220.

Year 3 and Year 4 (60 credits):

Requirement	Credits	Courses
Capstone	3 credits	ADVG 4080
Core	18 credits	ADVG 3200, CMNS 3020, TMGT 3020, TMGT 3050, TMGT 4080, and either ADVG 4010 or TMGT 3030
Concentration	15 credits	15 credits for concentrations
Electives	15 credits	Any discipline 3 credits must be at the upper-level (3000 or 4000 level)
Themes	9 credits (3 credits from each theme area – see note)	**Theme area 1: Culture and Place- choose one of:** ADVG 4220, TMGT 3010, TMGT 4090, TMGT 4100 or TMGT 4220 and **Theme area 2: Global Perspectives- choose one of:** ADVG 4050, ADVG 4160, TMGT 4030, TMGT 4040, or TMGT 4160 and **Theme area 3: Experience Design - choose one of:** ADVG 4040, ADVG 4200, TMGT 4010, TMGT 4050, TMGT 4130, TMGT 4170, TMGT 4180, or TMGT 4210
Notes: **Themes**: Some theme requirements may be met through a student's concentration. In this case, students will have more elective space available.		

Adventure Studies Concentration

	Credits	Courses and Notes
Adventure Studies Concentration	15 credits	ADVG 4020, ADVG 4030, ADVG 4040, ADVG 4210, ADVG 4220 Capstone: ADVG 4080

Adventure Studies Majors and Minors

Adventure Studies Major	24 credits	24 credits at the ADVG 4000 level including ADVG 4800
Adventure Studies Minor	12 credits	ADVG 4010 9 credits from: ADVG 4020, 4030, 4040, 4050, 4070, 4090, 4110, 4210, 4220, 4230, ADVG 4100(6 credits)

2. Tourism Management

Tourism Management concentrations in the Bachelor of Tourism Management (BTM) program offer students the chance to develop an understanding of tourism as both an industry and an important sociocultural activity in today's increasingly mobile world. Students explore tourism's social, environmental, and economic contexts, while developing strong management skills that will position them to thrive in public, non-profit, and commercial sector organizations – or to join tourism's dynamic entrepreneurial scene by creating a new venture of their own.

Program Requirements

Year 1 and Year 2 (60 credits):

Description	Credits	Courses
Communications and New Media	6 credits	CMNS 1810 and JOUR 2060
Mathematics	3 credits	MATH 1100
Quantitative Analysis	3 credits	GEOG 2700
Organizational Behaviour	6 credits	TMGT 1140 and TMGT 1160
Marketing	6 credits	TMGT 1150 and one of EVNT 2190, EVNT 2250, HMGT 2120
Finance and Decision Making	6 credits	ACCT 1000 and TMGT 2010
Economics	6 credits	ECON 1220 and ECON 2220
Tourism Essentials	3 credits	TMGT 1110
Law	3 credits	TMGT 2250
Culture, Geography, and History	3 credits	TMGT 2060
Environmental Stewardship	3 credits	TMGT 2610
Unspecified Electives	12 credits	Any discipline
Field Work	500 hours	Students must have documented relevant work experience supported by industry references indicating capable performance. Requirement can be done on own or via the Co-op program.
Field courses from previously completed adventure-based diploma programs may be counted as unspecified electives. Elective space can also be saved to accommodate courses taken during study abroad.		

Year 3 and Year 4 (60 credits):

Requirement	Credits	Courses
Capstone	3 credits (specific to concentration)	Resort Experience: HMGT 4800 **or** TMGT 4020 Innovation and Entrepreneurship: TMGT 4800 **or** TMGT 4020 Festivals and Events: EVNT 4800 **or** TMGT 4020 General: TMGT 4020
Concentration	15 credits	See below for details.
Core	18 credits	ADVG 3200, CMNS 3020, TMGT 3020, TMGT 3050, TMGT 4080 and either ADVG 4010 or TMGT 3030
Electives	15 credits	Any discipline 3 credits must be at the upper-level (3000 or 4000 level)
Themes	9 credits (3 credits from each theme area – see note)	**Theme area 1: Culture and Place choose one:** ADVG 4220 TMGT 3010, TMGT 4090, TMGT 4100, or TMGT 4220 and **Theme area 2: Global Perspectives choose one:** ADVG 4050, ADVG 4160, TMGT 4030, TMGT 4040, or TMGT 4160 and **Theme area 3: Experience Design choose one:** ADVG 4040, ADVG 4200, TMGT 4010, TMGT 4050, TMGT 4130, TMGT 4170, TMGT 4180, or TMGT 4210
Notes: **Themes**: Some theme requirements may be met through a student's concentration. In this case, students will have more elective space available.		

Tourism Management Concentrations

Program	Credits	Courses
Innovation and Entrepreneurship Concentration	15 credits	TMGT 4010, TMGT 4110, TMGT 4120, TMGT 4140, TMGT 4150
Festivals and Events Concentration	15 credits	EVNT 3800, TMGT 4010, TMGT 4050, TMGT 4090, TMGT 4980
Resort Experience Concentration	15 credits	HMGT 3000, TMGT 4030, TMGT 4150, TMGT 4170, TMGT 4180
General – No Concentration	15 credits	15 credits from ADVG, EVNT, HMGT, MTST, and TMGT courses at the 3000-4000 level

Program Contact

Email tourismadvising@tru.ca | Phone 250-828-5366

Post-Baccalaureate Certificate in Tourism

One-year program of study consisting of 30 credits for students who have completed a bachelor's degree. This certificate offers students the opportunity to build knowledge in the broader tourism field. Graduates receive a Post-Baccalaureate Certificate in Tourism.

Learning Options

Limited-entry

Full-time or part-time study is available.

On-campus: Offered on the main campus of TRU in Kamloops.

Program start dates: Students may begin their studies in fall or winter semester, with an anticipated two-semester completion (summer not included).

Program Overview

Students gain basic knowledge and skills for working in the general field of tourism. They gain an overview of the industry; demonstrate understanding of issues fundamental in tourism planning, marketing, and service provision; and acquire an awareness of central issues related to tourism's engagement with culture and the natural environment, as well as explore the experiential dimensions of this phenomenon.

This program ladders seamlessly into the following specialized tourism post-baccalaureate diploma programs: Innovation and Entrepreneurship in Tourism, Managing Festivals and Events, Resort Experience Management, Tourism Destination Development, and Tourism Experience Management.

Admission Requirements

1. An undergraduate degree from any discipline
2. English language proficiency:
   Students who have completed their studies in a country where English is not an official language will be required to provide proof of English language proficiency.
   tru.ca/campus/admissions/international/admission-requirements.

Application Process

Students apply online at tru.ca/future/admissions

Program Requirements

Core: (15 credits)	
CMNS 1810	Business, Professional and Academic Composition (3 credits)
TMGT 1110	Introduction to Tourism (3 credits)
TMGT 1150	Marketing and Customer Service (3 credits)
TMGT 2610	Environmental Issues in the Tourism Industry (3 credits)
TMGT 3020	Tourism Policy and Planning (3 credits)
Tourism Electives: (15 credits)	
Lower-level tourism electives –(1000 – 2000 level:) choose one from ADVG, EVNT, HMGT, MTST or TMGT courses (3 credits)	
Upper-level tourism elective (3000 –4000): choose one from ADVG, EVNT, HMGT, MTST, or TMGT courses (3 Credits)	
Theme 1: Culture and Place – select one of the following options (3 credits): TMGT 3010, TMGT 4090, TMGT 4100, TMGT 4220, ADVG 4220	
Theme 2: Global Perspectives – select one of the following options (3 credits): TMGT 4030, TMGT 4040, TMGT 4160, ADVG 4050, ADVG 4160	
Theme 3: Experience Design – select one of the following options (3 credits) TMGT 4010, TMGT 4050, TMGT 4130, TMGT 4170, TMGT 4180, TMGT 4210, ADVG 4050, ADVG 4200	

Program Policies

To remain in the program after admission:

- students must maintain a cumulative GPA of at least 2.0 (calculated using program courses only)
- students cannot repeat a course more than twice; and
- students failing to meet the CGPA requirements will be placed on a learning contract.

Graduation Requirements: Successful completion of all 30 program credits with a minimum CGPA of 2.0 is required (calculated using program courses only).

Program Contact

Email tourismadvising@tru.ca | Phone 250-828-5366

Post-Baccalaureate Diplomas in Tourism

One-and-a-half to two-year programs for students who have completed a bachelor's degree. Graduates receive a post-baccalaureate diploma (PBD) in their particular area of study.

Learning Options

Limited-entry
Full-time or part-time study is available.
On-campus: Offered on the main campus of TRU in Kamloops.
Program start dates: Students may enter the program in the fall or winter semester.

Program Overview

PBDs in Tourism are designed for students with undergraduate degrees in other fields who want to acquire specialty knowledge in a functional area of tourism.

The course work is predominantly upper-level courses from the Bachelor of Tourism Management, but results in a shorter completion time than taking the full degree. Programs range between 39 and 54 credits.

Admission Requirements

An undergraduate degree from any discipline.

Each tourism PBD program has different English requirements, as outlined below:

The Adventure Studies program requires a university-level English academic composition course (C+ minimum) or equivalent, e.g. ENGL 1100.

The Innovation and Entrepreneurship in Tourism, Managing Festivals and Events, Resort Experience Management, Tourism Destination Development, and Tourism Experience Management programs require demonstrated English language proficiency.

Students who have completed their studies in a country where English is not an official language will be required to provide proof of English language proficiency:
tru.ca/campus/admissions/international/admission-requirements.

Application Process

Students apply online at tru.ca/apply.

Program Requirements

Post-Baccalaureate Diploma in Adventure Studies

Core (24 credits)	
TMGT 1110	Introduction to Tourism
TMGT 1150	Marketing and Customer Service
TMGT 3050	Research in Tourism (NOTE: pre-requisite)
ADVG 3110	Adventure Activities (NOTE: activity fee)

ADVG 3130	Adventure Operations
ADVG 4010	Business Applications for Eco and Adventure Tourism Management
ADVG 4020	Legal Liability and Risk Management for Eco and Adventure Businesses
ADVG 4220	The Culture of Adventure
Adventure Studies Electives (select 6 credits in total)	
ADVG 1000-2000 year level	Select from Adventure Studies field courses with the assistance of the Adventure Studies program coordinator.
	Examples include kayaking, skiing, rock climbing, ocean surfing, etc.
Specialization – select three of the following (9 credits) :	
ADVG 4030	Contemporary Perspectives in the Eco and Adventure Industry
ADVG 4040	Programming Experiential Activities
ADVG 4070	Directed Studies in Adventure
ADVG 4210	Adventure and Sport Marketing
ADVG 4230	Consulting in Adventure
Total Credits—39	

Post-Baccalaureate Diploma in Innovation and Entrepreneurship in Tourism

Core (21 credits)	
CMNS 1810	Business, Professional and Academic Composition
TMGT 1110	Introduction to Tourism
TMGT 1150	Marketing and Customer Service
TMGT 2610	Environmental Issues in Tourism
TMGT 3020	Tourism Policy and Planning
TMGT 3050	Research in Tourism (NOTE: pre-requisite)
TMGT 3000	Practicum in Tourism
Tourism Electives (15 credits)	
Lower-level Elective (3 credits) Choose one from ADVG, EVNT, HMGT, MTST TMGT courses (1000 or 2000 level)	
Upper-level Elective (3 credits) Choose on from ADVG, EVNT, HMGT, MTST, TMGT courses (3000 or 4000 level)	
Theme 1: Culture and Place – select one of the following (3 credits): TMGT 3010, TMGT 4090, TMGT 4100, TMGT 4220, ADVG 4220	
Theme 2: Global Perspectives — select one of the following (3 credits): TMGT 4030, TMGT 4040, TMGT 4160, ADVG 4050, ADVG 4160	
Theme 3: Experience Design – select one of the following (3 credits): TMGT 4010, TMGT 4050, TMGT 4130, TMGT 4170,TMGT 4180, TMGT 4210, ADVG 4040, ADVG 4200	
Specialization (18 credits)	
TMGT 3030	Financial Management for Tourism
TMGT 4010	Experience Creation and Product Development
TMGT 4110 or TMGT 4130	Innovation and Leadership in Tourism or Tourist Behaviour
TMGT 4120 or TMGT 4140	Developing New Tourism Enterprises **or** Tourism Strategy
TMGT 4150	Managing Small Tourism Enterprises
TMGT 4800 **or** TMGT 4020	Tourism Enterprise Consulting Project (Capstone) **or** Graduating Seminar (Capstone)
Total Credits—54	

Post-Baccalaureate Diploma in Managing Festivals and Events

Core (21 credits)	
CMNS 1810	Business, Professional and Academic Composition
TMGT 1110	Introduction to Tourism
TMGT 1150	Marketing and Customer Service
TMGT 2610	Environmental Issues in Tourism
TMGT 3020	Tourism Policy and Planning
TMGT 3050	Research in Tourism (NOTE: pre-requisite)
TMGT 3000	Practicum in Tourism
Tourism Electives (15 credits)	
Lower-level Elective (3 credits) Choose one from ADVG, EVNT, HMGT, MTST, TMGT courses (1000 or 2000 level)	
Upper-level Elective (3 credits) Choose one from ADVG, EVNT, HMGT, MTST, TMGT courses (3000 or 4000 level)	
Theme 1: Culture and Place – select one of the following (3 credits) TMGT 3010, TMGT 4090, TMGT 4100, TMGT 4220, ADVG 4220	
Theme 2: Global Perspectives — select one of the following (3 credits) TMGT 4030, TMGT 4040, TMGT 4160, ADVG 4050, ADVG 4160	
Theme 3: Experience Design – select one of the following (3 credits) TMGT 4010, TMGT 4050, TMGT 4130, TMGT 4170, TMGT 4180, TMGT 4210 ADVG 4040, ADVG 4200	
Specialization (18 credits)	
EVNT 3800	Event Logistics
TMGT 4010	Experience Creation and Product Development
TMGT 4050	Event Tourism
TMGT 4090	The Culture of Events
TMGT 4980	Special Topics in Tourism – The Olympics, Mega-Events and Sports Tourism
EVNT 4800	Managing the Event Experience (Capstone)
Total Credits—54	

Post-Baccalaureate Diploma in Resort Experience Management

Core (21 credits)	
CMNS 1810	Business, Professional and Academic Composition
TMGT 1110	Introduction to Tourism
TMGT 1150	Marketing and Customer Service
TMGT 2610	Environmental Issues in Tourism
TMGT 3020	Tourism Policy and Planning
TMGT 3050	Research in Tourism (NOTE: pre-requisite)
TMGT 3000	Practicum in Tourism
Tourism Electives (15 credits)	
Lower-level Elective (3 credits) Choose one from ADVG, EVNT, HMGT, TMGT courses (1000 or 2000 level)	
Upper-level Elective (3 credits) Choose one from ADVG, EVNT, HMGT, MTST, TMGT courses (3000 or 4000 level)	
Theme 1: Culture and Place – select one of the following (3 credits) TMGT 3010, TMGT 4090, TMGT 4100, TMGT 4220, ADVG 4220	
Theme 2: Global Perspectives - select one of the following (3 credits) TMGT 4030, TMGT 4040, TMGT 4160, ADVG 4050, ADVG 4160	
Theme 3: Experience Design – select one of the following (3 credits) TMGT 4010, TMGT 4050, TMGT 4130, TMGT 4170, TMGT 4180, TMGT 4210 ADVG 4040, ADVG 4200	

Specialization (18 credits)	
HMGT 3000	Resort Hospitality Operations and Performance
TMGT 4030	Resort Management
TMGT 4050	Event Tourism
TMGT 4150	Managing Small Tourism Enterprises
TMGT 4170 or TMGT 4180	Information Technology and Tourism or Managing the Tourist Experience
HMGT 4800 **or** TMGT 4020	Resort Management Case Study (Capstone) **or** Graduating Seminar
Total Credits—54	

Post-Baccalaureate Diploma in Tourism Destination Development

Core (21 credits)	
CMNS 1810	Business, Professional and Academic Composition
TMGT 1110	Introduction to Tourism
TMGT 1150	Marketing and Customer Service
TMGT 2610	Environmental Issues in the Tourism Industry
TMGT 3020	Tourism Policy and Planning
TMGT 3050	Research in Tourism (NOTE: pre-requisite)
TMGT 3000	Practicum in Tourism
Tourism Electives (15 credits)	
Lower-level Elective (3 credits) Choose one from ADVG, EVNT, HMGT, MTST, TMGT courses (1000 or 2000 level)	
Upper-level Elective (3 credits) Choose one from ADVG, EVNT, HMGT, MTST, TMGT courses (3000 or 4000 level)	
Theme 1: Culture and Place – select one of the following (3 credits) TMGT 3010, TMGT 4090, TMGT 4100, TMGT 4220, ADVG 4220	
Theme 2: Global Perspectives – select one of the following (3 credits) TMGT 4030, TMGT 4040, TMGT 4160, ADVG 4050, ADVG 4160	
Theme 3: Experience Design – select one of the following (3 credits) TMGT 4010, TMGT 4050, TMGT 4130, TMGT 4170, TMGT 4180, TMGT 4210,ADVG 4040, ADVG 4200	
Specialization (18 credits)	
EVNT 2190	Destination Marketing Organizations
TMGT 3010	Community and Cultural Issues in Tourism
TMGT 3040 or TMGT 4040	Land Use Management or Tourism and Sustainable Development
TMGT 4120 or TMGT 4140	Developing New Tourism Enterprises or Tourism Strategy
Specialty Elective (one of the following)	TMGT 2080, TMGT 2090, TMGT 4030, TMGT 4050 or ADVG 4090
TMGT 4020	Graduating Seminar (Capstone)
Total Credits–54	

Post-Baccalaureate Diploma in Tourism Experience Management

Core (21 credits)	
CMNS 1810	Business, Professional and Academic Composition
TMGT 1110	Introduction to Tourism
TMGT 1150	Marketing and Customer Service
TMGT 2610	Environmental Issues in the Tourism Industry
TMGT 3020	Tourism Policy and Planning
TMGT 3050	Research in Tourism (NOTE: pre-requisite)
TMGT 3000	Practicum in Tourism
Tourism Electives (15 credits)	
Lower-level Elective (3 credits) Choose one from ADVG, EVNT, HMGT, MTST, or TMGT courses (1000 or 2000 level)	
Upper-level Elective (3 credits) Choose one from ADVG, EVNT, HMGT, MTST, or TMGT courses (3000 or 4000 level)	
Theme 1: Culture and Place – select one of the following (3 credits) TMGT 3010, TMGT 4090, TMGT 4100, TMGT 4220, ADVG 4220	
Theme 2: Global Perspectives – select one of the following (3 credits) TMGT 4030, TMGT 4040, TMGT 4160, ADVG 4050, ADVG 4160	
Theme 3: Experience Design – select one of the following (3 credits) TMGT 4010, TMGT 4050, TMGT 4130,TMGT 4170, TMGT 4180, TMGT 4210, ADVG 4040, ADVG 4200	
Specialization - select five of the following (15 credits)	
TMGT 4010	Experience Creation and Product Development
TMGT 4100	The Social Side of Tourism
TMGT 4130	Tourist Behaviour
TMGT 4040	Tourism and Sustainable Development
TMGT 4170	Information Technology and Tourism
TMGT 4160	Tourism in a Global Environment
TMGT 4180	Managing the Tourist Experience
TMGT 4050	Event Tourism
TMGT 4090	The Culture of Events
TMGT 4210	Casino Operations Management
ADVG 4040	Programming Experiential Activities
ADVG 4160	Tour Operations
Capstone (3 credits)	
TMGT 4020	Graduating Seminar
Total Credits—54	

Program Policies

To remain in the Tourism PBD programs after admission:

- students must maintain a cumulative CGPA of at least 2.0 (calculated using PBD courses only)
- students cannot repeat a course more than twice; and,
- students failing to meet the CGPA requirements will be placed on a learning contract.

A maximum of 50% of the program credit requirements can be fulfilled by transfer credit.

Graduation Requirements: Successful completion of program credits with a minimum CGPA of 2.0 is required (calculated using PBD courses only).

Program Contact

Email tourismadvising@tru.ca | Phone 250-828-5366

Events and Conventions Management Diploma

A two-year undergraduate program. Graduates receive an Events and Conventions Management Diploma.

Learning Options

Limited-entry
Full-time or part-time study is available.
On-campus: Courses are offered at the TRU Kamloops campus.

Program Start: Fall semester is preferred.

Program Overview

Some industry experts consider the special event and group business area to be the fastest growing segment of the Canadian tourism industry. This program is designed to provide a practical overview of the function, skills, and knowledge required to successfully plan, organize, manage, promote, and evaluate a festival, convention, trade show, or special event.

Event planning is a very detail-oriented business. As a result, this program will appeal to individuals who have a high regard for details and the creative ability to manage special events and conventions from inception to fruition.

Special events and conventions are being recognized as great generators of money into a community. Because of this, there is a tremendous increase in the number of convention facilities being built in Canada and abroad. Employment opportunities exist in corporations, associations, hotels and resorts, convention centres, municipal convention and visitors' bureaus, and destination management companies. As well, there are plenty of opportunities for graduates with an entrepreneurial spirit to start their own business.

All courses provide a blend of theory and practice. Assignments introduce students to current management issues with local, regional, national and international tourism businesses and organizations. These assignments are designed to give students the skill and confidence to develop their own tourism businesses and fill the growing need for managers in the tourism industry.

Learning Experiences

Work Experience
To meet all requirements for graduation, students are required to complete a minimum of 500 hours of documented, tourism-related work experience supported by industry references indicating capable performance. If this requirement is not met upon admission, it must be completed prior to the completion of course work.

Field Trips
This program includes mandatory field experiences. This component has been included so that students can better understand some of the concepts discussed in class. While costs will be kept to a minimum, students are required to contribute to the overall cost of field trips via activity fees.

International Experiences

Students can incorporate global learning experiences through a wide range of international opportunities, including field schools and exchange programs with partner institutions worldwide.

For more information, visit: tru.ca/studyabroad.

Students can seek formal recognition for their intercultural and international learning experiences through the Global Competency Certificate. For more information, visit: tru.ca/global-competency.

Admission Requirements

1. BC Grade 12 or equivalent or mature student status
2. English 12/English 12 First Peoples with a minimum of 73% or equivalent
3. Foundations of Math 11 or Pre-calculus 11 with a minimum C or Foundations of Math 12 with a minimum C or equivalent.

Students with Pre-calculus 12 or Foundations of Math 12 with a minimum C+ will be exempt from MATH 1100, and must make up the 3 credits with and elective of their choice.

Students who have completed their studies in a country where English is not an official language will be required to provide proof of English language proficiency. For more information, visit: tru.ca/campus/admissions/international/admission-requirements

Computer Skills
If students entering the program have little or no experience using computers, they are advised to take an introductory computer course that familiarizes them with Microsoft application software.

Application Process

Students apply online at tru.ca/apply.

Program Requirements

Year One		
Course	**Course Title**	**Credits**
Fall semester		
CMNS 1810	Business, Professional and Academic Composition	3
EVNT 1100	The World of Events	3
MATH 1100	Finite Mathematics with Applications I	3
TMGT 1110	Introduction to Tourism	3
TMGT 1160	Organizational Leadership in Tourism	3
Winter semester		
ACCT 1000	Financial Accounting	3
HMGT 1110	Catering and Service Management	3
JOUR 2060	Introduction to Multimedia	3
TMGT 1140	Human Resources Management	3
TMGT 1150	Marketing and Customer Service	3
Total Credits Year 1		**30**
Year Two		
Course	**Course Title**	**Credits**
Fall Semester		
ECON 1220	Introduction to Basic Economics	3
EVNT 2100	Conference Management	3

EVNT 2260	Managing Festivals and Events	3
TMGT 2010	Financial Operations Control in Tourism	3
TMGT 2250	Hospitality Law	3
Winter semester		
EVNT 2070	Staging Special Events	3
EVNT 2170	Fundraising for Non-profit Organizations	3
EVNT 2500	Field Experience (NOTE: activity fee)	3
HMGT 2120	Hotel Sales and Service	3
TMGT 2590	Entrepreneurship	3
Total Credits Year 2		**30**
Total Program Credits		**60**
NOTE: In order to receive the Events and Conventions Management Diploma, students must complete a minimum of 500 hours of relevant work experience in the tourism industry before graduating.		

Laddering Credits to Other Programs

Graduates of the Events and Conventions Management Diploma may apply up to 60 credits towards the Bachelor of Tourism Management degree. This means that graduates of this diploma may complete the Bachelor of Tourism Management degree in as little as two additional years of study. Contact the Program Advisor for details.

Program Policies

Students must meet TRU's residency policy. Exceptions to this policy may be granted in advance to students involved in academic exchanges with other post-secondary institutions.

To remain in this program after admission:

- students must maintain a cumulative GPA of at least 2.00 (calculated using program courses only)
- students cannot repeat a course more than twice; and
- students failing to meet the CGPA requirements will be placed on a learning contract.

Graduation Requirements: Successful completion of 60 credits with a minimum CGPA of 2.0 (calculated using program courses only). Students are required to complete a minimum of 500 hours of tourism-related work experience.

Program Contact

Email tourismadvising@tru.ca | Phone 250-828-5366

Resort and Hotel Management Diploma

A two-year undergraduate diploma program. Graduates receive a Resort and Hotel Management Diploma.

Learning Options

Limited-entry
Part-time or full-time study is available.
On-campus: Courses are offered at the TRU Kamloops campus.
Program start date: Fall semester is preferred.

Program Overview

This two-year diploma program is designed to provide the theory and practical skills essential to begin a career in Resort and Hotel Management.

Courses in this diploma provide instruction in Hotel Operations, Food and Beverage Management and Hospitality Administration. Through the use of lecture, fieldwork, case studies and practical applications, students gain insight into management and operations in this dynamic field. In addition to hospitality-related courses, students gain experience in computer applications, accounting, finance, cost control, marketing and business communications. Building on this knowledge enables students to develop the abilities, skills and attitudes to analyze situations objectively and to then make effective management decisions. The guiding principle of the Resort and Hotel Management program is student-centred involvement through project-based learning. Graduates from this program, will have a well-rounded understanding of the industry that will increase their employability.

Tourism programs at TRU have the strong support and commitment of the hospitality industry. Courses have been developed with consultation and continued input from professionals working in resorts and hotels. Graduates have found employment in a variety of resorts and hotels throughout the world. Employment opportunities for students are often developed by work experience opportunities that have been built into our diploma program.

Hospitality and tourism as a profession can be exciting, challenging and rewarding. Students with high standards, a commitment to success and a strong guest service focus will find infinite, diverse possibilities for fulfilling careers in this industry.

Learning Experiences

Work experience

To meet all requirements for graduation, students are required to complete a minimum of 500 hours of documented, tourism-related work experience supported by industry references indicating capable performance. If this requirement is not met upon admission, it must be completed prior to the completion of your course work.

Field trips

This program includes mandatory field experiences. This component has been included so that students can better understand some of the concepts discussed in class. While costs will be kept to a minimum, students are required to contribute to the overall cost of field trips via activity fees.

International Experiences

Students can incorporate global learning experiences through a wide range of international opportunities, including field schools and exchange programs with partner institutions worldwide. For more information, visit: tru.ca/studyabroad.

Students can seek formal recognition for their intercultural and international learning experiences through the Global Competency Certificate. Visit tru.ca/campus/beyond/global for more information.

Admission Requirements

1. BC Grade 12 or equivalent or mature student status.
2. English 12/English 12 First Peoples with a minimum 73% or equivalent.
3. Foundations of Math 11 or Pre-calculus 11 with a minimum C or equivalent or Foundations of Math 12 with a minimum C or equivalent.

NOTE: Students with Pre-calculus 12 with a minimum C+ will be exempt from MATH 1100 and must make up the credits with an elective of their choice.

Students who have completed their studies in a country where English is not an official language will be required to provide proof of English language proficiency. For more information visit: https://www.tru.ca/future/admissions/international.html

Computer skills: If students entering the program have little or no experience using computers, they are advised to take an introductory computer course that familiarizes them with Microsoft application software.

Application Process

Students apply online at tru.ca/admissions

Program Requirements

Year One		
Course	**Course Title**	**Credit**
Fall semester		
CMNS 1810	Business, Professional and Academic Composition	3
HMGT 1110	Catering and Service Management	3
MATH 1100	Finite Mathematics with Applications I	3
TMGT 1110	Introduction to Tourism	3
TMGT 1160	Organizational Leadership in Tourism	3
Winter semester		
ACCT 1000	Financial Accounting	3
HMGT 1210	Food and Beverage Preparation	3
HMGT 1410	Hotel Operations 1	3
JOUR 2060	Introduction to Multimedia	3
TMGT 1150	Marketing and Customer Service	3
Total Credits Year 1		**30**

Year Two		
Course	**Course Title**	**Credit**
Fall semester		
HMGT 2210	Food and Beverage Management	3
HMGT 2510	Hotel Operations 2	3
TMGT 1140	Human Resources Management	3
TMGT 2010	Financial Operations Control in Tourism	3
TMGT 2250	Hospitality Law	3
Winter Semester		
ECON 1220	Introduction to Basic Economics	3
HMGT 2100	Food and Beverage Cost Control	3
HMGT 2120	Hotel Sales and Services	3
HMGT 2500	Field Experience (NOTE: activity fee)	3
HMGT 2610	Resort and Hotel Operations	3
Total Credits Year 2		**30**
Total Program Credits		**60**
NOTE: In order to receive the Resort and Hotel Management Diploma, students must complete a minimum of 500 hours of relevant work experience in the tourism industry before graduating.		

Laddering credits to other programs

Graduates of the Resort and Hotel Management Diploma may apply up to 60 credits towards the Bachelor of Tourism Management degree. This means that graduates of this diploma may complete the Bachelor of Tourism Management degree in as little as two additional years of study. Contact the Program Advisor for details.

Program Policies

Students must meet TRU's residency policy. Exceptions to this policy may be granted with prior approval to students involved in academic exchanges with other post-secondary institutions.

To remain in this program after admission:

- students must maintain a cumulative GPA of at least 2.00 (calculated using program courses only).
- students cannot repeat a course more than twice; and
- students failing to meet the CGPA requirements will be placed on a learning contract.

Graduation requirements: Successful completion of 60 credits with a minimum CGPA of 2.0 (calculated using program courses only). Students are required to complete a minimum of 500 hours of tourism-related work experience.

Program Contact

Email tourismadvising@tru.ca | Phone 250-828-5366

Sport Event Management Diploma

A two-year undergraduate diploma program. Graduates receive a Sport Event Management Diploma.

Learning Options

Limited admission

Part-time or full-time study is available.
On-campus: Courses are offered at the Kamloops campus.
Program start date: Fall semester is preferred.

Program Overview

This two-year diploma is designed to prepare graduates for a variety of positions in the sports event industry. Gain the business skills and event management expertise required to organize and market sports events, recruit and motivate volunteers and find sponsors at the corporate, professional or amateur level.

Tourism associations and destination management organizations realize the potential for attracting sports events to their community so, opportunities exist for graduates with these types of organizations.

Students are introduced to the importance of sporting events in Canadian culture.

Learning Experiences

Work Experience
To meet all requirements for graduation, students are required to complete a minimum of 500 of hours of documented, tourism-related work experience supported by industry references indicating capable performance. If this requirement is not met upon admission, it must be completed prior to the completion of your course work.

Field Trips
This program includes mandatory field experiences. This component has been included so that students can better understand some of the concepts discussed in class. While costs will be kept to a minimum, students are required to contribute to the overall cost of field trips via activity fees.

International Experiences

Students can incorporate global learning experiences through a wide range of international opportunities, including field schools and exchange programs with partner institutions worldwide. For more information, visit: tru.ca/studyabroad.

Students can seek formal recognition for their intercultural and international learning experiences through the Global Competency Certificate. Visit tru.ca/campus/beyond/global for more information.

Admission Requirements

1. BC Grade 12 or equivalent or mature student status
2. English 12/English 12 First Peoples with a minimum of 73% or equivalent
3. Foundations of Math 11 or Pre-calculus 11 or Foundations of Math 12 with a minimum C or equivalent

NOTE: Students with Pre-calculus 12 or Foundations of Math 12 with a minimum C+ will be exempt from MATH 1100 and must make up the 3 credits with an elective of their choice.

Students who have completed their studies in a country where English is not an official language will be required to provide proof of English language proficiency. Visit: tru.ca/future/admissions/international for more information.

Computer Skills: If students entering the program have little or no experience using computers, they are advised to take an introductory computer course that familiarizes them with Microsoft application software.

Application Process

Students apply online at tru.ca/apply.

Program Requirements

Year One		
Course	**Course Title**	**Credit**
Fall semester		
CMNS 1810	Business, Professional and Academic Composition	3
EVNT 1100	The World of Events	3
MATH 1100	Finite Math with Applications 1	3
TMGT 1110	Introduction to Tourism	3
TMGT 1160	Organizational Leadership in Tourism	3
Winter semester		
ACCT 1000	Financial Accounting	3
HMGT 1110	Catering and Service Management	3
JOUR 2060	Introduction to Multimedia	3
PHED 2110	An Introduction to the Study of Sport	3
TMGT 1150	Marketing and Customer Service	3
Total credits Year 1		**30**
Year Two		
Course	**Course Title**	**Credit**
Fall semester		
ECON 1220	Introduction to Basic Economics	3
EVNT 2240	Sports Event Management	3
PHED 2140	Psychology of Sport and Physical Activity	3
TMGT 2010	Financial Operations Control in Tourism	3
TMGT 2250	Hospitality Law	3
Winter semester		
EVNT 2070	Staging Special Events	3
EVNT 2170	Fundraising for Non-profit Organizations	3
EVNT 2250	Sports Event Marketing	3
TMGT 1140	Human Resources Management	3
	Select 1 of 3 options	3
EVNT 2500 PHED 2130 TMGT 2590	Field Experience (NOTE: activity fee) Sport in Canadian Society Entrepreneurship	
Total credits Year 2		**30**
Total program credits		**60**
NOTE: In order to receive the Sports Event Management Diploma, students must complete a minimum of 500 hours of tourism-related work experience in the tourism industry before graduating.		

Laddering Credits to Other Programs

Graduates of the Sports Event Management Diploma may apply up to 60 credits towards the Bachelor of Tourism Management degree. This means that graduates of this diploma may complete the Bachelor of Tourism Management degree in as little as two additional years of study. Contact the Program Advisor for details.

Program Policies

Students must meet TRU's residency policy. Exceptions to this policy may be granted with prior approval to students involved in academic exchanges with other post-secondary institutions.

To remain in this program after admission:

- students must maintain a cumulative GPA of at least 2.00 (calculated using program courses only)
- students cannot repeat a course more than twice; and
- students failing to meet the CGPA requirements will be placed on a learning contract

Graduation Requirements: Successful completion of 60 credits with a minimum CGPA of 2.0 (calculated using program courses only). Students are required to have completed a minimum of 500 hours of tourism-related work experience for graduation.

Program Contact

Email tourismadvising@tru.ca | Phone 250-828-5366

Tourism Management Diploma

A two-year undergraduate program. Graduates receive a Tourism Management Diploma.

Learning Options

Limited admission
Part-time or full-time study is available.
On-campus: Courses are offered at the Kamloops campus.
Program start date: Students enter the program in the fall or winter semesters.

Program Overview

The Tourism Management Diploma comprises the first two years of the Bachelor of Tourism Management degree.

Students enrolled in the Bachelor of Tourism Management degree program who wish to exit the program upon completion of year 2 may obtain a TRU Tourism Management Diploma by:

- Completing a request at the Registrar's Office for the "Tourism Management Diploma."
- Meeting the Tourism Management Diploma program requirements, with a minimum of 60 credits.

Learning Experiences

Work Experience
To meet all requirements for graduation, students must have a minimum of 500 hours of documented, tourism-related work experience supported by industry references indicating capable performance. If this requirement is not met upon admission, it must be completed prior to the completion of your course work.

International Experiences

Students can incorporate global learning experiences through a wide range of international opportunities, including field schools and exchange programs with partner institutions worldwide. For more information, visit: tru.ca/studyabroad.Study Abroad.

Students can seek formal recognition for their intercultural and international learning experiences through the Global Competency Certificate. Visit tru.ca/global for more information.

Admission Requirements

1. BC Grade 12 or equivalent or mature student status
2. English 12/English 12 First Peoples with a minimum 73% or equivalent
3. Foundations of Math 11 or Pre-calculus 11 or Foundations of Math 12 with a minimum C or equivalent.

Students with Foundations of Math 12 or Pre-calculus 12 with a minimum C+ will be exempt from MATH 1100 and must make up the 3 credits with an elective of their choice.

Students who have completed their studies in a country where English is not an official language will be required to provide proof of English language proficiency. For more information visit: tru.ca/future/admissions/international/admission-requirements

Computer Skills: If students entering the program have little or no experience using computers, they are advised to take an introductory computer course that familiarizes them with Microsoft application software.

Application Process

Students apply online at tru.ca/apply

Program Requirements

Year One		
Course	**Course Title**	**Credit**
Fall semester		
CMNS 1810	Business, Professional and Academic Composition	3
MATH 1100	Finite Math with Applications 1	3
TMGT 1110	Introduction to Tourism	3
TMGT 1160	Organizational Leadership in Tourism	3
Tourism Elective #1	All electives must be Tourism Courses: EVNT, HMGT, TMGT	3
Winter semester		
ACCT 1000	Financial Accounting	3
JOUR 2060	Introduction to Multimedia	3
TMGT 1140	Human Resource Management	3

TMGT 1150	Marketing and Customer Service	3
TMGT 2060	People, Places and the Toured Landscape	3
Total credits Year 1		**30**
Year Two		
Course	**Course Title**	**Credit**
Fall semester		
ECON 1220	Introduction to Basic Economics	3
TMGT 2010	Financial Operations Control in Tourism	3
TMGT 2250	Hospitality Law	3
Tourism Elective #2	Student's choice	3
Tourism Elective #3	Student's choice	3
Winter Semester		
ECON 2220	Economics for Tourism, Recreation and Leisure	3
EVNT 2190 or EVNT 2250 or HMGT 2120	Destination Marketing or Sports Event Marketing or Hotel Sales and Services	3
GEOG 2700	Introduction to Geographical Analysis (	3
TMGT 2610	Environmental Issues in the Tourism Industry	3
Tourism Elective #4	Students choice	3
Total Credits Year 2		**30**
Total Program Credits		**60**
NOTE: In order to receive the Tourism Management Diploma, students must complete a minimum of 500 hours of tourism-related work experience in the tourism industry before graduating.		

NOTE: Of the student's 12 credits of electives, 3 credits must be taken in each of the EVNT and HMGT areas of study. The final 6 credits of electives can come from TMGT, EVNT, HMGT, or ADVG.

Laddering Credits to Other Programs

Graduates of the Tourism Management Diploma may apply up to 60 credits towards the Bachelor of Tourism Management degree. This means that graduates of this diploma may complete the Bachelor of Tourism Management degree in as little as two additional years of study. Contact the Program Advisor for details.

Program Policies

Students must meet TRU's residency policy. Exceptions to this policy may be granted with prior approval to students involved in academic exchanges with other post-secondary institutions.

To remain in this program after admission:

- students must maintain a cumulative CGPA of at least 2.00 (calculated using program courses only)
- students cannot repeat a course more than twice; and
- students failing to meet the CGPA requirements will be placed on a learning contract

Graduation requirements: Successful completion of 60 credits with a minimum CGPA of 2.0 (calculated using program courses only). Students are required to complete a minimum of 500 hours of tourism-related work experience. Of the student's 12 credits of electives, 3 credits must be taken in each of the EVNT and HMGT areas of study. The final 6 credits of electives can come from TMGT, EVNT, HMGT, or ADVG.

Program Contact

Email tourismadvising@tru.ca | Phone 250-828-5366

Adventure Guide Certificate

The Adventure Guide Certificate program is an eight-month introduction to adventure guiding and the adventure industry. Graduates receive an Adventure Guide Certificate.

Learning Options

Full-time: The program is offered on a full-time basis.
On-campus: The program is offered at the Kamloops campus. Field courses are held across western Canada, western USA and in international locations such as Ecuador, Chile, Nepal and Tibet.
This program is also offered by the Keilir Health Academy in Iceland.
Program start date: The program begins at the end of August or early September each year. Contact the Adventure Studies Department by email at adventure@tru.ca to confirm start dates.

Program Overview

This is the ideal program for entry-level adventure students wishing to explore their career interests in adventure-related fields.

The Adventure Guide Certificate program provides students with a solid foundation in adventure activities. The program allows for extensive time engaged in field activity courses and compressed and modularized classroom course instruction.
The certificate program is an introduction to adventure guiding and adventure industry training and is ideal for entry-level adventure studies. The program provides the opportunity to explore career interests in adventure related fields.

Students who wish to continue their adventure studies at TRU may ladder directly into the Adventure Guide Diploma.

Areas of study
The Adventure Guide Certificate will give you the skills, knowledge and experiences leading to a broader understanding in the adventure industry and leadership within. Applied and practical modularized classroom courses are offered in wilderness travel, wilderness first aid, guiding leadership, wilderness environment, expedition planning and the adventure industry.

Leadership, risk management and technical skills are built within the following adventure areas:

Hiking	Ski Touring and Avalanche Education
Canoeing	Ski and Snowboard Instruction

Mountaineering	Rock Climbing
Sea Kayaking	Surfing
Swift Water Rescue	White Water Rafting
	White Water Kayaking

International Opportunities

TRU offers - in cooperation with Keilir Health Academy in Iceland – an eight-month university program for Adventure Guides. Please see more information at Keilir Health Academy.

Industry Certification

In addition to receiving the Adventure Guide Certificate, graduates of the program may be able to seek industry certification as guides or instructors in a variety of areas. Certification is dependent on the graduate's ability to meet the standard of the individual certifying organization.

Certifying Body	Certification
Avalanche Canada	Avalanche Skills Training
British Columbia River Outfitters Association	Oar Paddle
Canadian Association of Snowboard Instructors	Snowboard Instructor Level 1
Canadian Avalanche Association	Avalanche Operations Level 1
Canadian Ski Instructors Alliance	Level 1 Instructor
International Rafting Federation	Guide 2 Guide 3
Paddle Canada	Canoe Lake Tandem Instructor Sea Kayak Skills 2
Parks Canada	Professional Hiking Guide
Rescue Canada	Swiftwater Rescue Technician 3
Sea Kayak Guides Alliance of British Columbia	Level One Guide Assistant Overnight Guide
Transport Canada	Restricted Marine Radio Operators License
Wilderness Medical Associates International	Wilderness First Responder (80-hour)

Program costs

Due to the high level of course delivery, the high instructor-student ratios used, and the associated costs with operating a program of superior quality, tuition and activity fees for the program average $10,000 - $12,000 per year. This may vary with individual student course selection and the number of activity courses chosen.

International applicants may read about fees here: tru.ca/adventure.

There may also be additional costs on the self-directed expeditions.

Additional costs

Students will incur additional costs for acquiring food while in Kamloops and on course trips, accommodation while in Kamloops, purchasing or renting personal equipment, and purchasing textbooks and maps.

Students are also responsible for some costs incurred during the spring self-directed expeditions. The first-year expedition is a required course. A second expedition may be undertaken as an elective in the final year. Expeditions may be provincial, national, or international in nature depending upon students' requests.

Clothing and Equipment

The Adventure Studies Department manages an equipment bay with rock climbing, sea kayaking, white-water kayaking, rafting, skiing, avalanche, mountaineering, rescue, and camping equipment. Adventure Studies students have free access to this extensive equipment resource and may wish to consult with program faculty before making any personal equipment purchases.

Students are required to provide their personal clothing and some equipment, such as footwear, sleeping bag, backpack and other equipment as necessary.

Group equipment as well as (stoves, avalanche transceivers, climbing equipment, canoe and kayak equipment, and tents) is provided.

Admission Requirements

Applicants must be a minimum *of* **19 years of age** at the start of the program.

Academic Requirements

1. Completion of English 12 or equivalent
2. Completion of Math 11 or equivalent

Applicants also:

- attend a program information session
- complete the Adventure Studies Department Student Information Form and Supplemental Documents

Fitness, Health, and Medical

The program is physically demanding. Students must arrive in good physical condition suitable for participating in strenuous outdoor activities.

A Medical Questionnaire form will be forwarded to applicants from the department office upon acceptance to the program. This form must be completed and returned to the program. Students must possess medical insurance and will be required to have additional coverage for any course held in other countries, including the United States.

Exemptions

Exemptions to admission requirements may be granted by the Chairperson of the Adventure Studies Department.

Program Information Sessions

All students wishing to apply for Adventure Studies programs *must attend a program information session (in person or by phone).*

Program information sessions provide important information about Adventure Studies programs, courses, entrance requirements, and admission procedures. Prospective students have an opportunity to ask questions about the programs.

Information sessions are held between September and April by telephone and at various locations throughout Canada. Dates and locations available at tru.ca/adventure.

To register for an information session, please contact the Adventure Studies Department by email at adventure@tru.ca or by phone 250-828-5221.

Application Process

The Adventure Guide Certificate is a competitive entry program. Prospective students must apply to TRU Admissions for entry to the university.

To apply to the Adventure Guide Certificate program**,** please submit the following to the Adventure Studies Department:

- Completed Adventure Studies Department supplemental application documents available from Apply to the Adventure Studies Department
- Official transcripts from all secondary and post-secondary education
- Verification of attendance at a program information session (will be sent by the department to the Admissions Office)

Applicants should submit each piece of documentation as soon as it is completed or becomes available.

Interview

After the applications are reviewed, some individuals may be asked to attend an interview with faculty of the Adventure Studies Department to help determine the applicant's readiness for admission.

Admission interviews may be conducted at TRU, by telephone, or by video conferencing.

Acceptance into the Program

Written notice is given by the TRU Admissions office to applicants who have been accepted into a program offered by the Adventure Studies Department.

Once accepted, a tuition deposit of $500 is required by the deadline indicated in your Offer Letter to secure a place in the program. This deposit will be applied to the first semester's tuition.

Newly admitted students must submit:

- a completed Adventure Studies Medical Form
- a signed Adventure Studies Department Liability Waiver Assumption of Risk, and Indemnifying Release Form
- Language Proficiency Index (LPI) results, if required

Program Requirements

Adventure Guide Certificate	
ADVG 1010	The Adventure Tourism Industry
ADVG 1020	Wilderness Travel
ADVG 1050	Guiding Leadership 1
ADVG 1530	Kayak 1 (field course)
ADVG 1570	Rock Climbing (field course)
ADVG 2010	The Natural Environment
ADVG 2030	Advanced Wilderness First Aid
ADVG 2830	International Expedition Planning and Leadership
Choose a minimum of **one** of the following: (2 credits) ADVG 1560-2 Ski Touring 1 ADVG 1580-2 Mountaineering 1	
Choose a minimum of **one** of the following: (2 credits) ADVG 1510-2 Flatwater Canoe Instructor ADVG 2640-2 Sea Kayak 1 ADVG 2660-2 River Rafting 1	
Two or more electives from ADVG (4 credits)	
Total minimum credits required to graduate = 30 Credits	

Elective field course choices for Adventure Students must take a minimum of 4 credits		
ADVG 1510	Flatwater Canoe Instructor	2
ADVG 1550	Ski Skills	1
ADVG 1560	Ski Touring 1	2
ADVG 1580	Mountaineering 1	2
ADVG 1590	Avalanche 1	2
ADVG 1600	Swiftwater Rescue Technician	2
ADVG 2070	Ocean Surfing 1	2
ADVG 2080	Snowboard Instructor Level 1	1
ADVG 2260	Ocean Surfing 2	2
ADVG 2450	Alpine Ski Instructor 1	1
ADVG 2490	Kayak 2	2
ADVG 2640	Sea Kayaking 1	2
ADVG 2650	Sea Kayaking 2	3
ADVG 2660	River Rafting 1	2
ADVG 2750	River Rafting 2	2

Program Contact

Email adventure@tru.ca | Phone 250-828-5221

Adventure Guide Diploma

A two-year program offering foundational skills in the adventure tourism industry. Graduates receive an Adventure Guide Diploma. This program begins where the Adventure Guide Certificate program left off, providing students with the opportunity to continue to build their skills and experience in their adventure industry career path.

Learning Options

Full-time, on-campus: The program is offered at the Kamloops campus. Field courses are held across western Canada, western USA and in international locations such as Ecuador, Chile, Nepal and Tibet. The first-year of this program is also offered by the Keilir Health Academy in Iceland.

Program start date: The program begins at the end of August or early September each year. Contact the Adventure Studies Department by email at adventure@tru.ca to confirm start dates.

Program Overview

The Adventure Guide Diploma is an intensive program that prepares students for exciting leadership positions in outdoor skills instruction and guiding. The Adventure Guide Diploma builds upon the technical skills and leadership within each of the program areas in the Adventure Guide Certificate.

Following the form of the Adventure Guide Certificate students will find themselves participating in extensive time engaged in field activity courses and compressed and modularized classroom course instruction.

The private sector is a major supporter of this program through training, certifying, and helping students build a network for future employment.

The diploma provides students with a solid foundation in adventure activities and builds on their previous experience. Skill assessments at the start of the program allow students to plan their electives around developing skills at the most advantageous level.

Graduates work as outdoor skills instructors, mountain or river guides and in other wilderness-related leadership occupations.

The program focuses on a wide range of activities including:

Flat and Moving Water Canoeing	Hiking
Ice Climbing	Mountaineering
Rock Climbing	Sea Kayaking
Ski Touring and Avalanche Education	Ski and Snowboard Instruction
Swift Water Rescue	Surfing
White Water Rafting	White Water Kayaking

Compressed, modularized classroom course instruction complements the seasonal field activities. Theory courses include the following:

- Search and Rescue
- Emergency Management
- Legal Liability
- Business Management
- Accounting
- Customer Service and Marketing
- Expedition Planning
- Instructional Skills

Students who wish to continue their adventure studies at TRU may ladder into the Bachelor of Tourism Management with an Adventure Studies concentration or the Bachelor of Interdisciplinary Studies.

Industry Certification

In addition to receiving the Adventure Guide Diploma, graduates of the program may be able to seek industry certification as guides or instructors in a variety of areas. Certification is dependent on the graduate's ability to meet the standard of the individual certifying organization.

Certifying Body	Certification
Association of Canadian Mountain Guides	Assistant Alpine Guide Climbing Gym Instructor Level 1 Top-Rope Climbing Instructor
Avalanche Canada	Avalanche Skills Training
British Columbia River Outfitters Association, Rafting Guide License	Oar Paddle
British Columbia Provincial Emergency Program	Rope Rescue Technician Search and Rescue Management
Canadian Association of Snowboard Instructors	Snowboard Instructor Level 1
Canadian Avalanche Association	Avalanche Operations Level 1
Canadian Ski Instructors Alliance	Level 1 Instructor
International Industrial Rope Access Trade Association	Level 1 Rope Access Technician
Lifesaving Society of BC	Bronze Medallion Bronze Cross
Paddle Canada	Canoe Moving Water Tandem Instructor Sea Kayak Skills 2

	Sea Kayak Instructor Level 1
Rescue Canada	Swiftwater Rescue Technician Swift water Rescue Specialist
Sea Kayak Guides Alliance of British Columbia	Level 1 Guide Assistant Overnight Guide
Transport Canada	Restricted Marine Operators License
Canoe Kayak British Columbia	Kayak Instructor Level 1 Kayak Instructor/Leader Level 2
Canadian Surf Association	Level 1 Surf Instructor

Program Costs

Due to the high level of course delivery, the high instructor-student ratios used, and the associated costs with operating a program of superior quality, tuition and activity fees for the program average $10,000 - $12,000 per year. This may vary with individual student course selection and the number of activity courses chosen. International applicants should read about fees at tru.ca/adventure.

Additional Costs
Students will incur additional costs for acquiring food and accommodation while in Kamloops, food in the field, purchasing or renting personal equipment, and purchasing textbooks and maps.

There may also be additional costs on the self-directed expeditions.

Clothing and Equipment
The Adventure Studies Department manages an equipment bay with rock climbing, sea kayaking, white water kayaking, rafting, skiing, surfing, avalanche, mountaineering, rescue, and camping equipment. Adventure Program students have free access to this extensive equipment resource. Students are advised to consult with program faculty before making major equipment purchases.

Students are required to provide their personal clothing and some equipment, such as footwear, sleeping bag, backpack and other equipment as necessary.

Admission Requirements

1. Applicants must be a minimum of 19 years of age at the start of the program
2. Successful completion of the Adventure Guide Certificate program.

General: Applicants are required to; attend a Departmental Program Information Orientation session (in person or by phone); complete the Adventure Guide Diploma Application form; and attend an admissions interview.

Recommendations: Applicants to the Adventure Guide Diploma do so based on their technical skill and experience level in at least one adventure sport. Entry is competitive and applications are screened to ensure an adequate level of outdoor recreation experience has been attained prior to entry to TRU.

Fitness, Health, and Medical
The Adventure Guide Diploma program is physically demanding. Students must arrive in good physical condition suitable for participating in strenuous outdoor activities.

The adventure studies department will send applicants a medical questionnaire form upon acceptance to the program. The medical questionnair must be completed and returned to the department as directed.

Students must possess medical insurance, and will be required to have additional coverage for any course held in other countries, including the United States.

Exemptions
Exemptions to admission requirements may be granted by the Chairperson of the Adventure Studies Department.

Application Process

Admission to the Adventure Studies Department is competitive entry.

Applicants must apply to the Adventure Guide Certificate program to enter the Adventure Studies Department.

The Adventure Guide Certificate is a prerequisite to the diploma.
Students interested in the Adventure Guide Diploma must first complete the Adventure Guide Certificate. They then apply to complete a second year in the Adventure Studies Department.

Students apply online at Apply for Admission.

Submit the following to the Adventure Studies Department:

1. Letter of intent which includes how the Diploma will help you attain your goals; the skills and experiences gained from the Certificate, and how these have a positive effect on your learning, leadership, professionalism, your peers, instructors, and the program as a whole.
2. Include your summer work practicum plans and how they fit into your educational and career goals.
3. Fill out and submit an Outdoor Experience Trip Log. This log should contain all outdoor experiences outside of course time during the past year.
4. The department will review and consider student transcripts and GPA for the last year.

Acceptance into the Program

Once accepted to the Adventure Guide Diploma, a TRU application must be completed.

Program Requirements

Adventure Guide Diploma Required Courses **(38 Credits)**	
ACCT 1000	Introduction to Financial Accounting (3)
ADVG 1010	The Adventure Tourism Industry (3)
ADVG 1020	Wilderness Travel (3)
ADVG 1050	Guiding Leadership (3)

ADVG 1110	Emergency Situation, Search and Rescue Management (3)
ADVG 1276	Business and Marketing for Adventure Operations (3)
ADVG 2010	The Natural Environment (3)
ADVG 2030	Advanced Wilderness First Aid (3)
ADVG 2040	The Business of Adventure Tourism (3)
ADVG 2060	Legal Liability and Risk Management (3)
ADVG 2830	International Expedition Planning and Leadership (3)
ADVG 2850	Instructional Skills Workshop (3)
ADVG 1900	Expedition 1 (2)
Choose **one** of the following: **(2 credits)** ADVG 1530 Kayak 1 ADVG 2490 Kayak 2	
Choose **one** of the following **(2 credits)** ADVG 1570 Rock Climbing 1 ADVG 2800 Rock Climbing 3 – Multi Pitch	
Choose **one** of the following : **(2 credits)** ADVG 1560 Ski Tour 1 ADVG 1580 Mountaineering 1 ADVG 2810 Mountaineering 2	
Choose **one** of the following : **(2 credits)** ADVG 1510 Flat Water Canoe Instructor ADVG 2640 Sea Kayaking 1 ADVG 2070 Ocean Surfing ADVG 2660 River Rafting	
Plus a minimum of 14 credits from ADVG electives	
Total credits required to graduate = 60 Credits	

Elective field course choices for the Adventure Guide Diploma		
ADVG 2200	Climbing Gym Instructor Level 1	1
ADVG 2240	Top-Rope Climbing Instructor	2
ADVG 2070	Ocean Surfing 1	2
ADVG 2260	Ocean Surfing 2	2
ADVG 2270	Ocean Surfing 3	3
ADVG 2430	Assistant Hiking Guide	2
ADVG 2440	Hiking Guide	2
ADVG 2450	Alpine Ski Instructor 1	1
ADVG 2490	Kayak 2	2
ADVG 2500	Traditional Climbing	2
ADVG 2510	Moving Water Canoe Instructor	2
ADVG 2530	Kayak 3	2
ADVG 2540	Kayak 4	2
ADVG 2550	Telemark Instructor Level 1	1
ADVG 2570	Ski Tour 2	2
ADVG 2620	Rope Rescue Technician	2
ADVG 2640	Sea Kayaking 1	2
ADVG 2650	Sea Kayaking 2	3
ADVG 2652	Sea Kayaking 3	2
ADVG 2660	River Rafting 1	2
ADVG 2690	Elective Field Course	2
ADVG 2730	SRT 4: Swiftwater Rescue Specialist	2
ADVG 2750	River Rafting 2	2
ADVG 2760	Ice Climbing	2
ADVG 2790	Ski Tour 3	2
ADVG 2800	Rock Climbing 2	3
ADVG 2810	Mountaineering 2	3
ADVG 2840	Coastal Sail Cruising	2
ADVG 2900	Expedition 2	2
ADVG 2930	Rock Climbing 4	2
ADVG 2940	Mountaineering 3	2

Program Graduation Requirements: Successful completion of all required courses—60 credits with a minimum GPA of 2.0.

Program Contact

Email adventure@tru.ca |Phone 250-828-5221

Culinary Arts Certificate: Professional Cook 1 and 2

The Culinary Arts certificate program combines two Industry Training designations: Professional Cook 1, which takes 30-weeks to complete, and Professional Cook 2 which takes 14-weeks (one semester) to complete. Graduates of the program receive a Culinary Arts Certificate and Professional Cook 1 and 2 certification under the Industry Training Authority.

Learning Options

Full-time study: Students attend classes on a full-time basis.
On-campus: Classes are held at the Kamloops campus.
Program start dates: Students may enter the program at the beginning of January or the end of August each year.

Program Overview

The Culinary Arts program provides students with the skills and expertise needed to find jobs in the food industry–from production to service. Students learn the art and delivery of an exceptional culinary experience.

Foundation skills, creativity, teamwork, and professionalism are nurtured and encouraged by the instructors. Students become cooks in working kitchens and learn all aspects of food preparation. Students will succeed in the Culinary Arts program if they are alert, quick-thinking and able to work under pressure. Being a team player is also important to a student's success.

Graduates wanting to take the next step in the profession may pursue Professional Cook 3 training. For those with a flair for the kitchen, sharpen your culinary skills and become a professional cook.

Learning Experiences

Work Practicum and Industry Hours

The work practicum is mandatory and must be completed during the four month break between the Professional Cook 1 and Professional Cook 2 levels. During this time students are required to log 120 hours of work within the industry at an approved place of employment. The work practicum is intended to help students create a smooth transition from a learning environment to employment within the industry.

Instructors and work supervisors will evaluate students during their work experience. Students will receive a "Complete" or "Incomplete" on their grade report for their practical work experiences.

In addition to the work practicum mandated by the Culinary Arts Department at TRU, students must have a total of 400 documented hours of work-based training prior to registering for the Professional Cook 2 level of the program. This is a province wide standard mandated by the Industry Training Authority (ITA). Students may gain these hours by working throughout the school year and/or during the four month break.

The 120 hour work practicum can be placed towards your 400 hours required by ITA.

If students have been or are working at a place of employment that is approved by the Culinary Arts faculty and can provide documentation of their employment the hours gained prior to entering the program may be honoured.

Admission Requirements

Educational Requirements

- BC grade 10 (or equivalent) or mature student status. Grade 12 is preferred.

General Requirements

- Successful completion of Food Safe Certificate
- Successful completion of an entry assessment test through the TRU Assessment Centre. (Call 250-828-5470 or email assess@tru.ca to arrange). This test is a measure of English and math competency, taken by all students, to ensure students have the basis for success in the program
- It is recommended that students have prior industry experience or have interviewed a chef or manager of a restaurant or hotel to have gained some insight into this trade

The typical culinary arts student;

- is innovative, artistic, agile
- has good reading and writing skills (recipe reading/writing)
- has good basic math skills (recipe conversions, food costing)
- has problem solving skills
- thrives in a fast-paced working environment
- is a team player

Application

Apply online at Apply for Admission.

Include the following along with the application and application fee:

- Official transcripts from all secondary and post-secondary institutions attended
- Proof of successful reading and math pre-test results
- Verification of successful completion of a Food Safe Course

Program Costs

In addition to tuition fees, culinary arts students are also required to purchase text, tools and clothing. For more information please see: tru.ca/act/culinary/Culinary_Arts_Program_Information/costs.

Professional Cook 1 - Program Requirements

Monday to Friday 7:30 a.m. - 2:30 p.m.

Students are required to take the following courses:

Block A	**Occupational Skills** Trade Knowledge Safety Standards Sanitary Standards Production Procedures Menu Planning Ordering and Inventory Ingredients and Nutritional Properties
Block B	**Stocks, Soups, and Sauces** Stocks Thickening and Binding Agents, Soups, Sauces
Block C	**Vegetables and Fruits** Vegetables Fruits
Block D	**Starches** Potatoes, Pasta, and Farinaceous Products Rice, Grains, and Legumes
Block E	**Meats** Cut and Process Meats Cook Meats
Block F	**Poultry** Cut and Process Poultry Cook Poultry
Block G	**Seafood** Cut and Process Seafood Cook Fish Cook Shellfish
Block H	**Garde Manger** Dressings, Condiments, and Accompaniments Salads, Sandwiches
Block I	**Eggs, Breakfast Cookery, and Dairy** Egg Dishes Breakfast Accompaniments Dairy Products and Cheeses
Block J	**Baked Goods and Desserts** Principles of Baking Quick Breads Pastries Cookies Desserts Yeast Products
Block K	**Beverages** Beverages
	EXAMS

Professional Cook 2 – Program Requirements

Required courses:

Block A	**Occupational Skills** Trade Knowledge Menu Planning Ordering and Inventory Human Resource and Leadership Skills Cost Management Front of House Ingredients and Nutritional Properties
Block B	**Stocks, Soups, and Sauces** Soups Sauces
Block C	**Vegetables and Fruits** Vegetables Vegetarian Dishes
Block D	**Starches** Potatoes Pasta and Farinaceous Products Rice, Grains, and Legumes
Block E	**Meats** Cut and Process Meats Cook Meats
Block F	**Poultry** Cut and Process Poultry Cook Poultry
Block G	**Seafood** Cut and Process Seafood Cook Fish, Cook Shellfish
Block H	**Garde Manger** Dressings, Condiments, and Accompaniments Salads Hors-d'oeuvre and Appetizers Presentation Platters
Block J	**Baked Goods and Desserts** Pastries Yeast Products Cakes and Tortes
	EXAMS

Culinary Arts Apprenticeship: Professional Cook 3 (Red Seal)

Program Overview

Students graduating with a TRU Culinary Arts Certificate are encouraged to continue their training by pursuing an **Apprenticeship (Professional Cook 3).** Students that complete the apprenticeship earn the status of Red Seal Cook.

TRU offers **Professional Cook 3** training based on sufficient student demand. Inquire at culinary@tru.ca for more information.

Instead of taking the apprenticeship program, cooks may choose to work 9000 hours for 4½ years in the industry and challenge the Certificate of Qualification (Red Seal) examination. Further information on the apprenticeship program and trades certification can be found through the Industry Training Authority of BC see the ITA page at itabc.ca.

Chef De Cuisine

Red Seal cooks are eligible to become members of the Canadian Culinary Federation (CCF) and enrol in the Certified Chef de Cuisine program. To enrol you need to be a Red Seal cook for at least five years, and a CCF member to enter their program.

Evaluation

Formative: Formative evaluation is the feedback and advice instructors provide on a day-to- day basis, during and after class; in group settings and in private consultation. Through this kind of evaluation students receive direct and immediate feedback on their progress. Instructors also keep records of student attendance, attitude and practical progress.

Summative: Summative evaluation determines a student's final standing in the program. Each of the courses has a final mark and letter grade, which is determined by students completing quizzes, assignments, theory and practical exams.

Grading: Students must obtain 70% or a C average on each level and course.

Final mark is determined by the theory portion worth 25% and practical evaluation worth 75%.

Academic Probation

The program places emphasis on training students to industry standards. A large component of the program requires teamwork. A student may be placed on probation by the instructor or Department Chair for one or more of the following circumstances:

- frequent lateness
- cheating on exams
- absences without excuse
- failure to notify the instructor of absences and/or tardiness
- general untidiness and consistent disregard for the program rules and regulations
- failure to curb bad language, hostility and abusive actions
- abuse of alcohol or drugs
- consistent failure to complete practical assignments or weakness in theory

Students are notified verbally of any concerns or problems that require attention. If these issues persist the student and the instructor will collaboratively develop a probation contract. Students are monitored while on probation and failure to show significant improvement during the period of the contract may result in a dismissal.

Program Contact

Email culinary@tru.ca | Phone 250-377-6082

Retail Meat Processing Foundation Certificate

A nine-month program. Graduates receive a Retail Meat Processing Foundation Certificate.

Learning Options

Full-time study: The program is offered on a full-time basis.
On-campus: The program is offered at the Kamloops campus.
Program start date: end of August

Program Overview

The TRU Retail Meat Processing Program has been in operation since 1975 and is the only program offering this training in British Columbia. The current program is nine months of diversified full-time training.

The 13 comprehensive courses that make up the program complement each other and challenge students in hand-eye coordination, safety, industry related math, and species and retail product recognition to Canadian Food Inspection Agency (CFIA) standards. Team work and self-motivation, as well as strict sanitation procedures are important components of all courses. A strong emphasis is placed on student attendance, punctuality, dress code, and professional conduct. Personalized knife skills and machine safety training are also integral to the program.

Students work hands-on (85%) with all four domestic animal species - beef, pork, lamb, and poultry - in both carcass and block ready form. Additionally, students are trained to work with most major game species during the fall semester.

Students are also able to participate in producing our very popular beef jerky and value-added product training. All students help to operate the very busy TRU Meat Store, learning business practices and important industry customer service skills.

TRU's Retail Meat Processing Program provides a broad spectrum of training to ensure that graduates are offered many opportunities to expand their knowledge of this fascinating industry; this includes one four-week work experience anywhere in British Columbia. In addition, students are encouraged to participate in a 3 day field trip to some of the largest and most advanced animal processing and sausage manufacturing plants in British Columbia.

To maintain the relevance of the program to provincial and local industry needs and standards, it is supported by an Advisory Committee with broad representation from the meat cutting industry.

High School students enrolled in this type of hands-on program through the (CTC) Career Technical Centre do very well and are usually working full time by the end of their Grade 12 year.

This program has been developed in consultation with the Ministry of Advanced Education, other Colleges and Institutes in British Columbia and across Canada, members of our Professional Retail Meat Processing Advisory Committee, the Canadian Professional Meat Cutters Association (CPMCA) and Business Operators not only in British Columbia, but also throughout Canada.

Learning Experiences

Productivity

The program places great emphasis on preparing students to meet the high standards and productivity level demanded by the industry. Students in every phase of the program are given varied work assignments and increased cutting responsibilities that match their growth in skill.

Practical Work Experience

During the program, students are required to undertake work experience practicums at the location of their choice to gain industry experience. The instructor helps to arrange the practicum in collaboration with businesses throughout British Columbia. Students not on practicum continue with cutting activities, sausage manufacturing and theory portions of the program in preparation for their own field of work.

Students from outside of the immediate Kamloops area are encouraged to complete the practicum in their home communities.

Admission Requirements

Educational Requirements

Grade 10 (or equivalent), although Grade 12 is strongly recommended.

General Requirements

Canadian citizenship or permanent resident status

- Satisfactory achievement on the English and Math pre-test (Accuplacer Assessment test) tru.ca/assessment/accuplacer
- Interview and orientation with the Program Coordinator
- Food Safe Level 1 Food Safe.ca

Application

Students apply online and are required to attend an orientation session. The orientation session provides valuable information about courses, programs, entrance requirements, and admission procedures. Retail Meat Processing orientations are on-going until the program is filled and must be arranged by appointment with the instructor. Under special circumstances orientation may take place over the phone.

Please call the Retail Meat Processing department at 250-828-5351 for orientation session dates.

Program Requirements

The Retail Meat Processing Foundation Program includes the following courses:

MEAT 1010	Safety and Sanitation
MEAT 1020	Beef and Veal Carcass Processing
MEAT 1030	Meat Science
MEAT 1040	Pork Processing
MEAT 1050	Lamb Processing
MEAT 1060	Poultry Processing
MEAT 1070	Seafood Processing
MEAT 1080	Product Identification and Nomenclature
MEAT 1090	Value Added Processing

MEAT 1100	Fresh, Smoked, and Cured Sausage
MEAT 1110	Meat Nutrition and Cooking
MEAT 1120	Customer Service and Employment Skills
MEAT 1130	Business Related Math

Note: While the basic components of the program are standard, the program is designed to keep pace with industry demands, and is subject to change without notice.

Theory sessions are sometimes supplemented with guest speakers, including:

- Canadian Food Inspection Agency Inspectors
- Animal Health Veterinarians
- Meat Scientists

Note: Students are advised of special guests, lectures and field trips in advance wherever possible. All of these are subject to change depending on availability.

Program Expectations

Once students have been accepted to the program, being punctual and consistent with attendance; cooperation in all team work activities and maintaining a positive attitude will all be expected to help maintain the heavy production schedule.

Students are expected to adhere to the program dress code for the practical sessions and maintain a well-groomed appearance. The program dress code is based on industry practices and requires all apprentices to wear clean shirts and ties, black work slacks and black work shoes (no runners). The code is in effect Monday to Friday. Informal, but clean and tidy, dress is appropriate during theory sessions. Lab work coats are provided and laundered.

Medical Insurance: Students must provide proof of medical insurance protection before attending.

Program Contact

Email cdavison@tru.ca | Phone 250-371-5991
Retail Meat Processing Program Information

Meatcutter Apprenticeship Level 1 and Level 2

TRU offers both Level 1 and Level 2 Meatcutter Apprenticeship training for registered apprentices. For further information on apprenticeship training see the Careers in Trades page at careersintrades.ca or itabc.ca.

Meatcutter Apprenticeship – Level 1

Admission Requirements for Apprenticeship Level 1

1. Must be a registered apprentice.
2. FoodSafe Level 1 Certificate.
3. Must be physically able to lift and manoeuvre product (boxed product, front and hind quarters of beef, etc.).
4. Good manual dexterity.
5. A strong, positive attitude.
6. WHMIS- Workplace Hazardous Material Information System.

All students must have proof of medical insurance protection before attending the program.

Program Overview

Apprenticeship Level 1
The Apprenticeship Level 1 course covers the following modules and topics:

Sanitation, Safety, Refrigeration, Equipment and Hand Tools
Beef and Veal Processing – Variety Meat, Inspection, and Grading
Meat Science Level 1
Pork Processing, Inspection and Grading
Lamb Processing, Inspection and Grading
Poultry Processing, Inspection and Grading
Seafood Processing Level 1
Product Identification and Nomenclature 1
Value Added Processing – Bacon and Ham Curing; Tumbled Products, Jerky, Cordon Blue and Cutlets
Meat Packaging
Meat Cooking 1
Customer Service Practices
Business Related Math

All courses are theory based and consist of instructor demonstrations followed by the opportunity for students to do practical cutting. Expect for the recognition of animal bone structure and primal and secondary cuts, practical subjects are followed by supporting theory sessions that may then be combined with practical demonstrations.

Meatcutter Apprenticeship – Level 2

Admission Requirements for Apprenticeship - Level 2

1. Must be a registered apprentice.
2. Successfully completed Meatcutter Apprenticeship Level 1
3. Current FoodSafe Level 1 Certificate.
4. Must be physically able to lift and manoeuvre product (boxed product, front and hind quarters of beef, etc.).
5. Good manual dexterity.
6. A strong, positive attitude.
7. WHMIS- Workplace Hazardous Material Information System.

All students must have proof of medical insurance protection before attending the program.

Program Overview

Apprenticeship Level 2

The Apprenticeship Level 2 course covers the following modules and topics:

Sanitation, Safety, Refrigeration, Equipment and Hand Tools
Beef and Veal Processing – Variety Meat, Inspection, and Grading Beef Front and Hind, Veal
Meat Science Level 2 – Meat Science 1 and 2
Pork Processing- Pork Inspection and Grading
Lamb Processing- Lamb Inspection and Grading
Poultry Processing - Poultry Inspection and Grading
Seafood Processing Level 2 – Seafood Levels 1 and 2
Product Identification and Nomenclature Level 2 – Product Labeling and Nomclature 1 and 2
Value Added Processing Level 2 • Bacon and Ham Curing • Tumbled Products • Jerky Processing • Fresh Sausage Processing, casings, spices, spice history, non-meat ingredients, pH value, cured products process, sausage history • Cordon Blue and Cutlets
Meat Packaging
Meat Nutrition Level 2 – Level 1 Cooking

Customer Service Practices Level 2 – Customer Service Level 1, Meat Service and Up Selling, Employment Search
Business and Related Math Level 1 – Level 1 review

Level 1 and Level 2 courses are theory based and consist of instructor demonstrations of product followed by the opportunity for students to do practical cutting.

Program Costs

In addition to tuition, apprentices must provide their own knives and steel and clean waterproof gumboots. These additional required items can be purchased at the TRU Bookstore. The Program Advisor will provide students with a detailed list of any other materials, or equipment required upon acceptance to the program.

Program Contact

Email cdavison@tru.ca | Phone 250-371-5991
Meatcutter Program Information

Faculty of Arts

Bachelor of Arts

A four-year undergraduate degree program. Graduates receive a Bachelor of Arts Degree (BA). The BA degree offers a variety of majors and minors while ensuring a comprehensive foundation in the liberal arts.

Learning Options

Full-time or part-time study

On-campus: The BA degree program is offered on the main campus of TRU in Kamloops.

A selection of first- and second-year courses are also offered at the Williams Lake campus, and many courses are available by **distance education** through Open Learning. See the **TRU Open Learning Courses** web page for information at: tru.ca/distance/courses.

Program start dates: Students may enter the program in fall winter, or summer semester.

Program Overview

The Bachelor of Arts program emphasizes a broad liberal arts education by combining a concentration in at least one discipline or thematic area of study with requirements that ensure a broad selection of courses. The major programs of communications, economics, economic and political studies, English, geography and environmental studies, history, mathematics, mathematics and economics, philosophy, psychology, sociology, and theatre arts allow students to focus specifically on courses in one area of study. Unless exempted, students in the BA program, are expected to study a second language and to study courses in the process of scientific and formal reasoning. Students may choose to expand and customize their course selection in a self-directed program and complete the General BA.

The BA program also emphasizes written communication skills. As well, students must complete 6 credits of study in writing intensive courses at both the 1000-2000 level and at the 3000-4000 level. Each program of study includes a number of possible degree options giving students a good deal of freedom to design a BA program to suit their individual needs.

Students usually enter the program at the beginning of the first year, although entry is also possible at the second- or third-year levels. Students are advised to select their major area of study or choose the General BA option, as early as possible. Students may choose from two types of BA programs: the General BA (with a self-directed concentration option) and the Major BA (with or without a minor).

Graduates enter into a wide range of positions spanning private and public sectors, non-profit organizations and self-employment.

If you have any questions or require further information, contact an Arts Advisor at artsadvising@tru.ca.

Admission Requirements

1. BC Grade 12 (or equivalent) or mature student status
2. English 12/English 12 First Peoples with a minimum of 73% (or equivalent)
3. Mathematics 11 or higher is strongly recommended for students pursuing Education or a major in geography and environmental studies, sociology or psychology

NB: Admission to each major program may have specific requirements.

Application process

Students apply online at apply for admission.

Laddering

Transfer credits from other programs, certificates and diplomas completed at TRU or other educational institutions may be applied towards a BA degree. Contact the arts advisors by email at artsadvising@tru.ca. For more information on transfer credit refer to TRU policy ED 8-0.

Program Advising

Students in the first-and second- years of the BA program should choose their 1000-2000 level courses in consultation with Academic Advisors in order to meet the basic requirements and the specific course prerequisites of 3000-4000 level courses. After completing their first 30 credits, but before completing their first 60 credits, students are required to consult with an Arts Advisor and declare a degree option. The Arts Advisor (artsadvising@tru.ca) will assist each student in selecting 3000-4000 level courses to meet graduation requirements and any specific requirements for the various degree options. Students wishing to complete a major program must consult a Major Program Advisor in the discipline selected prior to seeing the Arts Advisor. The Arts Advisor will assist each student in selecting courses that satisfy the major program requirements. The Arts Advisor will then ensure that all additional BA degree requirements are met.

See contact information for specific major advisors following the program's description.

Program Requirements

Applicable to most BA Degree options.
For most, but not all major programs, to graduate with a BA, students must meet all of the following requirements with a minimum cumulative GPA of 2.0 for graduation:

Core Requirements	Credits	Courses
English	6 credits (min)	A minimum of six first-year English credits
Scientific and Formal Reasoning (any combination of 9 academic course credits)	9 credits (min)	**Archaeology** – ARCH 1110, 2010 **Computing Science** - ALL COMP courses **Mathematics** – ALL MATH courses PHIL 2220, 2400 **Physical Geography and Environmental Studies** – GEOG 1000, 2020, 2050, 2700, 2740, 2750

		Science – ASTR, BIOL, CHEM, FRST, GEOL, NRSC, PHYS **Statistics** – ALL STAT courses, or one of: BIOL 3000, ECON 2320, PSYC 2100, and STAT 1200.
Breadth Requirement	12 credits (min)	*A minimum of one 1000-2000 level course in at least four different Arts disciplines; Anthropology, Archaeology, Chinese, Communications, Economics, English, Film, First Nations Languages, First Nations Studies, French, Geography and Environmental Studies, German, History, Japanese, Journalism, Mathematics, Music, Philosophy, Political Studies, Psychology, Sociology, Spanish, Speech, Theatre, Visual Arts
Courses used for the purposes of fulfilling the Breadth requirement may also be used to fulfill the Distribution requirement, Second Language Requirement, or 1000-2000 Level Writing Intensive Requirement. *Courses used to fulfill this requirement must be exclusive of any course used to fulfill the first-year English requirement and Scientific and Formal Reasoning Requirement.		
Distribution Requirement: A minimum of one 1000-2000 level course in at least two of the following categories (excluding courses used to satisfy the first-year English requirement and Scientific and Formal Reasoning requirement listed above.		
Distribution Requirement	6 credits (min)	**Humanities** – Communication, History, Modern Languages, English Literature, Philosophy **Social Sciences** - Anthropology, Archaeology, Economics, Geography and Environmental Studies, Political Studies, Psychology, Sociology **Creative and Performing Arts** - Film, Visual Arts, Theatre, Music, Creative Writing
NOTE: Courses used for the purposes of fulfilling the Distribution requirement may also be used to fulfill the Breadth requirement, Second Language requirement, or 1000-2000 level Writing Intensive requirement. However, courses used for the purposes of fulfilling this requirement must be exclusive of any course used to fulfill the first-year English requirement and the Scientific and Formal Reasoning requirement. Furthermore, students may not use two courses in the same discipline (e.g., an English Literature class and a Creative Writing class) to fulfill the Distribution requirement.		
Second Language Requirement	6 credits (min)	A second language to grade 12 or 6 credits in a post-secondary second language.
Courses used to fulfill the Second Language requirement may also be used to fulfill the Breadth Requirement or Distribution Requirement.		
1000-2000 Level Writing Intensive Requirement	6 credits (min)	ANTH 2150, 2600 CMNS 1290, 1810, 1980, 2160, 2170, 2180, 2200, 2290, 2300 ECON 2430 ENGL* All academic English listed in the TRU calendar are designated as Writing Intensive. FILM 2100, 2200 VISA 1110, 1120, 1500, 2110, 2120, 2130, 2140, 2150 GEOG 2400 HISTORY All 1000 and 2000 level courses JAPA 2600, 2610 PHIL 1010, 1020, 2100, 2140, 2010, 2210, 2240, 2290, 2380, 2390, 2160 POLI 2250 SOCI 2170, 2230, 2270, 2500, 2590, 2720 THTR 1100, 1200, 2110, 2210 VISA 1110, 1120, 1500, 2110, 2120, 2130, 2140, 2150
Courses used for the purposes of fulfilling the Writing Intensive requirement may also be used to fulfill the Breadth requirement or Distribution requirement. However, course fulfilling this requirement must be exclusive of any course used to fulfill the first-year English requirement.		
*Exceptions includes: ENGL 1150		
3000-4000 Level Writing Intensive Requirement	6 credits (min)	ANTH 3000, 3120, 3270, 3280, 4000, 4010, 4030, 4040, 4050, 4150, 4330, 4600 ARCH 4200 CMNS (Communications) all 3000 and 4000 level courses qualify ECON 3100, 3330, 3500, 3550, 3600, 3650, 3670, 3700, 3710, 3740, 4320, 4330 ENGL* All academic English courses listed in the TRU calendar are designated as Writing Intensive. FILM 3850, 4050, 4100, 4140 FRAN 3250, 3260, 4150 GEOG 3200, 3210, 3270, 3280, 3500, 3570, 3610, 3650 4230, 4500, 4810 HISTORY All 3000 and 4000 level courses JOUR Consult with Journalism Chair PHIL 3100, 3140, 3150, 3160, 3170, 3210, 3300, 3390, 3490, 3500, 3600, 3750, 3900, 4100, 4160, 4180, 4190, 4300, 4330, 4350, 4390, 4400, 4510, 4910, 4920 POLI 3010, 3050, 3210, 3460, 4020, 4710 PSYC 3380, 3570, 3610, 4400, 4990 SOCI 3200, 3210, 3220, 3500, 3600, 3610, 3680, 3800, 3820, 4130, 4200, 4600, 4700, 4730 THTR 3110, 3120, 3210, 3220, 3260, 3270, 3600, 3610, 4000, 4010, 4250, 4260, 4300, 4600, 4610 VISA 3130, 3150, 3160
Check with Arts Advisors for any additions to the Writing Intensive course list. *Exceptions include: ENGL 3660, 3270, 3280		
Additional Lower-Level Courses	9 credits	In addition to the above requirements students are required to take additional lower-level requirements. Courses may be part of the major/minor area of study. Courses used to meet the Breadth and Distribution requirements above may be included in this.
Arts Requirement courses	60 credits	Major/Minor/Concentration courses and may include Non-Arts electives (below)
Non-Arts Electives (optional)	12 credits (MAXIMUM)	Consult with Arts Advisors for approval when selecting courses outside of Arts.
Total Requirements	**120 credits**	

Bachelor of Arts (BA), General Program

There are three options under the BA General Program:

1. General BA with a single concentration
2. General BA with a thematic studies option *(under review)*
3. General BA with a double concentration

The table below, Summary of Requirements—General BA Program, summarizes the minimum credits required for the three options under the General Bachelor of Arts program. As some situations involve more than the minimum credits, students should read carefully the program descriptions that follow.

Summary of Requirements: General BA Program			
Program/Concentration Types:	Single Concentration	Double Concentration	Thematic Option
Total Credits	120	120	120
Minimum upper level credits (3000+)	48	48	48
Total within discipline of concentration	30	30+30	45
of which are lower-level (1000/2000 level courses) within discipline of concentration	12	12+12	15
of which are upper-level (3000/4000 level courses) within discipline of concentration	18	18+18	30
Total outside specialty(ies)	84*	60	75
Upper-level (3000/4000 level courses) outside the category of your concentration discipline.	12	12 or 0**	n/a
*If students' area of concentration has the maximum of 36 credits. **If second concentration is in a category outside of first concentration.			

General Bachelor of Arts with a Single Concentration

Students may complete the General BA program by completing concentrations leading to credentials in the following areas of study in Arts:

- Creative and performing arts
- Social sciences
- Humanities
- Humanities and social sciences

For a single area of concentration, students complete a minimum of 30 credits and a maximum of 36 credits in one Arts discipline, including a minimum of 18 and a maximum of 24 credits in 3000-4000 level courses.

Arts disciplines are grouped into the following categories and areas of concentration:

Humanities	English, Communications, History, Modern Languages, Philosophy, Speech
Social Sciences	Anthropology, Archaeology, Communication, Economics, Geography and Environmental Studies, Journalism, Political Studies, Psychology, Sociology
Creative and Performing Arts	Film, Theatre, Visual Arts, Music, Creative Writing

To complete a single area of concentration, students complete a minimum of 30 credits in 3000-4000 level courses in a category (or categories) other than the student's area of concentration. While a student's area of concentration must be in an Arts discipline, up to 12 credits of the 3000-4000 level courses outside of the category of concentration may be in categories outside of Arts.

Categories outside of Arts include:

Science: (some exceptions apply)	Biology, Chemistry, Computing Science, Geology, Mathematics, Natural Resource Sciences, Physics, Statistics
Other categories:	Adventure Studies, Physical Education, Social Work, Tourism
Business and Mathematics:	Accounting, Business Law, Entrepreneurship, Finance, Human Resource Management, Marketing Management

General Bachelor of Arts with a Double Concentration

Students in the General BA may take two concentrations. In such a case, students must take a minimum of 30 and a maximum of 36 credits in each of their two disciplines of concentration, including a minimum of 18 and a maximum of 24 credits in 3000-4000 level courses in each of the two disciplines. A student must still take a minimum of 12 credits in 3000-4000 level courses in a category (or in categories) other than the student's area of concentration. If the second concentration is in a category outside of the first concentration, however, this requirement will be met automatically.

Note: Students opting to complete the General BA may also choose to complete one or more minor credentials. More information on Arts Minors follows the section on majors in this calendar.

Students are advised to consult an Arts Advisor by email at ArtsAdvising@tru.ca if they intend to complete a minor.

For general information regarding minors, please refer to TRU Policy ED 16-0, Types of Undergraduate and Graduate Credentials.

Service Learning

Students may take 6 credits of service learning normally during their third- or fourth-year. Of these 6 credits, three may be applied directly to the major. A service learning course is a faculty-supervised community-based learning project completed individually or in groups of up to five students.

Co-operative Education

A Co-operative Education work term is considered a three credit elective. Each program has different requirements for the elective. Contact an Arts Advisor for more information. Co-operative Education allows students to integrate academic studies with paid periods of relevant experience. Students alternate between periods of on-campus, full-time study, and work terms, which are full-time, paid employment. Students are expected to complete multiple work terms in more than one season of the year.

Students in the BA Co-op option who complete a work term are granted 3 credits for a non-arts elective. These 3 credits may be counted toward graduation requirements. For each additional work term, students are granted 3 credits; however, these credits may not be counted toward graduation requirements and are considered additional credits. (See your advisor for more information.)

Students must have a minimum GPA of 2.67 to apply to the BA Co-op option and must maintain a GPA of 2.67 to remain in the program. Generally, students must have completed 48 credits before beginning their first work term.

Completion of Co-op 1000 is mandatory prior to a student's first work term. Refer to the Career and Experiential Learning section of the calendar for detailed information on Co-op policies and procedures and tuition fees.

Sample Bachelor of Arts Co-op Time Pattern

	Sept-Dec	Jan-Apr	May-Aug
Year 1	Academic Semester 1	Academic Semester 2	
Year 2	Academic Semester 3	Academic Semester 4	Co-op Work Term
Year 3	Co-op Work Term	Academic Semester 5 or Co-op Work Term	Co-op Work Term
Year 4	Academic Semester 6	Academic Semester 7	
Year 5	Academic Semester 8	Graduation	

International Opportunities

Study Abroad: TRU offers a range of international exchange opportunities, and is a member of a large, international Study Abroad program that gives students access to universities around the world. BA students may want to spend one or more semesters of study at another university.

International Field Schools

TRU offers a number of general and program specific field schools every year. These schools run from two to six weeks in length and offer course credit that can be applied to your degree.

Bachelor of Arts Major Programs

The table below, "Summary of Requirements - Major BA Program," summarizes the minimum credits required for the three options under the Bachelor of Arts Major program. As most major programs require more than the minimum credits, students should read carefully the individual program descriptions which follow.

Summary of Typical Requirements - Major BA Program	Single Major	Major + Minor	Double Major
Total Credits	120	120	120
Of which courses 3000+	48	48	66
Total within specialty(ies)	42	42 + 30	42 + 42
Of which courses 3000+	30 to 33	30 to 33 + 18	30 to 33 + 30 to 33
Courses 3000+ outside Major disciplines	6	6	6

Major programs require a minimum of 42 to 45 and a maximum of 60 credits in one discipline, including a minimum of 30 and a maximum of 42 credits at the 3000-4000 level.

Students may complete any TRU minor, or multiple minors, regardless of the degree they are pursuing provided they are approved by the Dean (or designate) of their academic unit. For more information on Types of Undergraduate and Graduate credentials, see TRU Policy ED 16-0. Students are strongly advised to see guidelines regarding all TRU programs and their specific requirements from the designated Program Advisor.

Students may take as many additional courses as they choose within the major or minor discipline above the number necessary to complete the program(s), to be counted towards meeting the 120 credits required for a BA, so long as all other program requirements are met.

Currently, Major Programs offered in the Faculty of Arts at TRU include:

- Communication
- Economics
- Economic and Political Studies
- English
- Geography and Environmental Studies
- History
- Mathematics
- Mathematics and Economics
- Philosophy
- Psychology
- Sociology
- Theatre Arts

Each discipline has its own specific requirements for its major program. Students should read carefully the individual program descriptions which follow or contact the Major Advisor of specific programs.

Major in Criminology: Open Learning

The Bachelor of Arts, Criminology Major is primarily an Open Learning, on-line program. However, students may take a substantial portion of their Arts Degree requirements on campus. Most Criminology courses are only available online or through transfer studies.

For information please go to tru.ca/bachelor-of-arts-criminology.

Major in Economics

Economics provides a framework for analyzing and helping to solve society's problems. Economists examine how and why people—consumers, investors, workers, managers, public servants, volunteers, make choices about the use of resources. They also study the ways in which those decisions affect regional, national and world economics.

Economists examine the effects of public policy and use their training to develop government policies that are more efficient, equitable, and responsive to the public will. They apply their skills in areas as diverse as banking, law, education, finance, the environment, manufacturing, trade, welfare, agriculture, health, insurance, criminal justice, labor, energy, and transportation.

Studying Economics

The economics major, minor, and concentration programs within the Bachelor of Arts are designed to provide a high quality undergraduate economics education within a liberal arts tradition.

Students are introduced to the core body of knowledge within the economics discipline, thereby developing within students a particular set of abilities or skills including; creativity, evaluative and critical thinking, analytics, cooperation skills, effective oral and written communication skills, information technology skills, research and decision making skills.

Students also learn how to meet goals, manage time and complete a project successfully. Emphasis will be placed on the application of the basic tools to policy areas.

Admission Requirements for Major in Economics

Students are expected to enter the major program in the third year of their studies, although fourth-year applicants will also be considered. Students can declare their major as early as the second year of their studies. Regardless of the chosen time of entrance into the program, all candidates must meet with the Program Advisor for the economics major to check their qualifications and design the best suited path for completing the economics and BA degree requirements. Given the complexity of the various requirements, it is highly advisable that students consult their major advisor as soon as they decide to enter into the program.

The minimum admission requirements into the economics major are admission to the BA program, and completion of ECON 1900, ECON 1950 and one of the following courses: MATH 1170 or MATH 1140, or equivalent.

Program Requirements

The Economics Major requires the completion of at least 51 credits consisting of at least:

45 credits in economics 3 credits in mathematics 3 credits from disciplines within the Faculty of Arts From the 45 credits in economics, a minimum of 30 credits must be at the upper-level (3000 and 4000 level) of which no less than 6 credits must be at the 4000 level.

The program consists of required and elective courses. There are also a number of suggested courses.

Major	Credits	Courses
Economics	45 credits**	Required: ECON 1900, 1950, 2900, 2950, 2320, 3330 and ECON 3900 or 3950 Suggested: ECON 3100*, 3200, 3410, 3500, 3550, 3600, 3610, 3650, 3670, 3690, 3700*, 3710*, 3730*, 3740*, 3840, 3900, 3950, 3990, 4100, 4320, 4330, 4560, 4660, 4720, 4990
Mathematics	3 credits required	MATH 1170 or 1140 or equivalent
Supplementary Arts	3 credits required	Recommended courses: ANTH 1210, CMNS 2290, GEOG 1110, 2110 HIST 1220, PHIL 1110, 2010, 2210 POLI 1110, 1210 / Any second year POLI PSYC 1110, SOCI 1110, SPEE 1500, 2500
**From the 45 credits in Economics, a minimum of 30 credits must be at the upper-level (3000 and 4000 level) of which no less than 6 credits must be at the 4000 level. *Offered every year. The other courses are rotated. Speak to the Department Chair for information on which other courses are offered in any given year.		

Program Contact

Arts Advisor: Email artsadvising@tru.ca | Phone 250-371-5566

Economics Advisor Email: elatif@tru.ca |Phone 250-377-6026

Major in Economic and Political Studies

Economics and politics is "the study of choices" and so is concerned with all areas of our lives. It provides rigorous analysis of many real-world subjects: governments, taxes, unemployment, financial markets, international trade, development and economic growth, but also poverty, crime, pollution, health care, education, the environment and many others areas.

The best reason to study economics and politics is to better understand the world and help you make better choices. It can help you become a better citizen and a more rigorous thinker... not to mention its contributions to advancing your career goals.

Program Requirements

The Major in Economic and Political Studies requires the completion of at least 57 credits in economics and political science, of which a minimum of 30 credits must be at the upper-level (3000 and 4000 level) of which no less than 6 credits must be at the 4000 level. The program consists of core and elective courses.

The major in Economic and Political Studies requires the completion of:

Major	Credits	Courses
Lower-level requirements	27 credits**	ECON 1900, 1950, 2320, 2430, and 2950** POLI 1110 and POLI 1210 Any two 2000 level POLI courses (6 credits)
**Students may substitute any other ECON course at the 2000-level or above for either ECON 2430 or ECON 2950, but not both.		
Upper-level Economics	15 credits	ECON 3100*, 3330, 3410, 3500, 3550, 3600, 3610, 3650, 3670, 3690, 3700*, 3710*, 3730*, 3740, 3840, 3990, 4560, 4720, 4990
*Offered every year. The other courses are rotated. Speak to the Department Chair for information on which other courses are offered in any given year. ECON 3990 and 4990 can only be used if the special topics covered are related to the major. The chairs/program advisors will make such decisions.		
Upper-level Political Studies	15 credits	Any 3000 or 4000 level POLI courses (15 credits)

Admission Requirements

Students usually declare a major before the beginning of their third year of courses, but they must meet specific lower-level requirements to be admitted to their major of choice. All candidates are assigned a major Program Advisor. Students are expected to meet with their advisor to ensure that they qualify and that appropriate courses are selected.

Opportunities for Further Study

A bachelor's degree in economics and political studies is an excellent preparation for graduate studies — whether in economics or politics, or in another field such as law, business, public administration, environmental studies, health-care administration, labour relations, urban planning, diplomacy, or one of many others. A degree in economics and politics is also excellent preparation for an MBA program.

Program Contact

Arts Advisor: Email artsadvising@tru.ca | Phone 250-371-5566
Economics and Political Studies Advisors
Email tkading@tru.ca | Phone 250-371-5523
Email ptigaris@tru.ca | Phone 250-371-5732

Major in English

English is the study of literature as a reflection of human thought, feelings, experiences, motivations, and conflicts, filtered through the varied socio-cultural perspectives of writers. When we read, we become familiar with historical and contemporary contexts, literary conventions, and intercultural issues and values.

In English classes, students engage with thought-provoking and challenging literary texts to develop their critical reading, thinking, and writing skills, all of which are essential for numerous professions in the Information Age. Students of English literature have the opportunity to explore careers in many fields, including publishing, marketing, or creative writing; they can also pursue graduate studies in English or further study in related disciplines such as Law, Education, Human Resources, Library and Information Sciences, Public Relations, or Counselling. An English major allows students to choose from a wide range of courses that explore influential authors from Shakespeare to Margaret Atwood; regional, postcolonial, environmental, Indigenous, and children's literatures; theatre, film, gender and sexualities, literary bestsellers, graphic novels, war and protest literature; and all genres of creative writing, including fiction, poetry, and screenwriting.

Admission Requirements

Students usually declare their major before the end of their third year of courses. They must meet specific lower-level requirements to be admitted. All candidates are assigned a Major Program Advisor. Students are expected to meet with their advisor to ensure that they qualify and to choose from the upper-level English courses offered in rotation each year.

Prerequisites

Admission to the Bachelor of Arts:

1. BC Grade 12, or mature student status, or equivalent
2. English 12/English 12 First Peoples with a minimum of 73% (or equivalent).

Program Requirements: To graduate with a major in English, a student must complete a total of 120 credits, with a GPA of 2.00 or higher in all courses, including 48 credits in English as described below.

Lower-level requirements

1. 6 credits from ENGL 1100, 1110, 1120, 1140, or 1210.
2. 12 credits of second-year (2000 level) English courses, as follows:
   - ENGL 2110 (required);
   - 3 credits from ENGL 2010, 2020, 2060, 2070 or 2080;
   - 6 credits of second-year English electives from:

     ENGL 2000, 2040, 2120, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2240, 2250, 2260, 2270, 2400, 2410, or 2420.

Note: at the 2000 level, English majors are strongly advised to complete ENGL 2120.

Upper-level English Major Requirements

Students majoring in English will complete a minimum of 30 credits of English courses at the 3000 and 4000 levels.

Note Exceptions:

1. A maximum of 3 credits of Creative Writing is allowed.

2. A maximum of 6 credits of Service Learning may be applied to the major in English.

3. A maximum of 3 credits can be applied from: PHIL 3750 and JOUR 4310.

Note: Students who are considering going on to graduate school are advised to consult with an English Advisor for guidance on the best selection of courses for acceptance into university graduate programs.

Upper-level English courses may include, but are not limited to the following:

3000 and 4000 English Courses (a minimum of 30 credits)	
CMNS 3070	Studies in Rhetoric
CMNS 3080	Advanced Composition 1 – Personal Expression
ENGL 3080	Advanced Composition 1 – Personal Expression
ENGL 3120	Indigenous Dramas
ENGL 3130	European Literature in Translation
ENGL 3140	Studies in Fiction
ENGL 3150	Studies in Non-Fiction
ENGL 3160	Studies in Literature and the Other Arts
ENGL 3170	Science Fiction
ENGL 3180	Children's Literature
ENGL 3190	Studies in the Intellectual Backgrounds of Literature
ENGL 3240	Fairy Tale Variants and Transformations
ENGL 3250	Women's Memoirs
ENGL 3300	Reading Literature and Literary Theory: Advanced Skills
ENGL 3320	Modern Critical Theories
ENGL 3330	Special Topics in Creative Writing
ENGL 3340	Writing Speculative Fiction
ENGL 3350	Studies in Major Authors
ENGL 3360	Advanced Short Fiction Writing
ENGL 3370	Novel Writing
ENGL 3380	Advanced Poetry Writing
ENGL 3390	Advanced Drama Writing
ENGL 3410	Screenwriting
ENGL 3550	Chaucer
ENGL 3650	Shakespeare
ENGL 3660	Studies in Shakespeare
ENGL 3710	Poetry of the Early Seventeenth Century
ENGL 3730	Topics in Seventeenth-Century Literature
ENGL 3740	Milton's Paradise Lost
ENGL 3750	Milton
ENGL 3810	Poetry of the Age of Dryden and Pope
ENGL 3820	Poetry of the Middle and Late Eighteenth Century
ENGL 3840	The English Novel in the Eighteenth Century
ENGL 3850	Restoration and Early-Eighteenth-Century Literature
ENGL 3860	Mid- and Late-Eighteenth-Century Literature
ENGL 3890	Studies in Eighteenth-Century Thought and Literature
ENGL 3910	Romantic Poetry
ENGL 3940	The Victorian Novel
ENGL 4000	Early Modern British Literature
ENGL 4040	The Modern British Novel
ENGL 4130	Contemporary British Drama
ENGL 4140	The Contemporary British Novel
ENGL 4150	Studies in Women's Literature
ENGL 4160	Topics in Modern Irish Literature
ENGL 4200	Classics of Canadian Fiction
ENGL 4210	Studies in British Columbia Literature
ENGL 4220	Modern Canadian Drama on the Page, Stage, and Screen

ENGL 4240	Nineteenth-Century Canadian Literature
ENGL 4250	Contemporary Canadian Poetry
ENGL 4260	Studies in Canadian Literature
ENGL 4340	American Fiction to 1900
ENGL 4350	American Fiction in the First Half of the Twentieth Century
ENGL 4360	Studies in American Literature
ENGL 4370	American Fiction from Mid-Twentieth Century to the Present
ENGL 4430	Studies in Literature and the Environment
ENGL 4440	Postcolonial Women's Literature
ENGL 4450	Commonwealth/Postcolonial Literature
ENGL 4460	Studies in Commonwealth/Postcolonial Literature
ENGL 4470	Studies in Indigenous Literature
ENGL 4510	Studies in Literary Moments
ENGL 4600	American Poetry to the First Half of the Twentieth Century
ENGL 4610	American Poetry from the Mid-Twentieth Century to the Present
ENGL 4760	Editing and Publishing
ENGL 4780	Studies in Literature and Film
ENGL 4790	Studies in Genre

Opportunities for Further Study

The English program at TRU prepares students well for graduate studies in Canadian post-secondary institutions or study abroad.

Academic Advising

Students are encouraged to see an advisor in their second year of study or earlier. Details about making an appointment with an English Advisor will be posted on the English Department website and the English Department bulletin board outside the arts office in the Arts and Education building. Whenever possible, a faculty advisor will act as a "mentor" from the time students enter the program until they graduate. The BA Advisor should also be consulted.

Program Contact

Arts Advisor: artsadvising@tru.ca | Phone 250-371-5566
English Advisor: Phone 250-377-6016

Department of English and Modern Languages Chair:
Email uscheck@tru.ca | Phone 250-828-5168

Major in Geography and Environmental Studies

The Geography and Environmental Studies Major Program at TRU has strong teaching and research expertise in sustainable urban and rural landscapes, Japan and the Americas, environmental geography, economic geography, hydrology, climatology / meteorology, geomorphology, and emerging geomatic technologies and methods, including Geographical Information Systems (GIS).

For those interested in pursuing a career or further study in education, urban and community planning, environmental consulting, policy development, environmental law, water resources research, mine reclamation, environmental assessment, and earth science including hydrology, meteorology and geomorphology.

Students have the opportunity to:

- participate in the Geography Co-op program
- participate in a variety of field courses
- pursue the Master of Environmental Science (MSC) program
- work with knowledgeable, experienced and friendly faculty
- participate in research at the undergraduate level
- be hired and respected regionally, provincially, across Canada, and internationally

Admission Requirements

Students usually declare their major before the start of their third year of the BA program. All candidates must meet with the Major Program Advisor in geography and environmental studies to plan their course selection and to ensure that all BA degree requirements will be met.

Before students can declare their major they must have met the admission requirements for the BA. As well, they must have successfully completed no fewer than 21 credits in lower-level geography courses, either at TRU or at other accredited institutions. Admission into the geography and environmental Studies major honours program option requires completion of the lower-level requirements of the major with a minimum grade point average (GPA) of 3.00

Program Requirements

Students normally declare their Geography and Environmental Studies Major before entering the third year of the BA program. All candidates must meet with the Major in Geography and Environmental Studies Program Advisor to plan their course selection and to ensure that all BA degree requirements will be met.

There are three program options associated with the BA geography and environmental studies:

1. Geography and Environmental Studies Major
2. Geography and Environmental Studies – Physical Geography Major
3. Geography and Environmental Studies Honours Major

Lower-Level – Common to all three major program options	
GEOG 1010 or GEOG 1110	Introducing Human Geography: People, Places, and Landscapes or World Regional Geography
GEOG 2400	Geographic Thought
GEOG 1000	Planet Earth: An Introduction to Earth System Science
GEOG 2020 or GEOG 2050	Weather, Climate and Global Environmental Change or Introduction to Hydrology
GEOG 2700	Introduction to Geographic Analysis
GEOG 2750	Introduction to Geographic Information Systems
GEOG 1100 or GEOG 2110 or GEOG 2120 or GEOG 2220 or GEOG 2230 or GEOG 1010 GEOG 1110 GEOG 2020 GEOG 2050	Introduction to Environmental Studies and Sustainability Geography of the Economic Landscape Geography of Urban and Regional Planning Regional Geography of Canada The Regional Geography of British Columbia and Yukon any of the following not used to meet the requirement above Introducing Human Geography: People, Places and Landscapes World Regional Geography Weather, Climate and Global Environmental Change Introduction to Hydrology
Upper-Level	
Geography and Environmental Studies Major Program option	
Thirty (30) 3000 or 4000 level GEOG credits are required with at least three (3) credits from the 4000 level. Of the thirty (30) credits at least three (3) distinct credits must be chosen from each of the four (4) course groups (A,B,C,and D) listed in the course table below. The remaining eighteen (18) upper-level elective GEOG credits may be selected from any of the four (4) course groups (A, B, C and D) or a combination thereof, or from GEOG 3990 (Special Topics in Geography and Environmental Studies) , GEOG 4990 (Special Topics), or GEOG 4480 (Directed Studies in Geography and Environmental Studies).	

Geography and Environmental Studies – Physical Geography Major Program option	
Thirty (30) 3000 or 4000 level GEOG credits are required with at least three (3) credits from the 4000 level. Of the thirty (30) credits at least fifteen (15) credits must be chosen from course group C: Physical Geography (defined below) and three (3) distinct credits from each of the other three (3) course groups (A, B, and D) listed in the table below. The remaining six (6) upper-level GEOG credits may be selected from any of the four (4) course groups (A, B, C, and D) or a combination thereof, or from GEOG 3990, GEOG 4990, or GEOG 4480.	
Geography and Environmental Studies Honours Major Program Option	
Forty-two (42) 3000 or 4000 level GEOG courses from which at least three (3) distinct credits must be chosen from each of the four (4) course groups (A, B, C, and D) listed in the course table below. At least nine (9) of the forty-two (42) credits must be chosen from any of the 4000 level GEOG courses listed in the course table (any course group) or GEOG 4990 or GEOG 4480. The remaining twenty-one (21) upper-level GEOG courses may be selected from any of the four (4) course groups (A, B, C, or D) or combination thereof, or from GEOG 3990. Students must obtain a grade point average of 3.00 in the forty-two (42) upper-level credits and must not obtain a grade below B- (2.67) in any three (3) of the forty-two (42) credits. Students are permitted to re-take a course once in order to meet the grade requirement. Admission into the Honours program requires completions of the lower-level requirements with a minimum grade point average (GPA) of 3.00.	
Upper-Level Courses	
Group A – Environmental Studies	
ENVS 3991	Environmental Studies: Sustainability
GEOG 3100	Environment, Resources and Sustainability
GEOG 3650	Geography of Consumption
GEOG 3991	Global Climate Change and Regional Impacts
GEOG 4230	Attitudes Towards the Environment
GEOG 4100	Sustainable Rural Systems
GEOG 4800	Environmental Issues and Policies
Group B – Human Geography	
GEOG 3200	Introduction to Cultural Geography
GEOG 3210	Historical Geography of Urbanization
GEOG 3230	Geographies of Gender
GEOG 3270	Historical Geography of Canada I: Canada before 1850
GEOG 3280	Historical Geography of Canada II: Canada after 1850
GEOG 3500	Introduction to Urban Geography
GEOG 3510	Rural Geography
GEOG 3550	Geography of the Urban-Rural Fringe
GEOG 3570	Introduction to Social and Behavioural Geography
GEOG 3610	Themes in Economic Geography
GEOG 3900	Geography of a Selected Region
GEOG 4240	Geography of Tourism
GEOG 4500	Urban Analysis
GEOG 4810	Geography of Small Cities
GEOG 4840	Postcolonial Geographies
GEOG 4850	Geography of First Nations Issues in British Columbia
Group C – Physical Geography	
GEOG 3040	Environmental Climatology and Meteorology
GEOG 3050	Physical Hydrology
GEOG 3060	Groundwater Hydrology
GEOG 3070	Biogeography
GEOG 3080	Geomorphology
GEOG 4050	Fluvial Geomorphology
GEOG 4060	Advances in Hydrology
GEOG 4820	Urban Biophysical Environments
Group D – Geographical Methods	
GEOG 3700	Field Methods in Geography
GEOG 3740	Remote Sensing of the Environment
GEOG 3750	Applications of Geographical Information Systems
GEOG 3770	GIS for Water Resources Systems Analysis
GEOG 4740	Spatiotemporal Analysis
GEOG 4750	Advances in Geomatics

Opportunities for Further Study

Graduate work in geography and environmental studies, urban and regional planning, law, and many more professional programs. Students may pursue a master's degree (MSc) in Environmental Sciences with faculty members in the Department of Geography and Environmental Studies.

Program Contact

Arts Advisor, Email arts advising@tru.ca | Phone 250-371-5566
Chair of Geography and Environmental Studies
Email twaldichuk@tru.ca | Phone 250-371-5718
Further information can be found at tru.ca/arts/geography.

Major in History

History is the study of humanity's recorded past. History is a dynamic field that is enriched by ongoing debates about all aspects of the past. History is the most universal of the humanities, encompassing the study of everything from arts and sciences, technology and economics, ideology and social attitudes—as well as politics and war.

History offers students the opportunity to develop skills that are invaluable in all fields of endeavor. In history, students develop and strengthen their capacity for critical thinking. They learn how to define complex problems, conduct research, classify extensive data, and construct effective arguments. They sharpen their oral and written communication skills, and analyze issues that are relevant to contemporary concerns. Students of history not only gain intellectual fulfillment, but a range of concrete skills that are eagerly sought by employers.

Admission Requirements

Students usually declare their major before the end of their second year of courses (between 24 and 53 credits). Once you have declared your major, all candidates must meet with a major advisor who will assist with course selection and ensure that requirements are met.

Before students declare their major they must have met the admission requirements for the BA. As well, they must have successfully completed no fewer than 9 credits in lower-level history courses, either at TRU or at other accredited institutions.

Major in History Program Requirements

Of the 42 credits required for the history major, 9 credits (3 history courses) must be completed at the lower-level; 30 credits (10 history courses) must be upper-level; and, 3 credits (one history course) may be either lower- or upper-level.

Third- and fourth-year Course/Credit Requirements:

1. Students must take 30 credits in history courses numbered between 3000 and 4990, including HIST 3000 and cross-listed courses from other disciplines.
2. Entrance to any 4000-level course requires no fewer than 3 credits in 3000- level history courses
3. All history major students must take HIST 3000: The Historian's Craft in the third-year of the program.

4. Of the 30 credits required of the major in history, at least 9 but no more than 15 upper-level credits must come from one of the geographic fields (i.e.: British, and/or European, American, and Canadian).
5. Of the 30 credits required of the major in history, at least 3 upper-level credits must come from courses in each geographic field (i.e.: British and/or European, American, and Canadian).
6. Of the 30 credits required of the major in history, at least 9 must be taken at the 4000-level.
7. Of the 42 lower and upper-level credits in history required of the major in history, no fewer than 6 credits must be from Canadian History.
8. Credit toward the history major is also given for successful completion of PHIL 4190.

Opportunities for Further Study

The History Major program at TRU prepares students well for graduate studies at post-secondary institutions around the world. It also prepares students for admission into law schools across Canada and internationally. Read more.

Program Contact

Arts Advisor: Email ArtsAdvising@tru.ca | 250-371-5566
History Major Advisor: mgorman@tru.ca | 250-828-5399

History Coordinator: rtapley@tru.ca | 250-828-55495

Chair of Philosophy, History and Politics: jmclaughlin@tru.ca | 250-371-5734

Major in Mathematics (Arts)

The Department of Mathematics and Statistics offers three majors: BA in Mathematics, BSc in Mathematics and BSc in Mathematical Sciences, as well as combined degrees with a variety of other disciplines. The BA in Mathematics is a four-year degree program which provides students with a rigorous specialization in mathematics supplemented with a broad background in arts. The department offers its majors department seminars and independent study opportunities. Many students are hired as tutors in the Math Help Centre and for summer research projects.

Admission Requirements

1. Admission to the Bachelor of Arts Degree program
2. Pre-calculus 12 C+ or equivalent, within the last two years

In exceptional cases, for example, where a student has transferred from another educational system or has been out of school for several years, entry into MATH 1140 may be permitted based on a placement test administered (for these exceptional cases only) by the Department of Mathematics and Statistics during the first week of classes.

Program Requirements

First Year	Credits
MATH 1130/1230 or 1140/1240	6
MATH 1700*	3
ENGL 1100 and 1110 or 1110 and 1210	6
Language, if necessary	6
COMP 1130	3
Electives [3]	6
* MATH 1380/1390 or COMP 1380/1390 may be substituted for MATH 1700	
Second Year	Credits
MATH 2700	3
MATH 2110	3
MATH 2120	3
MATH 2200*	0 – 3
ENGL (2000 level) STAT 2000	3 3
Electives [3]	12 – 15
* Math 2200 can be delayed to the third year.	
Third and Fourth Year	Credits
MATH (3000 or 4000 level)[4]	21
MATH, STAT or COMP (3000 or 4000 level)[5]	9
Electives	30
Students must also meet the general requirements of the BA degree.	

Recommendations:

1. Students interested in teaching are advised to take MATH 3080 and 3120.
2. Students interested in economics should consult an advisor in the Economics Department for appropriate combination of math and economics courses. Students may also wish to consider the BA Joint major in Mathematics and Economics.
3. Students interested in pursuing Computing Science 3000 or 4000 level courses must complete COMP 1130, 1230, 2130, and 2230.
4. At least one of MATH 3070 or MATH 3220, and at least one of MATH 3000 or MATH 3200, must be included.
5. No more than 6 of these 9 credits may be in computing science.

Honours in Mathematics

BA Honours in Mathematics students are required to complete 126 credits for the degree, maintain an overall GPA of 3.0, as well as a GPA of 3.0 in each of their third- and fourth-years, with no individual course below a B- grade. Their mathematics courses must include all four of: Math 3000, Math 3070, Math 3200 and Math 3220. They also complete Math 4950 (honours thesis).

Program Contact

Arts Advisor: Email ArtsAdvising@tru.ca | Phone 250-371-5566
Math Program Coordinator: Email rtaylor@tru.ca | Phone 250-371-5987

Major in Mathematics and Economics (Arts)

This program is designed for students who are interested in the interactions between mathematics and economics. The major provides a high quality education and develops within students a wide variety of skills and abilities. These include critical thinking on economic issues using quantitative techniques, analysis of domestic and international socioeconomic problems, developing applied research skills, and decision-making skills. Like the mathematics major, the combined mathematics and economics major has both BA and BSc options tailored to students' other interests.

Program Requirements

First and Second Year course requirements	
MATH 1140 MATH 1240 MATH 1700	Calculus 1 Calculus 2 Discrete Mathematics 1
ECON 1900	Principles of Microeconomics
ECON 1950	Principles of Macroeconomics
MATH 2110	Calculus 3
MATH 2120	Linear Algebra 1
MATH 2240	Differential Equations
MATH 2700	Discrete Mathematics 2
ECON 2320 or STAT 2000	Economic and Business Statistics or Introduction to Statistics
ECON 2900	Intermediate Microeconomics 1
ECON 2950	Intermediate Macroeconomics 1
Third and Fourth Year ECON course requirements	
ECON 3200	Introduction to Mathematical Economics
ECON 3900	Intermediate Microeconomics 2
ECON 3950	Intermediate Macroeconomics 2
ECON 4320	Econometrics
ECON 4330	Forecasting in Business and Economics

Depending on student's interests and qualifications, one the following streams must be chosen:

Third and Fourth Year courses for the Mathematics Stream (15 credits)	
STAT 3060	Applied Regression Analysis
MATH 3160	Differential Equations
MATH 3400	Introduction to Linear Programming
MATH 4410	Modelling of Discrete Optimization Problems
MATH ELECTIVE	(an additional 3000 or 4000-level MATH course

Third and Fourth Year courses for the Statistics Stream (15 credits)	
MATH 3020	Introduction to Probability
STAT 3060	Applied Regression Analysis
Choose three of the following courses:	
MATH 3030	Introduction to Stochastic Processes
Any two upper level STAT electives	
Note: Students who choose not to take MATH 3030 must take 9 credits of upper-level STAT electives (3 courses).	

Third and Fourth Year courses for the General Stream (15 credits)	
STAT 3060	Applied Regression Analysis
Choose four of the following courses:	
MATH 3020	Introduction to Probability
MATH 3030	Introduction to Stochastic Processes
STAT 3050	Introduction to Statistical Inference
MATH 3160	Differential Equations
MATH 3400	Introduction to Linear Programming
STAT 4040	Analysis of Variance
MATH 4410	Modelling of Discrete Optimization Problems
Any upper-level MATH/STAT Elective	

The Major in Economics and Mathematics requires the completion of at least 66 credits in economics and mathematics/statistics, of which a minimum of 30 credits must be at the upper-level (3000 and 4000) of which no less that 6 credits must be at the 4000 level.

Program Contacts:

Arts Advisor: Email artsadvising@tru.ca | Phone 250-371-5566

Chair of Economics: Email elatif@tru.ca | Phone 250-371-6026

Math Program Coordinator: Email rtaylor@tru.ca | Phone 250-371-5987

Related Programs:

- Bachelor of Science in Mathematics
- Bachelor of Science in Mathematical Sciences
- Bachelor of Science in Computing Science and Mathematics
- Bachelor of Science in Mathematics and Economics

Major in Philosophy

Philosophy is the study of knowledge, reason, existence and value. Philosophers carefully consider the nature of the universe, humanity's place in it, the proper conduct of individual and social life, and what we can know. Studying philosophy involves learning about its methods and history as well as its sub-disciplines.

TRU's Philosophy Department offers a program of study that is well balanced between the traditional major covering all of the mainstays of classical to modern thought and the cutting edge philosophy that is emerging from new and evolving ideas. At the same time that our major in philosophy satisfies those students looking to study further in the discipline, it also interests those students with special interests looking for innovative courses. Students can study Plato, Nietzsche, Locke, Descartes, and Quine, as well as topics such as ethics and the holocaust, the philosophy of humour, the philosophy of science, the philosophy of rock music, and so on.

Admission Requirements

Students must have met the admission requirements for the Bachelor of Arts before they can declare a major in philosophy. Students are advised to declare their major as early as possible to ensure that they take all the required lower-level courses for the philosophy program.

All students interested in declaring a philosophy major should meet with the Philosophy Major Advisor or the Philosophy Coordinator to ensure that they meet the lower-level (first- and second-year) requirements and to select the appropriate courses.

Required courses for graduation with a Major in Philosophy.

LOWER-LEVEL Requirements (5 courses; 15 credits)	
One of: PHIL 1010 PHIL 1020 PHIL 1100	 Intro to Philosophy: Great Thinkers: Ancient to Enlightenment Intro to Philosophy: Great Thinkers Enlightenment to Modern Intro to Philosophy: Problems and Themes
One of PHIL 2010 or PHIL 2210	 Intro to Ethics Contemporary Moral Issues
One of PHIL 2140 or PHIL 2150	 Foundations of Philosophy: Knowledge, Certainty and Skepticism Substance, Change and Identity
PHIL 2220	Elementary Formal Logic
At the lower-level students must take 1 more PHIL course.	
UPPER-LEVEL REQUIREMENTS – (10 courses; 30 credits):	
PHIL 3010	Ethics
PHIL 3140 or PHIL 3150	The Rationalists: Descartes, Spinoza, and Leibniz The Empiricists: Locke, Berkeley, and Hume
PHIL 3160 or PHIL 3170	Modern European Philosophy Topics in Continental Philosophy
PHIL 3500 or PHIL 3600	Metaphysics Knowledge, Power and Credibility

PHIL upper-level courses	Students must take 6 additional upper-level PHIL courses
In addition to the courses directly above, the following courses count for elective credit: **students may take a maximum of two courses of the following**: ENGL 3070, ENGL 3100, ENGL 3190, ENGL 3220, HIST 3520, POLI 3420, POLI 3440, POLI 3460, SOCI 3200. Students wanting to go to Graduate School in Philosophy should take all 18 credits of electives in Philosophy courses.	

Opportunities for Further Study

Graduates of the Bachelor of Arts in Philosophy may pursue graduate degrees or enter professional schools such as Law, the MBA, Education degrees or Post Baccalaureate Journalism.

Program Contact

Arts Advisor: Email artsadvising@tru.ca | Phone 250-371-5566

Philosophy Coordinator: Email rtapley@tru.ca | Phone 250-828-5495

Chair of Philosophy, History and Politics:

Email jmclaughlin@tru.ca | Phone 250-371-5734

Major in Psychology

Psychology is the scientific study of thoughts, feelings, actions, perceptions, physiological and neurological responses, and other behaviours in animals and humans. As both a scientific discipline and a profession, psychology relates to virtually every aspect of people's lives. Through research, psychology plays an important role in understanding and predicting human behaviour. Through clinical practice, psychology strives to help people to live more productive and fulfilling lives.

The Department of Psychology offers a variety of courses and the option of obtaining a major, minor or Honours in psychology as part of the Bachelor of Arts degree.

Admission Requirements

Students apply to the Bachelor of Art Degree program.

It is recommended that students declare a major in psychology as early as possible, well before the completion of 60 credits.

Students intending to major in psychology must see both a Psychology Major Advisor and a Bachelor of Arts Program Advisor. The major advisor will assist each student in selecting courses that will satisfy the major program requirements. The Arts Advisor will then ensure that all additional BA degree requirements are met.

Graduation Requirements – Major in Psychology

To graduate with a major in psychology, students are required to complete a minimum of 51 credits of psychology courses—comprised of 21 lower-level credits (7 courses) and 30 upper-level credits (10 courses), as described below.

In addition to the requirements for the major in psychology, students are expected to complete requirements for the BA degree. (120 credits)

Lower-Level Requirements

Lower-level required psychology courses: **Year 1 and 2 – 21 credits**	
15 credits required courses	
PSYC 1110	Introduction to Psychology 1
PSYC 1210	Introduction to Psychology 2
PSYC 2100	Analysis of Psychological Data
PSYC 2110	Introduction to Research Methods
PYSC 2040	Introduction to Biological Psychology
6 credits chosen from the following 2000-level courses:	
PSYC 2120	Introduction to Personality
PSYC 2130	Intro. To Developmental Psychology: Childhood and Adolescence
PSYC 2160	Introduction to Abnormal Psychology
PSYC 2210	Introduction to Cognition
PSYC 2220	Introduction to Social Psychology
PSYC 2230	Introduction to Developmental Psychology: Adulthood and Aging
Students may self-select from the following other 2000-level courses, not required for the major: (Lower level elective psychology courses).	
PSYC 2050	Drugs and Behaviour
PSYC 2300	Human Sexuality
PSYC 2910	Research Apprenticeship

Upper-Level Requirements

Years 3 and 4 – Minimum 30 credits	
Category A **Students complete at least 6 credits from courses designated Category A from the following list:**	
PSYC 3000	Psychiatric Clinical Disorders
PSYC 3010	Disorders Across the Lifespan
PSYC 3020	Infancy
PSYC 3030	Psychological Testing
PSYC 3080	Social Psychology
PSYC 3100	Clinical Psychology
PSYC 3110	Clinical Psychology: Theories and Systems of Psychotherapy
PSYC 3140	Health Psychology
PSYC 3150	Childhood and Adolescence
PSYC 3200	Personality
PSYC 3220	Adulthood and Aging
PSYC 3250	Community Psychology
PSYC 3360	Psychology of Language 1
PSYC 3380	Psychology of Emotion
PSYC 3400	Psychology and the Law
PSYC 3410	Forensic Psychology
PSYC 3720	Special Topics in Psychology 2
Category B **Students complete at least 6 credits from courses designated Category B from the following list:**	
PSYC 3060	Principles of Animal Behaviour
PSYC 3230	Conditioning and Behavioural Control
PSYC 3390	Human Neuropsychology
PSYC 3510	Visual Processes
PSYC 3520	Auditory, Tactile, and Chemical Processes
PSYC 3540	Cognition: Attention and Memory
PSYC 3550	Cognition: Language and Thought
PSYC 3560	Psychopharmacology
PSYC 3570	Neuroscience of Motivation and Emotion
PSYC 3580	Neuroscience of Learning and Memory
PSYC 3710	Special Topics in Psychology 1
Other Upper-Level Elective courses:	
Students majoring in Psychology will complete the remaining 18 upper level required credits by choosing from courses from Category A or Category B or the following options:	
PSYC 3240	History & System of Psychology
PSYC 3610	Research Methods and Statistics for Psychology
PSYC 4210	Advanced Topics in Psychology
PSYC 4220	Advanced Topics in Applied Psychology
Students may self-select from the following other 4000-level courses, not required for the major:	
PSYC 4100	Advanced Research Apprenticeship
PSYC 4400	Directed Studies in Psychology
Note: PSYC 2910 Research Apprenticeship and PSYC 4100 Advanced Research Apprenticeship	

PSYC 2910 and PSYC 4100 give students the opportunity to learn about psychological research by conducting research with a faculty supervisor. Students must have permission of a faculty member who is willing to supervise the research. Students may complete PSYC 2910 at any time during their degree. Students must meet the pre-requisites for PSYC 4100 prior to enrolment. PSYC 4100 does not count towards the 30 upper-level credits required for graduation with a major in psychology.

Note: PSYC 4400 Directed Studies

PSYC 4400 involves directed investigation of a problem, requiring a written report of the findings. The Directed Studies option is intended for those students who are pursuing Master's or Doctorate degrees in Psychology. Prior to enrolment, students must have satisfactory standing in his or her course work and permission of a faculty member who is willing to supervise the investigation. PSYC 4400 does not count towards the 30 upper-level credits required for graduation with a major in psychology.

Note: Only a selection of 3000 and 4000-level courses listed in the Calendar will be offered in any given academic year. Some courses will be rotated to ensure that a sufficient selection of courses is available over a two-year period to meet students' needs for their degree.

Honours Program in Psychology

An Honours program provides an opportunity for academically successful and motivated students to develop their research, writing, and analytical skills. Completion of an Honours program will strengthen a student's application to graduate schools and professional schools.

Honours in Psychology – Admission requirements

Students must complete 75 credits, including 15 upper-level psychology credits, with a GPA of 3.33 and a minimum grade of a 'B' in Psychology 1110, 1210, 2100, 2110, and 3610 to enter the Honours program, or by permission of the Honours Committee.

Students planning to complete the Honours program in Psychology **must** complete PSYC 3610 Research Methods and Statistics for Psychology, obtaining a minimum of a B grade, prior to enrolling in the Honours Thesis course, PSYC 4990. Students typically apply to enter the Honours Thesis course at the end of the winter semester prior to their intended commencement of PSYC 4990. Completion of the above requirements is necessary, but does not guarantee entry to Honours: entry to the Honours program also depends on the availability of a faculty member willing to supervise the student. Students who do not meet the above requirements may write an appeal to the Psychology Department Chair, who will present the appeal to the Honours Committee.

Honours Program in Psychology Graduation Requirements

Students must maintain a grade point average of 3.0 in all 3000 and 4000-level courses with no psychology course grade below a B- in order to graduate with the Honours degree.

In addition to the requirements for a major, an Honours degree requires completion of 120 credits. A minimum of 54 credits must be at the upper-level (3000 and 4000 level courses), of which 36 credits must be in Psychology (including PSYC 3610 and PSYC 4990).

Opportunities for further study

Students interested in pursuing graduate studies in psychology or professional programs should consider the honours program.

Program Contact

Arts Advisor: Email artsadvising@tru.ca | Phone 250-371-5566
Psychology Chair: Email jkampman@tru.ca | Phone 250-828-5234

Major in Sociology

Sociology is the study of human society and is a broadly based liberal arts and research discipline. Sociologists are devoted to the study of social groups and processes using applied logic in combination with empirical research to ascertain "what is" and "what can be".

The TRU Sociology major will give students extensive knowledge of the key social factors affecting human behaviour and also develop their skills in designing and evaluating research.

Admission Requirements

Students usually declare their major before the start of their third year of courses. All candidates are assigned a faculty member who will be their Major Program Advisor to ensure an appropriate selection of courses for the major selected.

Before students can declare their major they must have met the admission requirements for the BA.

Admission to the sociology major requires completion of SOCI 1110 and 1210 and two 2000-level sociology courses, of which three of the four sociology courses must receive grade C+ or above.

Major in Sociology Program Requirements

Year 1	
SOCI 1110	Introduction to Sociology I
SOCI 1210	Introduction to Sociology II
Year 2	
STAT 1200 or PSYC 2100	Introduction to Statistics Analysis of Psychological Data
SOCI 2720	Introduction to Research Methods
Plus one more second-year Sociology course	
Year 3 and 4	
SOCI 3200 and SOCI 3210 or SOCI 3220 and SOCI 3800 or SOCI 3820	Classical Social Theory Feminist Theory Contemporary Issues in Social Theory Introduction to Social Survey Design Qualitative Research Methods in Sociology
Plus 21 credits of any 3000-4000 level Sociology courses	
Admission to the major requires completion of SOCI 1110 and 1210 **and** two 2000-level Sociology courses, of which three of the four Sociology courses must receive a grade C+ or above.	

Program Contact

Arts Advisor: Email artsadvising@tru.ca | Phone 250-371-5566
Sociology Chair: Email dfarough@tru.ca

Major in Theatre Arts

Theatre is a collaborative form of fine art that uses live performers to present the experience of a real or imagined event before a live audience. At TRU we provide a training ground for practical application of theatre studies.

Students become not only collaborative and analytical, they develop the creative tools and techniques necessary for the creation of theatre. Our areas of study include Acting, Voice, Technical Theatre, Design, Directing and History.

The benefits of a theatre major are numerous in a job market that necessitates a prepared, confident and public persona. The quality of our education is most evidenced through our fully-mounted production season at TRU Actors Workshop Theatre.

Studying at TRU

The Theatre Arts Program offers a variety of undergraduate courses designed for both the theatre specialist and the generalist. Providing training for over 25 years, the theatre major is the only program outside the Lower Mainland and Vancouver Island region offering a full range of university-level theatre courses.

The **TRU Actors Workshop** Theatre is the live stage element of TRU's visual & performing arts department. Students enrolled in various acting and technical theatre courses have the opportunity to participate in several major productions each year, and may acquire credit through their performance and participation.

The Theatre Arts program is committed to student artistic development. Dedicated theatre students are eligible for several monetary awards for both junior and senior levels of study to encourage and reward technical and acting excellence. For more information on awards and bursaries, please contact Student Awards & Financial Support.

Students can also take advantage of the on-campus TRU Drama and Theatre (TRUDAT) club that typically features original and alternative material performed in Theatre Program's Black Box Theatre.

Careers

The Bachelor of Arts, Theatre Arts Major Program provides students with the opportunity to explore the complete range of the theatrical process, including acting, directing, technical theatre, design, history and theory. The program is designed for students intending on continuing their theatrical careers as drama teachers, for those considering graduate studies in theatre, and for students who desire further professional theatrical training.

Admission Requirements

Students apply to the Bachelor of Arts program and normally enter the Theatre Arts major program in their third year of study. Before entering the program, students must meet with the major's advisor to verify their qualifications and design the best-suited path for completing the BA degree.

Program Requirements

Students must complete all of the requirements for the Bachelor of Arts degree and complete a minimum of 54 credits in theatre arts courses, of which a minimum of 30 credits must be at the third- and fourth-year level. At least 6 credits must be at the fourth-year level (4000).

Year 1 and 2 Course Requirements –24 credits in the first and second year	
THTR 1100	Introduction to Theatre
THTR 1200	Introduction to Theatre 2
THTR 1110	Introduction to Acting
THTR 1210	Introduction to Acting 2
THTR 2110	Acting and Character Portrayal 1
THTR 2210	Acting and Character Portrayal 2
THTR 2120	Introduction to Technical Theatre
THTR 2220	Introduction to Technical Theatre 2

At least 30 credits in third- and fourth-year with 6 credits at 4000 level. The Theatre program recommends that Theatre Majors take the following upper-level courses:	
THTR 3600	The Role: Interpretation and Characterization 1
THTR 3610	The Role: Interpretation and Characterization 2
THTR 4000	Direction and Staging 1
THTR 4010	Direction and Staging 2
THTR 4600	Acting Styles 1
THTR 4610	Acting Styles 2

Program Contact

Arts Advisor: artsadvising@tru.ca | Phone 250-371-5566
Chair, Visual and Performing Arts: phone: 250-828-5480
Program coordinator: phone: 250-828-5189

Double Major Program

It is possible to complete a double major. Students should be aware that this option requires careful course planning and will normally involve taking additional courses in order to complete all of the basic BA requirements, as well as the specific major requirements for two subjects. To graduate with a double major, a student must include in the 120 credits required for the degree, at least 42 credits in each of two disciplines. At least 30 credits in each discipline must be in courses numbered 3000 or above. It is essential to consult an Arts Advisor at artsadvising@tru.ca before pursing this option.

Major in Communication

The Bachelor of Arts Major in Communication is a cross-disciplinary program that draws its theoretical foundations from many sources, including Rhetoric, Semantics, Psychology, Sociology, Cultural and Critical Studies, and even Economics. It applies these disciplinary concepts to consider the ways in which individuals and groups communicate with one another, persuade one another, or entertain one another. Courses in the major are taught from three perspectives: descriptions of communications processes, production (covering issues like composition, design, broadcasting, and policy/law), and criticism and critique.

The Bachelor of Arts, Major in Communication aims to supply students with the professional competencies and critical thinking perspectives necessary for diverse careers or graduate-level study in the field of communication.

The Major in Communication delivers an inspiring curriculum that combines core knowledge in academic communication studies with two streams in the areas of Public Relations and New Media studies. Students choose a focus in Communications and Public Relations or Communication and New Media Studies. Although there is some overlap in core courses, the two streams have different lower- and upper-level requirements.

The Communication and Public Relations stream covers the practical and commercial application of communication. If you have business, tourism, entrepreneurial and public service ambitions, this program will show you how communication can enhance your professional practices.

The Communication and New Media Studies stream covers the aesthetic, narrative, and theoretical aspects of technology, as well as computer-mediated communication. If you have an interest in the ways technology, design and business interact, this program is for you.

The combination of academic communication studies with the emphasis on applied skills in the key areas of public relations and new media distinguishes the major in Communication program and ensures that it is unique among existing post-secondary programs in British Columbia.

Bachelor of Arts, Major in Communication Admission Requirements
Students apply to the Bachelor of Arts degree.

Admission to the Bachelor of Arts degree requires:

1. BC Grade 12 (or equivalent), or mature student status
2. English 12/English 12 First Peoples with minimum of 73% (or equivalent)

Communication and New Media Studies Program Requirements

Communication and New Media Studies	**Required Courses** CREDITS	**Elective Courses** CREDITS
Year 1 and 2 (lower level)	30 credits	30 credits
Year 3 and 4 (upper level)	39 credits	21 credits
Total Credits for degree 120		

Major	**Credits**	**Courses**
Required Lower-Level		**Required:**
	6 credits	ENGL 1100, 1110
	6 credits	CMNS 1160, CMNS 1290
	12 credits	CMNS 2160, CMNS 2170, CMNS 2200, CMNS 2290
	3 credits	VISA 1500
	3 credits	One of: CMNS 1500, CMNS 1750 or COMP 1810 Or three of the following 1 credit courses: COMP 1040, 1060, 1070, 1080, 1130, 1150
Electives – Lower Level	30 credits	**Recommended:** CMNS 2170 JOUR 2010, 2020, 2060, 2200, 2210, 2240 PHIL 2240, 2380, FILM, 1120, 1190, 2100, 2200 MIST 2610
Upper-Level	9 credits	**Required Core:** CMNS 3000, CMNS 3210, CMNS 3800
	30 credits	Any upper-level CMNS, JOUR or FILM courses
Electives – Upper Level	21 credits	**Recommended:** JOUR 3510, 3030, 4110, 4210,4150 COMP 4980 ENGL 3160, 3170, 3180, 3340, 4510 PHIL 3390, 4400
All students should consult with the Major Program Advisor on course selection.		

Communication and Public Relations Program Requirements

Communication and Public Relations	**Required Courses** CREDITS	**Elective Courses** CREDITS
Year 1 and 2	33 credits	27 credits
Year 3 and 4	36 credits	24 credits
Total Credits for degree 120		

Major	**Credits**	**Courses**
Lower-Level		**Required:**
	6 credits	Any ENGL
	6 credits	CMNS 1160, CMNS 1290
	6 credits	EVNT 2070*, EVNT 2260*
	9 credits	CMNS 2160, CMNS 2170, CMNS 2290
	3 credits	JOUR 2060
	3 credits	TMGT 1150 or MKTG 2430 or MKTG 2431
Electives- lower level	27 credits	**Recommended:** CONV 1061 CMNS 1500, 2180, 2200 DAAD 1950, 1960, 2950, 2960 EVNT 1100, 2100, 2240 HRMN 2820 JOUR 2020, 2200, 2210 MIST 2610, 2611 ORGB 2810 PHIL 2240, 2380 VISA 1500
Upper-Level	12 credits	**Required Core:** CMNS 3000, 3550, 4530, JOUR 2800, 3800, 4800
	27 credits	Any upper-level CMNS, JOUR or FILM courses MKTG 4450, 3470, 4470, 4480 TMGT 4050, 4090
Electives – upper-level	21 credits	**Recommended:** CMNS 3210, 3800 JOUR 3400, 4020, 3510, 4210 MKTG 3450, 4410, 4460, 4490, 3480
All students should consult with the Major Program Advisor on course selection. *Note: Prerequisite waived for Communications Major		

Graduation Requirements
Successful completion of 120 credits with a minimum 2.0 GPA and a minimum 30 credits and a maximum 42 credits in the prescribed and recommended upper-level communication, journalism and film courses.

Program Contact

Communication and New Media Program Advising
Email commadvising@tru.ca.

Bachelor of Arts Minors

Major programs may be combined with a minor in any TRU academic discipline. A major without a minor is also possible. One or more minors without a major is also possible. This allows students to acquire extensive experience in an area outside the discipline of their major, and to identify this experience as a component of their degree on their transcript.

To complete a baccalaureate degree with a minor, a student must complete the specified required credits for the minor program, as well as the credits required for their degree.

Unless otherwise specified, the credit requirements are all that is necessary to complete a minor in any discipline in conjunction with a major.

Some disciplines may have their own specific requirements for a minor. In most cases, but not for all minors, students will typically include in the 120 credits required for their baccalaureate degree, between 30 and 42 credits in the area of their minor. Usually, at least 18 of these minor credits are at the 3000-4000 level.

Students are advised to consult an Arts Advisor by email at artsadvising@tru.ca if they intend to complete a minor. For general information regarding minors, please refer to TRU Policy ED 16-0, Types of Undergraduate and Graduate Credentials.

Minor in Archaeology and Geology (interdisciplinary) (30 credits)
3 credits in first or second year archaeology; **and** GEOL 1110, **or** GEOG 1000 **and** GEOG 2050, **or** BIOL 1210 **and** GEOG 2290.

Any 3000 or 4000 level archaeology course **and** GEOG 3080 **or,** any 3000 or 4000 level geomorphology course **or,** any 3000 or 4000 level geology course **and** any 3000 or 4000 level geology course.

Minor in Creative Writing (30 credits)

- 6 credits of English 1100, 1110, 1120, 1140, 1210. English 1150 is strongly recommended but not required;
- 6 credits of second-year English (creative writing) credits from the following list: English 2060, 2070, 2080;
- 18 upper-level credits as follows;
  - Students must take at least four (4) of the following core courses toward the 18 credits: ENGL 3330, ENGL 3340, ENGL 3360, ENGL 3370, ENGL 3380, ENGL 3390
  - Students must take at least one (1) course from the following list toward the 18 credits:
    ENGL 3130, 3140, 3150, 3160, 3170 , 3180, 3190, 3260 , 3300, 3310 ,3320 , 3350, 3550, ENGL 3650, 3660, 3710 , 3730, 3740, 3810, 3820, 3840, 3850 , 3860, 3890, 3940, 4000, 4040, 4130, 4140, 4150, 4160, 4240 , 4250, 4260, 4340, 4350, 4360, 4370, 4440, 4450, 4460 ,4470, 4510, 4600, 4610, 4780, 4790
  - Students may take one course from the following list toward the 18 credits: CMNS/ENGL 3080, JOUR 4210, JOUR 4310, JOUR 4590

Minor in Economics
At least 30 credits in economics (ECON), including ECON 1900 and ECON 1950. A minimum of 18 credits must be at the upper-level (3000 and 4000) level economics (ECON).

Minor in English (30 credits)

- 6 credits of ENGL 1100, 1110, 1120, 1140, or 1210
- 6 credits of second-year literature courses:
  - ENGL 2110 (required)
  - 3 credits from the following list: ENGL 2040, 2120, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2240, 2250, 2260, 2270, 2400, 2410
- At least 18 credits of 3000- and 4000-level English courses and no more than 3 of the 18 credits can be chosen from the following list: courses numbered from ENGL 3070 to ENGL 3110, 3080, 3200, courses numbered from ENGL 3270 to ENGL 3280, 3330, 3340, 3360, 3370, 3380 and 3390

Minor in Environmental Economics and Sustainable Development

- 18 credits of upper-level courses as follows;
- 4 courses (12 credits) from the following list:
  ECON 3410, ECON 3690, ECON 3700, ECON 3710, ECON 3990*, ECON 3730, ECON 3740, ECON 4720, ECON 4990*

  ***Note:** ECON 3990 and 4990 can be used only if selected topics covered are related to environmental economics and sustainable development. The Chairs/Program Advisor with consultation will make this decision.*

- Plus at least 2 courses (6 credits) from the following list:
  ANTH 3270, ARCH 3260 or ARCH 4060, GEOG 3100 or GEOG 4230 or GEOG 4800, PHIL 4350, SOCI 3600

Minor in Geography (30 credits)

- 3 credits from 1000 level human geography: GEOG 1010 or GEOG 1110
- 3 credits from 1000 level physical geography: GEOG 1000
- 6 additional credits from 1000 and 2000 level GEOG courses
- 18 3000 or 4000 level GEOG credits

Minor in History (30 credits)
12 credits of 1000 and 2000 level history, and an additional 18 credits in 3000 and 4000 level history courses.

Minor in Language and Global Studies (33 credits)

- 12 credits or equivalent of one additional language (other than English)
- 3 credits in ANTH 1210 – Introduction to Cultural Anthropology.
- A minimum of 18 credits from a pre-established list of upper-level electives in social sciences, humanities, fine arts, of which 3 credits must be in cultural theory. One of the above must include a TRU approved study abroad experience in the target language (e.g. Field School, Exchange semester(s), Co-op work term, etc.).

Minor in Mathematics (30 credits)
12 credits at the 1000 and 2000 level mathematics; plus an additional 18 credits at the 3000 and 4000 level mathematics.

Minor in Philosophy (30 credits)
12 credits of 1000 and 2000 level philosophy; plus an additional 18 credits in 3000 and 4000 level philosophy.

Minor in Political Studies (30 credits)
Political Studies 1110, 1210, plus 6 credits at the 1000 and 2000 level, and an additional 18 credits in 3000 and 4000 level political studies courses.

Minor in Psychology (30 credits)
Psychology 1110, 1210, 2100, 2110; plus an additional 18 credits in 3000 and 4000 level psychology courses.

Minor in Sociology (30 credits)
Sociology 1110, 1210, plus 6 credits at the 1000 and 2000 level, and an additional 18 credits in 3000 and 4000 level sociology.

Minor in Theatre (36 credits)
A minimum of 36 credits including THTR 1100/1200, THTR 1110/1210, THTR 2110/2210 and 18 credits in 3000 and 4000 level theatre courses.

Minor in Visual Arts (36 credits)
A minimum of 36, and a maximum of 42 credits in visual arts courses. VISA 1010, 1020, 1030 and VISA 1110/1120 and VISA 1210 are required courses.
A minimum of 18 credits of upper level (3000 or 4000) VISA courses.

Minors jointly offered with other faculties:

Minor in Biology jointly offered by the Faculty of Science

- BIOL 2130 and BIOL 2340
- Minimum of 3 additional 2000 level biology credits
- Plus 18 credits of biology at the 3000 or 4000 level

Minor in Management jointly offered by the School of Business and Economics

- One of MATH 1070, 1100, 1140, or 1380
- Plus one of STAT 1200, STAT 2000, PSYC 2100, ECON 2320, or BIOL 3000
- Plus ACCT 2210, MIST 2610 or COMP 1020, ORGB 2810, FNCE 3120, MKTG 3430, HRMN 3820.
- Plus 9 additional credits in 3000 and 4000 level business courses.

For specific requirements for other minors in non-arts disciplines, refer to specific faculties and their programs in the TRU Calendar and on faculty web pages. Also, consult the appropriate Program Advisor.

Bachelor of Fine Arts (Visual Arts)

A four-year undergraduate degree. Graduates receive a Bachelor of Fine Arts degree.

Learning Options

Full-time or part-time study: Students may study full-time or part-time.

On-campus: The degree is offered on the main campus of TRU in Kamloops.
Program start dates: Students may enter the program in the fall, winter, or summer semesters.

Program Overview

The Bachelor of Fine Arts (BFA) degree in Visual Arts is shaped around a core curriculum of studio and art history/theory courses. There is also the option to pursue a program stream in Gallery Studies. The BFA degree encourages an interdisciplinary approach to learning which takes advantage of the many facets of the university community. Students completing the degree may pursue a variety of employment opportunities or further educational studies.

Gallery Studies

Students interested in Gallery Studies may take courses in and choose to specialize in this area. Courses such as Gallery Management and Public Art provide students with an understanding of gallery infrastructures and programming at the local, regional, national, and international levels, as well as the economic structure and impact of Arts communities. Other courses in curating and exhibition installation deal more specifically with the planning and implementing of exhibitions. The TRU Visual Arts Gallery and the Kamloops Art Gallery are potential teaching spaces. Directed Studies in Gallery Studies at the fourth-year level allow students to pursue this area in greater depth.

Program Options

The Fine Arts Department offers the following program options:

- Visual Arts Studio Certificate
- Visual Arts Diploma
- Literary and Art History Certificate

Studio and Art History Offerings

The Visual Arts Program is equipped with extensive studios for courses in Drawing, Foundation, Painting, Photography, Printmaking (etching and silkscreen), as well as Directed Studies. See the Visual Arts web page for a more detailed listing of studios and equipment. While instruction is offered in each studio area, we encourage students to work across these disciplines as well, particularly in the fourth-year Graduating Studies offerings. Courses in these areas, as well as courses in historical, modern and contemporary Art History and Theory make up the core of the BFA.

TRU's Visual Arts facilities also include an Art Gallery for student, faculty and other exhibitions. Students are encouraged to take part in Gallery activities through the submission of work for scheduled exhibitions, and are invited to consider proposing exhibitions for the Gallery as well.

Admission Requirements

Educational Requirements:

1. BC Grade 12, or equivalent, or mature student status
2. English 12/English 12 First Peoples with 73% (or equivalent)

Application Process

Students apply online at tru.ca/apply

Transfer to TRU

Students are admitted to the BFA per the standard TRU Transfer Policy.

Laddering from other programs

Credit from the Visual Arts Diploma and Visual Arts Studio Certificate may be applied to the BFA in Visual Arts.

Program Requirements

The BFA degree requires completion of 120 credits (the equivalent of four years of full-time study). The first 60 credits are usually earned by completing the TRU Visual Arts Diploma. The remaining 60 credits are earned by completing a combination of lower- and upper-level course work in Studio, as well as History and Theory of Art subject areas, within Visual Arts and other academic disciplines.

The BFA degree requires completion of a minimum of 120 (with a minimum cumulative GPA of 2.0 required for graduation).

A. General Educational Requirements: 24 credits

1. **6 credits of first-year English:** (ENGL 1100 and one of ENGL 1110, 1120, 1140 or 1210)
2. **9 credits of humanities and social sciences** (minimum of 3 credits in each). Humanities: communication, film studies, history, modern languages, music, philosophy, theatre, social sciences: anthropology, Canadian studies, economics, geography, political science, psychology, sociology
3. **3 credits of math or science**
   Recommended course: MATH 1420: Mathematics for Visual Artists
   Math/science: biology, chemistry, computing science, geology, mathematics, physics.

This requirement may also be met by courses with a lab component, such as computing science, physical geography, statistics

4. **6 credits of academic electives:** Students must take 6 credits at any level in any approved academic discipline. Students may take up to three of these credits from visual arts courses in art history or art theory.

B. History and Theory of Art (HTA) Requirements: 18 credits

1. **18 credits in HTA**; a minimum of 9 credits must be selected from 3000/4000 level
   Required HTA courses are: VISA 1110, VISA 1120, VISA 4990

C. Studio Requirements: 78 credits

To complete a BFA degree, students must have: **78 credits of Studio**

1. **39 credits of studio must be at the third- and fourth-year (3000 and 4000 level).** Students intending to complete their program of studies in Studio Art should take VISA 4910 (12 credits).
   Students intending to complete their program of studies in Gallery Studies should take VISA 4920 (12 credits). Gallery Studies require six less credits in third-year studio courses but six more credits in third year HTA courses to make up the 39 upper-level credit requirements.
   Required studio courses are: VISA 1010, VISA 1020, VISA 1030, VISA 1210, VISA 1220, VISA 4910
2. 15 credits of first-year studio courses, 24 credits of second-year studio courses, 27 credits of third-year studio courses and 12 credits of fourth-year studio courses.

Course Requirements

Below is an example of a typical four year program plan

Year 1 (Foundation Year): 30 credits	
Fall semester	**Winter Semester**
ENGL 1100 (3 credits)	ENGL 1110, 1120, 1140 or 1210 (3 credits)
VISA 1010 (3 credits)	VISA 1020 (3 credits)
VISA 1110 (3 credits)	VISA 1120 (3 credits)
VISA 1210 (3 credits)	VISA 1220 (3 credits)
non-VISA academic elective (3 credits)	VISA 1030 (3 credits)
Year 2: 30 credits	
Second Year Art History or Theory	(3 credits)
Second Year Studio courses	(24 credits)
non-VISA academic elective or Art History/Theory	(3 credits)
Year 3: 30 credits	
3rd Year Art History or Theory	(3 credits)
3rd Year Studio courses in at least two areas	(21 credits)
non-VISA academic electives	(6 credits)
Year 4: 30 credits	
3rd Year Studio courses	(6 credits)
VISA 4910 Graduating Studio	(12 credits)
VISA 4990 Graduating Seminar	(6 credits)
non-VISA academic electives	(6 credits)
Total program requirements	**120 CREDITS**

Students wishing to complete the BFA program should consult the Department Chair, Visual Art Coordinator, or BFA Program Advisor.

Program Contacts

Visual and Performing Arts

Chair: email lbennett@tru.ca | phone 250-828-5480
Program Coordinator: phone: 250-828-5189

Bachelor of Interdisciplinary Studies

The Bachelor of Interdisciplinary Studies is a two-year degree program which students generally enter after two years, or 60 credits, of undergraduate study.

Learning Options

Full-time or part-time study

On-campus: The degree is offered on the Kamloops campus.

Distance Education: Many third- and fourth-year courses are available by distance education through the Open Learning Division of TRU.
Program start dates: Students may enter the program in the fall or winter semester.

Program Overview

The Bachelor of Interdisciplinary Studies program allows students to design their own customized curriculum.
Students may:

- Tailor studies to a specific career or post-graduate program. Students applying to professional programs or graduate school can adapt their curriculum to their educational needs.
- Choose from options within the BIS including such streams as pre-architecture, pre-medicine, pre-law, and pre-urban planning.
- Receive credit for relevant workplace learning.
- Build on a Diploma or Associate Degree. Transfer students with two-year diplomas (the equivalent of 60 credits) from other institutions may ladder into the BIS degree.
- Explore career options through Co-op Education placements.
- Conduct independent research.
- Work closely with experienced and knowledgeable faculty mentors.

Students wanting a more flexible and varied learning experience in their university degree program, and those who are not yet sure of a career path, can complete a wide range of courses during their first two years of study before entering the BIS degree. This allows students to explore their interests, passions and potential career options without having to plan a specific major within an arts, science or business degree program.

The BIS degree is also designed to build on two-year diplomas and Associate Degrees offered across British Columbia and throughout Canada. It can normally be completed in four semesters of full-time study.

Learning experiences

Directed Studies

These courses, which are available across a wide range of disciplines, allow students the opportunity to investigate a specific issue or topic within the discipline, in consultation with faculty.

Service Learning

Through faculty supervised service learning opportunities, senior-level students share their knowledge and skills with the community through approved community-based projects.

Research Opportunities

TRU provides opportunities and support for undergraduate students to be involved in research in many disciplines, and graduation from the BIS degree includes the completion of a required Research Project course.

Co-operative Education

Co-operative Education allows students to integrate academic studies with paid periods of relevant experience. Students alternate between periods of on-campus, full-time study, and work terms, which are full-time, paid employment. Students are expected to complete multiple work terms in more than one season of the year.

Students must have a cumulative GPA of 2.67 to enter the BIS. BIS Co-op Option and must maintain a cumulative GPA of 2.67 throughout the program. Students must have completed 60 credits before beginning Work Term 1.

Visit Co-operative Education on the web for more information.

International Experiences

Study Abroad

TRU offers a range of international exchange opportunities, and is a member of a large, international Study Abroad program that gives students access to universities around the world. BIS students may want to spend one or more semesters of study at another university.

International Field Schools

TRU offers a number of general and program specific field schools every year. These schools run from two to six weeks in length and offer course credit that can be applied to your degree.

Admission

- English 12/English 12 First Peoples with a minimum of 73% (or equivalent)
- Successful completion of 60 post-secondary credits (diploma) with a minimum GPA of 2.5, or
- Successful completion of an Associate of Arts or an Associate of Science degree with a minimum GPA of 2.5.

Application Process

Students apply online at Apply for Admission

Admission Decisions

Admission priority will be given to those applicants who present above-average grades, a superior admission (500 words) Statement of Interest and who, where necessary, interview well. Students are required to email their Statement of Interest to the arts advisors for processing at artsadvising@tru.ca.

Selective Interview Process

Applicants who meet the minimum requirements for entry into the BIS program may be requested to attend an interview. Students are notified well in advance of the date, time and location of the interviews, which will be held on campus in Kamloops. In exceptional circumstances, for applicants applying from out of town, interviews may be completed by telephone. Students are advised to contact an arts advisor by email at artsadvising@tru.ca for more information with regard to admission and program requirements.

Transfer to TRU

Transferring students with 60 university credits from recognized institutions may ladder seamlessly into the TRU BIS Degree. Evaluation of transfer credit is done on an individual basis through consultation with an arts advisor, the Associate Dean of Arts or designate, except where formal transfer agreements are in place.

Students enrolling in the BIS program and who are returning adult professionals with diplomas and work experience that may be relevant for the degree may access the TRU Prior Learning Assessment and Recognition Policy (PLAR) for assessment of relevant prior workplace learning (TRU Policy ED 2-0). Any PLAR assessment is recognized as TRU credit.

Students may use up to 6 credits of specialized diploma courses to satisfy six upper-level credits in a related concentration. This exchange of credit will be determined through consultation with an arts advisor and the Associate Dean of Arts or designate.

Program Requirements

A student will typically enter the program with;

60 credits from a diploma program; a further 60 credits (minimum 48 credits from upper-level undergraduate courses) are required to complete the degree.

The minimum requirement for graduation is 120 credits (60 pre-program credits + 60 additional academic credits completed when approved into the BIS program). Some students may require more than 120 credits for graduation.

The upper-level course credit requirements include successful completion of a minimum of **three core courses** including:

- **IDIS 3000**: Introduction to Interdisciplinary Studies (3 credits)
- **IDIS 4980**: Interdisciplinary Studies: The Research Project (3 credits)
- **IDIS 4990**: Interdisciplinary Studies: The Graduating Essay (3 credits)

Additional upper-level requirements include:

- A critical thinking course (3 credits) selected from an appropriate discipline. (Examples include ANTH 3050: Theory in archaeology; ENGL 3320: Modern critical theories; Any upper-level Philosophy course; Any upper-level Open University critical thinking course)

- A research methods course (3 credits) selected from an appropriate discipline. (Examples include TMGT: Research tourism; BUSN 3980: Business research methodology; SOCI 3820: Qualitative Research Methods in Sociology; PSYC 3030: Tests and measurements; Any upper-level Open University research methods course
- Area of concentration (min 18 credits; all upper-level)
- Writing intensive courses (6 credits)
- Breadth requirement (9 credits)
- Electives (up to 12 credits, chosen to fulfill graduation requirements and/or career goals)

Students may require more than an additional 60 upper-level credits to complete the BIS degree if lower-level academic prerequisites are required to enter upper-level courses.

Program Contacts

Arts Advisors: Email artsadvising@tru.ca | Phone 250-371-5566
Program Advisor: Interim Associate Dean of Arts | Phone 250-377-6085
Faculty Advisor: Tracy Penny Light email tpennylight@tru.ca

Bachelor of Journalism

The Bachelor of Journalism is an intensive, four-year degree that blends theory and skill development to train students for jobs as journalists and communication specialists. The practical side of the program focuses on writing, editing, interviewing, taking photographs, and working with new technology to produce print and online publications. The theory side of the program emphasizes media law, journalistic ethics, decision-making, and critical thinking.

Learning Options

Program options:

- Bachelor of Bachelor of Journalism
- Bachelor of Journalism with a major in Public Relations

Full-time or part-time study

On-campus: The program is offered on the main campus of TRU in Kamloops.

Program start date: Students usually enter the Journalism programs in September each year.

Program Overview

Students enter the Bachelor of Journalism program by starting at first year, or by transferring into the program in second or third year. During the first two years of the program, students complete foundational journalism courses. In the third and fourth years of the program, students fulfill the remaining credit requirements.

The curriculum is designed to encompass the following pedagogical areas: (1) basic journalism skills and understanding of the critical knowledge areas required by journalists and other professional communicators; (2) deadline reporting skills and expertise in common areas of news coverage; (3) familiarity with industry software and the high-level production skills gained by producing publications; (4) theoretical understanding of the problems and challenges faced in the field; and (5) focused knowledge and skill in an area relevant to each student's career goals.

Once accepted into the program, students are expected to consult with the program chair to work out a program plan according to their individual objectives.

The program emphasizes the relationship between theory and practice. Students are encouraged to develop and hone their skills through working with widely-circulated hard copy and electronic publications.

The program is also structured to accommodate students with a wide range of educational and practical experience, as well as to provide a broad set of career and educational options for graduates.

International Experiences

Students may be able to complete courses toward their degree at a university outside Canada. Consult the Department Chair before enrolling in the Study Abroad program.

Entry Options

Most students enter into the Bachelor of Journalism program at the first year and complete four years of study in the program. Alternatively, students may transfer into the program at the third year after completing 60 credits of post-secondary study. Admission is competitive; preference is given to those whose post-secondary studies show evidence of strong writing skills; a good understanding of Canadian history, politics, and economy; strong problem solving and critical thinking abilities; good oral communication and interpersonal skills; a basic understanding of visual design; and a general familiarity with computers. Students are further encouraged to gain volunteer experience in the field before applying to the program.

Admission Requirements

First-year entry admission requirements

- BC Grade 12 or mature student status or equivalent
- English 12/English 12 First Peoples with a minimum of 73% or equivalent

Third-year entry admission requirements

Students entering at third-year must have completed 60 post-secondary credits.

Applicants who have taken no prior journalism or communication courses are required to complete 48 credits of journalism, including the four core second-year courses. Core curriculum will be adjusted during academic counseling as appropriate for students who have already taken journalism or communication courses in their first and second years. (For a detailed course schedule, see chart below).

Writing Sample

All applications for the Bachelor of Journalism program must include a writing sample, 500 words or less, on the topic "Why I want to be a Journalist." The department recommends a meeting with the Department Chair, in person, by phone, or email correspondence, prior to the application deadline.

Application Process

Students apply online at apply for admission

Transfer to TRU

Students may transfer up to 60 credits of acceptable post-secondary study from any recognized college or university.

Evaluation of transfer credit is done on an individual basis, except where formal transfer agreements are in place. Contact the Department Chair for more information on credit transfer towards entry into the Journalism program.

Prior Learning Assessment and Recognition (PLAR)

PLAR credit is routinely assessed for Journalism students, especially for mature students with prior professional work in the field of Journalism, Communications, Media, and Public Relations, following TRU Education Policy on PLAR. Consultation with the Department Chair is recommended for students seeking information and/or assessment on the suitability of potential PLAR credits.

Program details

In the four-year Bachelor of Journalism program, students complete 60 Journalism credits, with 12 credits required in each of the first- and second-years, and 18 credits required in each of the third- and fourth-years.

Bachelor of Journalism	Required Courses (Credits)	Elective Courses (Credits)
Year 1 and 2	8 (24 credits)	12 (36 credits)
Year 3 and 4	12 (36 credits)	8 (24 credits)
	20 (60 credits)	20 (60 credits)
		Total Credits for Degree = 120

Bachelor of Journalism: Years 1 and 2 program and course description

In first- and second-year courses, the program emphasizes composition skills and media/communication literacy. The curriculum emphasizes the basics of reporting, writing and storytelling in different media formats and an introduction to the theoretical and historical foundations of journalism. First- and second-year courses will be offered every year.

Bachelor of Journalism: Years 3 and 4 program and course description

The emphasis in the senior years enables students to develop expertise in multi-media and multi-format journalism. Students also have more opportunity to concentrate on developing expertise in specific reporting subjects or beats, reinforced by additional course work in other disciplines. Upper-level journalism courses will rotate every two years to offer more choice. Two senior core courses (JOUR 3700: Media Law and Media Ethics, and JOUR 3520: Research Methods) and some writing-intensive and production courses will be offered every year. Journalism students will be advised to complete a senior project course (JOUR 4750). The Beat Reporting course (JOUR 3230) is a shell course, covering the basics of beat reporting while enabling students to specialize in subjects of their choice.

Experiential learning options: Service learning and practicum placements

The degree program includes an optional practicum placement at a newspaper or magazine, or in the media or public relations departments of government or private agencies. Alternatively, through a six-to-twelve-week supervised service-learning position, students explore the range of career possibilities in journalism, public relations, and organizational communication. Students propose practicum and service learning placements in collaboration with department faculty. Department supervision and evaluation of field work is completed in collaboration with a field supervisor. Students prepare for practicums (the traditional way into the newspaper business) and/or service learning positions in the Career Preparation Courses. Three core, one-credit courses, offered in second, third, and fourth years, help students prepare for and seek practical placements or service learning projects during their second- and third-years, and for jobs or graduate programs after fourth year. Journalism students are also encouraged to pursue publication on a freelance basis and to volunteer for short-term internships with local papers and other publications to gain invaluable "real-world" experience.

General practicum inquiries are welcome. Please contact: jouradvising@tru.ca

Program Requirements

Students entering the program at the third-year have different program requirements as explained below. The Bachelor of Journalism with a major in public relations has different program requirements as seen below:

YEAR 1 and YEAR 2 – Bachelor of Journalism 8 required courses (24 credits)	
CMNS 1160	Introduction to Communications
CMNS 2290	Technical Communication
CMNS 2160	Mass Comm. and Popular Culture
JOUR 2060	Introduction to Multimedia
JOUR 2200	Introduction to Reporting Skills
JOUR 2020	Media Theory and History
JOUR 2210	Introduction to News Photography and Videography
VISA 1500	Introduction to Visual Culture
ELECTIVES (total of 36 credits) RECOMMENDED	
CMNS 1290	Introduction to Professional Writing
CMNS 2180	Social Networks, Online Identities and Internet Memes
ENGL 1100 OR ENGL 1110	Introduction to University Writing or Critical Reading and Writing
CMNS 2170	Interpersonal Communication
CMNS 2200	Technology and Communication
Electives (1000 and 2000 courses) – Unspecified: These are a student's choice from areas such as (but not limited to) Arts, Languages, Sciences, or Business.	
Year 1 & Year 2 total credits 60	

Year 3 and 4 – Upper- Level Credits 12 required courses (36 credits)	
JOUR 3700	Media Law and Media Ethics
JOUR 3520	Research Methods
JOUR 2800 JOUR 3800 JOUR 4800	Career Prep (1 credit each bundled)
And, choose a minimum of 9 courses from this list:	
JOUR 3030	News Writing
JOUR 3110	Layout and Design
JOUR 3160	Online Journalism
JOUR 3230	Beat Reporting
JOUR 3510	Photojournalism
JOUR 3540	Feature Writing
CMNS 3550	Media and Public Relations
JOUR 3990	Service Learning: Internship
JOUR 4020	Advanced Media Theory
JOUR 4110	Issues in Journalism: A Case Studies Approach
JOUR 4130	Advanced Online and Multimedia Journalism
JOUR 4150	Popular Science, Nature and Technology Writing
JOUR 4210	Freelance Writing
JOUR 4270	Investigative Journalism
JOUR 4310	Literary Journalism
JOUR 4590	Outlaw Journalism
JOUR 4750	Senior Project
Year 3 and 4 Electives (24 credits) Recommended Electives	
CMNS 3050	Communication, Marketing and Design
CMNS 3070	Studies in Communication and Rhetoric
CMNS 3230	Information Design
CMNS 3500	Studies in Public Relations
CMNS 3510	Intercultural Communication
CMNS 3600	Studies in Communication, Film and Digital Production
CMNS 3700	Studies in Communication and New Media
CMNS 3800	Communication and New Media
CMNS 4610	Field Course in Documentary Filmmaking
EDVP 4160	The Arts and Media Literacy
FILM 3850	Film Theory and Critical Thinking
Other Electives (3000 and 4000 level courses) – Unspecified: These are a student's choice from areas such as (but not limited to) Arts, Languages, Sciences, or Business.	

Third-Year Entry Course Requirements

Entry into the Bachelor of Journalism is available to students who have completed two years, or the equivalent of 60 credits of pre-journalism course work at any college or university in BC or in other parts of Canada. Block transfer agreements are in place for some BC and Alberta institutions, allowing students who have completed a journalism studies diploma, or equivalent, to transfer directly into third- and fourth-year courses. Consultation with the Department Chair is highly recommended to facilitate this transfer process.

Course Requirements for students transferring into the Bachelor of Journalism with no prior journalism or communication courses: Students are required to take 48 credits (16 journalism courses), including the core courses, as detailed below.

Third-Year Entry – Sample course schedule	
JOUR 2020	Media Theory and History
JOUR 2060	Introduction to Multimedia
JOUR 2200	Introduction to Reporting Skills
JOUR 2210	Introduction to News Photography and Videography
JOUR 2800	Journalism Career Prep (1 credit)
JOUR 3030	News Writing
JOUR 3110	Layout and Design
JOUR 3160	Online Journalism
JOUR 3230	Beat Reporting
JOUR 3520	Journalism Research Methods
JOUR 3540	Feature Writing
JOUR 3510	Photojournalism
CMNS 3550	Media and Public Relations
JOUR 3980	Journalism Internship
JOUR 3990	Directed Study: Internship
JOUR 3700	Media law and Ethics
JOUR 3800	Journalism Career Preparation
JOUR 4020	Advanced Media Theory
JOUR 4110	Issues in Journalism: A Case Studies Approach
JOUR 4130	Advanced Online and Multimedia Journalism
JOUR 4150	Popular Science, Nature and Technology Writing
JOUR 4210	Freelance Writing
JOUR 4270	Investigative Journalism
JOUR 4310	Literary Journalism
JOUR 4590	Outlaw Journalism
JOUR 4750	Journalism Senior Project
JOUR 4800	Journalism Career Prep (1 credit)
Electives (3000 and 4000 level courses) – Unspecified: These are a student's choice from areas such as (but not limited to) Arts, Languages, Sciences, or Business.	
Year 3 & Year 4 total credits 60	

Recommendations for Electives

Students select journalism courses and electives in consultation with the program chair. Students should use their electives to develop a particular specialty, or to help fill in gaps in their general knowledge. For example, students seeking to enhance their writing skills may develop a concentration in courses offered through the English department.

Similarly, the departments of Philosophy, History, Geography, Sociology, and Political Science offer a number of 3000 and 4000 level courses that enable students to enhance their knowledge of Canadian history, politics, and social structure. These requirements reflect the value that TRU places on a broadly-based education in the Humanities, the Sciences and Social Sciences, and Business. In addition to communication and new media courses, we recommend that students in the Bachelor of Journalism program select a range of courses, in particular those with depth in Canadian content, and several writing-intensive courses.

Bachelor of Journalism, Major in Public Relations

To pursue a major in public relations, journalism students are required to meet the Bachelor of Journalism core requirements, in addition to completing 24 credits of specific journalism, communication, and business credits as shown below.

Major in Public Relations - Required Courses:

Required Courses:	
CMNS 3550	Media and Public Relations
CMNS 4530	Organizational Communications
MKTG 2430	Marketing Management
Plus 6 credits selected from:	
JOUR 3110	Layout and Design
JOUR 3160	Online Journalism
CMNS 3050	Communication, Marketing, and Design
CMNS 3500	Selected Topics in Communication and Public Relations
CMNS 3510	Intercultural and Cross-Cultural Communication

CMNS 3600	Studies in Communication, Film, and Digital Production
CMNS 3700	Studies in Communication and New Media
CMNS 3800	Communication and New Media
Plus 6 credits selected from:	
MNGT 3710	Business Ethics in Society
MKTG 3470	Consumer Behavior
MKTG 3480	Marketing Research
IBUS 3510	International Business
HRMN 2820	Human Resource Management
HRMN 3840	Employee and Labour Relations
ORGB 3770	Teamwork in Organizations
MKTG 4460	Marketing Strategy
MKTG 4470	International Marketing
MKTG 4480	Integrated Marketing Communications

Careers in Journalism

The Bachelor of Journalism degree prepares students for careers in journalism (working for newspapers, magazines, and online publications) and in the communications field (working in the media or public relations departments of government agencies, corporations, and non-profit and advocacy organizations). Students have the opportunity to work with an expert faculty of experienced journalists and state-of-the-art equipment in a program that encourages them to develop the professional and entrepreneurial skills they need to flourish in a changing media environment.

Program Contact

Journalism Program Advisor email jouradvising@tru.ca
Journalism, Communication and New Media

Associate of Arts Degree

Two-year, undergraduate program. Graduates receive an Associate of Arts degree (AA).

Learning Options

Full-time or part-time study is available.

On-campus: The degree is offered on the Kamloops campus of TRU and a selection of first- and second-year courses are offered at the Williams Lake campus.

Program start dates: Students may enter the program in fall, winter or summer semester.

Distance Education: Many courses are available by distance education. For greater flexibility, TRU also offers the Associate of Arts – Open Learning degree.

Program Overview

The associate degree is designed to provide an educational experience that lays a solid foundation for further study. Students are required to complete a broad range of course offerings balanced with in-depth study in science. Since many students continue their studies, the requirements are sufficiently flexible to enable students to complete the required prerequisites for upper-level course work in their intended major.

Admission Requirements

1. BC Grade 12 or equivalent, or mature student status.
2. Mathematics 11 or higher is strongly recommended for students pursuing an education degree or a major in geography, sociology or psychology.
3. English 12/English 12 First Peoples with a minimum of 73 % or equivalent.

To ensure a good selection of courses, it is recommended that applicants apply as soon as possible after October 1.

Application Process

Students apply online at Apply for Admission

Contact Academic Advising at 250-828-5075 or email advising@tru.ca for more information.

Program Requirements

60 credits of first and second year BC University transfer courses, which include:

1. 6 credits in first year English;
2. 36 credits in Arts which shall include: 6 credits in the social sciences, 6 credits in humanities (including the creative and performing arts);
3. 24 credits of Arts which must include 18 credits of second year Arts in two or more subject areas (disciplines);
4. 9 credits in science, including three credits of math or statistics or computing science, and three credits in a Lab Science.
5. 9 credits of first-or second-year courses.

No course will be used to meet more than one of the specific requirements. Upper-level courses may be used to meet program requirements. A cumulative GPA of 2.0 for all courses counting towards the credential.

Suggested Areas of Study

Humanities	Social Science	Lab Science	Science
Communications	Anthropology	Biology	Anthropology
English	Economics	Chemistry	Biology
French	Sociology	Geology	Chemistry
History	Political Studies	Physics	Computing
Music	Psychology (except PSYC 2100)	Physical Geography	Stats (including PSYC 2100)
Spanish	Geography (non-physical)		Mathematics
Speech			Physical Geography (GEOG 1000, 2020, 2050, 2700, 2750)
Fine Arts			Physics
German			
Japanese			
Philosophy			
Theatre			

Police and Justice Studies Diploma

A two-year undergraduate program that prepares graduates for careers in policing and other justice-related areas.

Program Overview

The Police and Justice Studies Diploma is a two-year diploma program that helps prepare graduates for a wide variety of careers in law, law enforcement, corrections, crime prevention, and public and private justice administration. Students who wish to continue their education can choose to ladder into degree programs in criminology, arts or business. The program was developed in close liaison with Canadian Police and other justice agencies to ensure graduates would have the breadth of skills and knowledge required for a justice-related career.

Admission Requirements

Educational Requirements:

1. BC Grade 12 or equivalent
2. English 12 or English 12 First Peoples with a minimum of 73% or equivalent

General Requirements:

- A current resume and statement of career objectives is to be submitted with the application.
- Applicants should note that some required courses require physical fitness standards and may require a criminal record check.
- Year two students are required to have a BC Class 5, 7N or equivalent to complete a component of the JUST 2450 course (Police Skills).

Application Process

Students apply online at Apply for Admission

The Police and Justice Studies program has one intake per year in September and there are a limited number of seats.

Laddering

Graduates of the TRU Police and Justice Diploma may ladder directly (60 credits) to the **BA, Major in Criminology**. The Criminology program is offered through a combination of on-campus and online courses (blended program), or fully online allowing students to study both full and part-time. Please contact the Open Learning Advisors at AdvisorC@tru.ca for more details.

Graduates of the Police and Justice program may also have the full 60 credits accepted into the on-campus Bachelor of Arts. Students considering laddering into the **Bachelor of Arts** contact an arts advisor at artsadvising@tru.ca or call 250-371-5566 regarding elective selection.

Students considering laddering into the **Bachelor of Business Administration**, contact the BBA Advisor at sobeadvisor@tru.ca regarding elective selection.

Students considering transferring into the **Bachelor of Social Work** contact the BSW Advisor at socialwork@tru.ca regarding elective selection.

For more information on the Bachelor of Arts in Sociology and Anthropology please visit: *Sociology and Anthropology*.

Program Requirements

To graduate with a diploma in Police and Justice Studies, students must complete 60 credits, comprising of 48 required credits and 12 elective credits. A cumulative GPA of 2.0 is required for graduation.	
Year one courses	
Fall semester: September to December	
MIST 2610	Management Information Systems
CMNS 1810 or CMNS 1811**	Professional and Academic Composition
JUST 1140	Human Behaviour
PHED 1230	Conditioning
PHIL 1110 or PHIL 1111 **	Introduction to Critical Thinking
Winter semester / January to April	
CMNS 1980	Professional Presentation/Communication, Police and Justice Studies
JUST 1250	Tactical Communication Skills for Criminal Justice
JUST 1310	Introduction to Criminal Justice Services in Canada
POLI 1110 or POLI 1111**	The Government and Politics of Canada Canadian Government and Politics
Plus: one elective	Elective (3 credits)
Year two courses	
Fall semester / September to December	
JUST 2450	Police Skills
JUST 2510	Introduction to Policing
PHIL 2010	Introduction to Ethics
SOCI 2590 or PSYC 2160 or PSYC 2161**	Deviance and Control Introduction to Abnormal Psychology Abnormal Psychology
Plus: one elective	Elective (3 credits)
Winter semester / January to April	
JUST 2350	Introduction to Canadian Law and Legal Institutions
JUST 2810	Field Work Practicum
SOCI 2010 or ANTH 2140 or ANTH 2150 or ANTH 2600	Race and Ethnicity Canadian Native Peoples Cultural Explorations Minorities in the Modern World
Plus: two electives	Electives (6 credits)

Students select 12 credits of any academic elective courses. Suggested electives are listed below:

Elective Course List	
CYCA 2500	Special Topics
CYCA 2620	Introduction to Working with Groups in Human Service Practice
STAT 1200	Introduction to Statistics
STAT 1201**	Introduction to Probability and Statistics
PSYC 1110	Introduction to Psychology 1
PSYC 1111	Introduction to Psychology I
PSYC 1210	Introduction to Psychology 2
PSYC 1211**	Introduction to Psychology II
SOCI 1110*	Introduction to Sociology I
SOCI 1111**	Introduction to Sociology I
SOCI 1210*	Introduction to Sociology II
SOCI 1211**	Introduction to Sociology II
SOCI 2230	Collective Behaviour
SOCI 2500	Crime and Society
SOCI 2501**	The Sociology of Crime
SOCI 2720	Introduction to Research Methods
	Any other 1000-4000 level courses
*Sociology note: SOCI 1110 (or ANTH 1210) is strongly recommended but not required. Students taking only SOCI 2010 and SOCI 2590 are not required to take SOCI 1110 or SOCI 1210. **OL – Open learning courses.	

Visual Arts Diploma

A two-year undergraduate program. Graduates receive a Visual Arts diploma.

Learning Options

Full-time or part-time study is available on the TRU Kamloops campus.

Program start dates: Students may enter the program in the fall or winter semester.

Program Overview

The Visual Arts Diploma allows students to sample a diverse selection of different media, such as drawing, painting, printmaking, sculpture and multi-media to gain an introduction to contemporary art practices along with art history and theory. The diploma is useful in a resume for job applications or entrance to academic programs that require some background theory and practice in visual arts.

The TRU Visual Arts Diploma program consists of two years of core and elective courses, all of which may be taken singly, if desired. The holder of a TRU Visual Arts Diploma may enter the third year of the Bachelor of Fine Arts (Visual Arts) degree, may complete a Minor in Visual Arts or may enter other university programs. It is strongly recommended that students wishing to pursue the BFA degree at TRU or other post-secondary institutions complete the Visual Arts Diploma to achieve third-year standing before advancing to upper-level courses in Visual Arts.

Admission Requirements

Students are admitted to the Bachelor of Fine Arts program.

1. BC Grade 12 or equivalent or mature student status.
2. English 12/English 12 First Peoples with a minimum of 73% or equivalent.

Application Process

Students apply online at Apply for Admission

Program Requirements

Year 1 (Foundation Year) 30 Credits	
Fall semester	
ENGL 1100- 3 credits	Introduction to University Writing
VISA 1010- 3 credits	2D Creative Design: Thinking and Making (Studio)
VISA 1110 – 3 credits	History of Art 1
VISA 1210- 3 credits	Drawing 1: Studio
Academic Elective 3 credits	
Winter semester	
ENGL 1110 or 1120 or 1140 or 1210 3 credits	Critical Reading and Writing, Intro.to Poetry, Intro.to Drama, or Intro. to Drama and Poetry
VISA 1020- 3 credits	2D Art Foundation 2
VISA 1030 – 3 credits	3D Foundation
VISA 1120 – 3 credits	History of Art 2
VISA 1220 – 3 credits	Drawing 2: Studio
Year 2 30 Credits	
First or second year art history or theory 3 credits	
Second year studio courses in two areas – 24 credits	
Academic elective or art history or theory 3 credits	

Students qualify for the TRU Visual Arts Diploma on completion of 60 credits, 48 of which are in Visual Arts. At least 21 of the Visual Arts credits should be achieved at second year level. An overall grade point average of 2.33 is also required for diploma status.

It is recommended that diploma students complete 2D and 3D Foundation courses: VISA 1010, 1020 and 1030 as well as Drawing 1 and 2: VISA 1210 and VISA 1220, before progressing to the second year of visual arts courses. Diploma students must also complete the first-year History of Art courses: VISA 1110, 1120 as well as ENGL 1100 and one of ENGL 1110, 1120, 1140, 1210 or VISA 1500 before the end of the second year of study. Electives to complete the required credits may be selected from the other subject areas. Students who complete the Visual Arts Diploma with a grade point average of 2.33 are considered to have achieved third-year standing and may progress into third year of the BFA Program.

Students planning to complete a BFA degree should consult the Visual Arts Program Coordinator.

Visual Arts Gallery

Situated beside Student Street in the Old Main building, this gallery is used to present exhibitions of student, faculty and community art works. It is run by the Visual Arts Gallery Committee.

Laddering

Credits earned in the Visual Arts Diploma may be applied toward the BFA Degree. Contact the Visual Arts Program Coordinator for details.

Program Contacts

Visual and Performing Arts Chair: Email lbennett@truc.ca | Phone 250-828-5480

Program Coordinator: Email bfamoreinfo@tru.ca | Phone 250-828-5482.

Or email artsadvising@tru.ca

Visual Arts Studio Certificate

A one-year program. Graduates receive a Visual Arts Studio Certificate.

Learning Options

Full-time or part-time study is available on the Kamloops campus.

Program Overview

The Visual Arts Certificate program gives students an introduction to current art practices, in 2D and 3D media, with emphasis on 2D design, drawing, painting, colour theory, printmaking, photography, 3D design and sculpture.

The certificate is useful on a resume for job applications or entrance to academic programs that require some practical knowledge in visual arts.
Visual arts courses can also be counted toward a Bachelor of Arts with a minor in visual arts, or toward other university degrees

The TRU Visual Arts Certificate program consists of 30 credits of first- and second-year visual arts studio classes, usually taken over 2 years, all of which may be taken singly, if desired.

Admission Requirements

1. BC Grade 12 or equivalent
2. English 12/English 12 First Peoples with a minimum of 73% or equivalent

The Enrolment Services Admissions department will arrange for evaluation, on request, of official transcripts for work completed elsewhere and will grant transfer credit towards specific programs.

Application Process

Students apply online at Apply for Admission

Transfer Credit

Certain courses may be challenged for credit. The purpose of this challenge is to determine whether knowledge and experience gained outside the university is equivalent to that required for successful completion of a course.

The maximum transfer credit and challenge credit will be 50% of the credit value of the program.

Some courses in university certificate programs may require a prerequisite which is not a part of the certificate program itself.

Program Requirements

The Visual Arts Studio Certificate requires completion of a minimum of 30 credits as follows:

Visual Arts Studio Certificate	
Required:	
VISA 1010/1020/1030 (Foundation Courses)	9 credits
VISA 1210 Drawing: Studio	3 credits
Plus:	
Any six second year VISA Studio courses	18 credits
Total program requirements	**30 credits**

Laddering

Credits earned in the Visual Arts Studio Certificate may be applied towards the Visual Arts Diploma.

Program Contacts

Visual and Performing Arts Chair: Email lbennett@tru.ca | Phone 250-828-5480

Program Coordinator: Email bfamoreinfo@tru.ca | Phone 250-828-5189

Painting and Drawing Certificate

A two-semester program. Graduates receive a Painting and Drawing Certificate.

Learning Options

Study full-time or part-time on the Kamloops campus.

Program start dates: Students may enter the program in September, January or May if they are taking courses on campus. Some distance courses are also based on September or January start dates, while others offer the ability to start at any time.

Program Overview

Students studying Visual Arts, who prefer to work in 2D media, can choose a Painting and Drawing Certificate. The courses can be applied towards a Visual Arts Diploma and towards a Bachelor of Fine Arts, a Bachelor of Arts with a Minor in Visual Arts, or other university degrees at the same time. The certificate allows students to sample a diverse selection of core 2D media: painting, oil and acrylic; and drawing, which would also include practices such as life drawing, collage and assemblage to allow a solid grounding in contemporary 2D art practices. The certificate is useful in a resume for job applications or entrance to academic programs that require a background in contemporary painting and drawing practices, or to move towards a career as a practicing artist.

Application process

Students apply online at Apply for Admission

Program Requirements

30 credits of core courses, all of which may be taken singly, if desired.

VISA 1010	2-D Creative Design: Thinking and Making(Studio)
VISA 1020	2-D Foundation 2
VISA 1210	Drawing 1: Studio
VISA 1220	Drawing 2: Studio
VISA 2610	Painting 1
VISA 2620	Painting 2

VISA 2210	Drawing 3
VISA 2220	Drawing 4: Studio
VISA 3610	Painting 3
VISA 3620	Painting 4
VISA 3630	Studio Media: Painting and Drawing

Program Contacts

Visual and Performing Arts Chair: Email lbennett@tru.ca | Phone 250-828-5480

Visual Arts Coordinator: Email bfamoreinfo@tru.ca | Phone 250-828-5189

Modern Languages Certificate

Learning Options

Study full-time or part-time on the Kamloops campus.

Program start dates: Students may enter the program in September, January or May if they are taking courses on campus. Some distance courses are also based on September or January start dates, while others offer the ability to start at any time.

Admission Requirements

1. BC Grade 12 or Adult Dogwood or mature student status.
2. English 12/English 12 First Peoples with a minimum of 73% or equivalent.

Application process: Students apply online at Apply for Admission

Laddering

Course credits in the Certificate in World Languages and Cultures may be applied toward the BA Degree.

Program Requirements

Program Requirements (8 courses = 24 credits)	
FRAN 2110/2210	Intermediate French 1 and 2
FRAN 2310/2410	Advanced Intermediate French 1 and 2
FRAN 3110/3210	Advanced French 1 and 2
Plus any two other approved modern language courses at the 1000 level.	
Total credits 24	

Associate of Arts Modern Languages Degree

A sixty- credit Associate of Arts program.

Learning Options

Study full-time or part-time on the Kamloops campus.

Program start dates: Students may enter the program in September, January or May if they are taking courses on campus. Some distance courses are also based on September or January start dates, while others offer the ability to start at any time.

International Opportunities

Study abroad

TRU offers a range of International Exchange opportunities, and is a member of a large, international Study Abroad program that gives students access to universities around the world. Students may want to spend one or more semesters of study at another university.

International field schools

A number of general and program specific field schools are offered every year. These schools run from two to six weeks in length and offer course credit that may be applied to your Associate of Arts degree.

Admission Requirements

1. BC Grade 12 or Adult Dogwood or mature student status.
2. English 12/English 12 First Peoples with a minimum of 73% or equivalent.

Application Process

Students apply online at Apply for Admission

Laddering

Course credits in the Associate of Arts (Modern Languages) may be applied toward the BA Degree.

Program Requirements

General Requirements	60 credits of first- and second-year BC university transfer courses
	Cumulative GPA of 2.0 of all courses counting towards the credential
Specific Requirements	6 credits of first-year English
	36 credits in Arts including: - 6 credits in social sciences - 6 credits in humanities (including the creative and performing arts)
	24 credits of Arts which must include 18 credits of second-year Arts in two or more subject areas (disciplines)
	9 credits in science, including three semester credits of math or statistics or computing science, and three credits in a lab science
	9 credits of first- or-second-year courses
Total Credits - 60	

Associate of Arts Degree: French Option

6 credits of first-year English 1100/1110 or 1110/ 1210
6 credits in social Science
6 credits in Arts electives at the 1000 or 2000 level
6 credits in French at the 1000 level courses
12 credits in French at the 2000 level courses
6 credits in 2000 level electives other than French

9 credits in science:
- 3 credits in math or statistics or computing Science
- 3 credits in a lab science (biology/ chemistry/ physical geography/ geology/physics)
- 3 additional credits in science or lab science

9 credits of first or second-year courses:
(These courses may be outside the Arts and Sciences)

Associate of Arts Degree: Language Option

Option 1:
6 credits of first-year English 1100/1110 or 1110/1210
6 credits in Social Science
6 credits in Arts electives at the 1000 or 2000 level
6 credits in first-year language
12 credits in second-year language
6 credits in 2000 level electives other than a language
9 credits in Science:
- 3 credits in math or statistics or computing science
- 3 credits in a lab science (biology/ chemistry/ physical geography/ geology/physics)
- 3 additional credits in science or lab science

9 credits of first- or second- year courses:
(These courses may be outside the Arts and Sciences)

Option 2:
6 credits of first-year English 1100/1110 or 1110/1210
6 credits in social science
12 credits in first-year language courses
12 credits in second-year language courses
6 credits in 2000 level electives (6 credits other than language)
9 credits in science:
- 3 credits in math or statistics or computing science
- 3 credits in a lab science (biology/ chemistry/ physical geography/ geology/physics)
- 3 additional credits in Science or Lab Science

9 credits of first-or-second-year courses:
(These courses may be outside the Arts and Sciences)
Please discuss the various program options with the program coordinator.

Program Contacts

Modern Languages Coordinator: Email adominik@tru.ca | Phone 250-828-5253

World Languages and Cultures Certificate

Learning Options

Study full-time or part-time on the Kamloops campus.

Program start dates: Students taking course on campus may enter the program in September, January, or May. Some distance courses are also based on September or January start dates, while others offer the ability to start at any time.

Program Overview

In a global environment, broad-based formal instruction in language and culture is of the utmost importance. Employers in all fields recognize that to be competitive and successful, their companies and employees must demonstrate increased knowledge, sensitivity and appreciation of other cultures.

The certificate in world languages and cultures meets this need as it educates successful graduates to better serve an increasing market of global and intercultural travelers and to communicate more effectively with contacts worldwide. The goal of the program is to provide students with a solid academic base in world languages and cultures through a combination of language and culture courses and field schools/study abroad.

Admission Requirements

1. BC Grade 12 or Adult Dogwood or mature student status
2. English 12/English 12 First Peoples with a minimum of 73% or equivalent

Application Process

Students apply online at Apply for Admission

Program Requirements

- 12 credits of language instruction in two different languages at the 1000 level
- 6 credits of languages instruction at the 2000 level
- 3 credits in cultural theory from:
  ANTH 2150, or ANTH 3000 or ANTH 4600 or GEOG 3200
- 3 or more credits of an ML-approved, cultural/ language-oriented field school or credits earned through study abroad
- 12 credits of electives in at least 3 different disciplines from:
  - ANTH 1210, 2140, 2150, 2250, 2600, 3030, 3000, 3280, 3390, 4010, 4030, 4040, 4330, 4600,
  - CHIN 1110, 1210
  - CMNS 3020, 3510
  - ENGL 2000, 2180, 3120, 3130, 4450, 4460, 4470
  - FILM 2200, 3250
  - FNST 2300
  - FRAN 1210, 2110, 2210, 2310, 2410, 3110, 3210, 3510, 3610, 2050, 2060, 3810, 3710, 4110, 4210, 4510, 4710
  - GEOG 1010, 3200, 3900 4230, 4240
  - Any German course
  - HIST 1160, 1260, 2020, 2180, 2250,2280, 2700, 3030, 3060, 3160, 3170, 4050, 4120, 4130, 4200
  - JAPA 1210, 2110, 2210, 2150, 2250, 2600
  - JOUR 3400
  - LING 2010, 2020
  - MLAN 1110, 1210, 2700
  - PHIL 3160, 3390, 3490, 3900
  - POLI 2150, 2220, 3070, 3500, 3520, 3640, 4060, 4900
  - SOCI 1110, 1210, 2010, 2160, 3030, 3990, 4130, 4600, 4730
  - SPAN 1001, 1011, 1110, 1210 2110, 2150, 2250, 2500, 2510, 3010, 3020
  - VISA 1110, 1120, 1500, 2120, 2130, 2140, 3150, 3160

THOMPSON RIVERS UNIVERSITY

Aboriginal Studies Certificate

A 24-credit certificate students can obtain in the course of completing a degree. Graduates who meet the certificate credit requirements receive an Aboriginal Studies Certificate.

Learning Options

Full-time or part-time Study: Students complete the program on a full-time or part-time basis in conjunction with a degree.

On-campus: Courses are offered at the Kamloops campus. Some courses may also be available through TRU OL.

Program Overview

Aboriginal / Indigenous studies is an interdisciplinary field of inquiry that seeks to understand the ways in which indigenous peoples worldwide, despite their incredible diversity, share a common experience of colonization. Aboriginal and Indigenous studies is thus interested in historical contexts, political struggles, cultural expressions, and the lived ongoing effects of colonialism.

The Aboriginal Studies Certificate provides students the opportunity to concentrate on aboriginal / Indigenous studies as part of their degree. Students are encouraged to explore issues through a broad range of disciplinary course offerings. As Indigenous issues cross disciplinary boundaries, so too does this certificate.

Application Process

Apply to the Bachelor of Arts online at Apply for Admission

Program Requirements

Aboriginal Studies Certificate	
The certificate in Aboriginal Studies requires the completion of at least 24 credits in courses designated as "Aboriginal/Indigenous content" courses (some courses may have additional prerequisites).	
ARCH 2010	Introduction to Archaeology
ANTH 1210	Introduction to Cultural Anthropology
ANTH 2140*	Canadian Native Peoples
ARCH 2190	Ancient North Americans
ARCH 2230	Native Peoples of British Columbia
ENGL 2410	Aboriginal Canadian Literature
GEOG 2230	The Regional Geography of British Columbia and Yukon
HIST 2020	History of the Native Peoples of Canada
POLI 1110	The Government and Politics of Canada
SOCI 2010	Race and Ethnicity
TMGT 1020	Cultural Heritage and Nature Interpretation
* highly recommended as an introduction to Aboriginal Studies	
Note: The following courses would not normally be accessible to students in a certificate program due to the individual course prerequisites and the requirement of admittance to the bachelor's degree programs for upper-level courses. In special circumstances, however, it may be possible for non-traditional students to be admitted to these courses, which may be applied towards the credits for the certificate.	
ARCH 3060	Summer Field Training in Archaeology
ANTH 3270	First Nations Natural Resource Management
ANTH 4010	Native Peoples of North America
ANTH 4040	Peoples and Cultures of the North American Arctic
ANTH 4050	Canadian Status/Treaty Indian Reserve Communities
ARCH 4060	Cultural Resource Management
ARCH 4110	Prehistory of a Special Area in the New World
ARCH 4200	Archaeology of British Columbia
ENGL 4460	Studies in Commonwealth/Postcolonial Literature
ENGL 4470	Studies in Indigenous Literature
POLI 4060	Topics in Latin American Politics
SOCW 3540	Indigenous People and Human Services
THTR 3260	*History of Canadian Theatre - (*Not Currently Available)

Program Contact

Program Advisor
Email lcooke@tru.ca | Phone 250-828-7290

Literary and Art History Certificate

A one-year program. Graduates receive a Literary and Art History Certificate.

Learning Options

Study full-time or part-time on the TRU Kamloops campus.

Program start dates: Students may enter the program in September, January, or May if they are taking courses on campus. Some distance courses are also based on September or January start dates, while others offer the ability to start at any time.

Program Overview

The Literary and Art History Certificate helps students understand the natural connection between the written word and art. So often these activities overlap and, by making a concentration of these subject areas through select courses, students are offered the opportunity to see how it is that the ideas or creative impulse of the day, and not the medium, that often determines what is made.

Students of art history will be fascinated to learn that, while there are romantic painters, there are also romantic writers, and some like William Blake do both.

Their ideas come out of the social milieu of the day and it is through the study across disciplines that the student is able to gauge the breadth of these contemporary ideas.

Admission Requirements

1. BC Grade 12 or equivalent.
2. English 12/English 12 First Peoples with a minimum of 73 or equivalent.

Program Requirements

Literary And Art History Certificate	
ENGL 1100/1110/1210/1120/1140	(any two) first-year English
ENGL 2110/2210	Survey of English Literature
VISA 1110/1120	History of Art 1 and 2
VISA 2110/2120	History of Art: Renaissance Art and Architecture and Seventeenth and Eighteenth Century Art
VISA 2130/2140	A Survey of Modern Art 1 and 2

Laddering

Credits earned in the Literary and Art History Certificate can be applied toward the BFA Degree.

Program Contacts

Visual and Performing Arts Chair:

Email lbennett@tru.ca | Phone 250-250-828-5480

Visual Arts Coordinator: visualarts@tru.ca |250-828-5482

Cultural and Social Explorations Certificate

Learning Options

Study full-time or part-time on the TRU Kamloops campus.

Program start dates: Students may enter the program in September, January or May if they are taking courses on campus. Some distance courses are also based on September or January start dates, while others offer the ability to start at any time.

Admission Requirements

1. BC Grade 12 or equivalent
2. English 12/English 12 First Peoples with a minimum of 73 or equivalent

Program Requirements

Cultural and Social Explorations Certificate	
ANTH 1210	Introduction to Cultural Anthropology
GEOG 1010 and 1110	People, Places and Landscapes/World Regional Geography
POLI 1210	Contemporary Ideologies
SOCI 1110 and 1210	Introduction to Sociology I and II
Plus any three of:	
ANTH 2140	Canadian Native Peoples
ANTH 2150	Studies in Ethnography
GEOG 2120	Geography in an Urban World
POLI 2150	Comparative Politics
POLI 2220	Political Philosophy

Program Contacts

Arts Advisor: Email artsadvising@tru.ca

School of Business and Economics

Master of Business Administration

Program Overview

The Master of Business Administration (MBA) program focuses on producing managers and leaders who can meet current market challenges, with an emphasis on decision making in an uncertain environment; interpersonal and communication skills; ethics and social responsibility; and globalization. The program also caters to those wanting to develop their academic and applied research skills through its Graduate Thesis and Graduate Project Options. The completion of a thesis or project can serve as a stepping-stone to a PhD program and an eventual career in academia or consulting.

TRU's MBA program is unique among Canadian universities in that the same program is offered in the campus-based and online modalities on a full-time or part-time basis. This provides students with the ability to adopt the learning style that best suits them and to adjust their education to accommodate their busy work and personal schedules. Through the use of innovative online learning technologies, the MBA ensures all students receive the same rich learning experience regardless of modality with an emphasis on quality interaction among fellow students, faculty and industry professionals.

The courses in the MBA were specifically selected to develop the knowledge and applied skills needed to achieve success at the management and executive levels of an organization in any field. Students complete the required courses in the MBA Core and select between three completion options: the Course-Based Option, Graduate Thesis Option or Graduate Project Option.

Learning Options

Study full-time or part-time. Study on campus or by distance education.

Program start dates:

GDBA - September (campus or online), January (campus or online), May (campus or online)

MBA - September (campus or online), January (campus or online), May (online)

Admission Requirements

Graduate Diploma in Business Administration

To be admitted to the GDBA, students should meet each of the following requirements:

1. **Education Requirement** – An acceptable three- or four-year undergraduate degree in any discipline with a minimum B average (GPA of 3.00 on a scale of 4.33 or local equivalent) in the last 60 credits.

2. **Language Requirement** – Applicants who did not complete their undergraduate degree at an English language university in a country where English is the primary language should have:
   - A minimum TOEFL score of 587 with a TWE of 5.0 or higher (paper-based test), or a minimum score of 94 with no section below 20 (IBT), **or**
   - A minimum IELTS score of at least 7.0 (with no band below 6.5), **or**
   - Completion of TRU ENGL 1100 or 1101 and CMNS 1290 or 1291 with a minimum B.

3. **Quantitative and Computing Skills Requirement**
   Applicants should possess adequate quantitative skills assessed through successful completion of specific undergraduate courses in quantitative subjects. Applicants should also have adequate computing skills which include having a strong background in word processing presentation and spreadsheet software.

Applicants who do not meet the education or language proficiency requirements, or do not have adequate quantitative and computing skills may be accepted conditionally, but must undertake approved developmental activities prior to the commencement of the program to upgrade their skills.

Master of Business Administration

To be admitted to the MBA, students must complete each course in the GDBA with a minimum B average (GPA of 3.00 on a scale of 4.33) or receive a course waiver or transfer credit for the courses by the MBA degree committee.

Program Requirements

Graduate Diploma in Business Administration

BUSN 5010/BUSN 5011	Managerial Statistics
BUSN 5020/BUSN 5021	Financial Accounting
BUSN 5030/BUSN 5031	Management Accounting
BUSN 5040/BUSN 5041	Global Economics
BUSN 5050/BUSN 5051	Marketing Management
BUSN 5060/BUSN 5061	Human Resource Management

MBA

Core	
BUSN 6010/BUSN 6011	Ethics and Corporate Social Responsibility
BUSN 6020/BUSN 6021	Corporate Finance
BUSN 6030/BUSN 6031	International Business
BUSN 6040/BUSN 6041	Leadership and Organizational Development
BUSN 6050/BUSN 6051	Supply Chain Management
BUSN 6060/BUSN 6061	Strategic Management Information Systems
BUSN 6070/BUSN 6071	Project Management and Consulting Methods
BUSN 6080/BUSN 6081	Strategic Management

Course-Based Option	
BUSN 6150/BUSN 6151	Advanced Marketing Management
BUSN 6210/BUSN 6211	Advanced Corporate Finance
BUSN 6250/BUSN 6251	Decision Analysis and Modelling
BUSN 6310/BUSN 6311	Innovation and Entrepreneurship
Graduate Thesis or Project Option	
BUSN 6950/BUSN 6951	Research Methods, Preparation, and Presentation
BUSN 6960 BUSN 6970	Graduate Thesis **or** Graduate Project

Note: The online version of a course ends with a "1" such as BUSN 6151. Students may take a mixture of campus and online courses when completing their degree.

Course Waiver/Transfer Credit

Graduate Diploma in Business Administration
Students may receive a course waiver for GDBA courses if the degree committee determines they have equivalent recent undergraduate or graduate course work in the area from an acceptable institution. All students should receive a grade of B (GPA 3.00) or higher in the corresponding undergraduate or graduate course(s) to receive a waiver.

MBA
Students may receive transfer credit for MBA courses if the MBA degree committee determines they have adequate graduate course work in the area from an acceptable institution. All students must receive a grade of B (GPA 3.00) or higher in the corresponding graduate course(s) to receive credit.

Graduation Requirements

Graduate Diploma in Business Administration
Students who successfully complete the program will be awarded a GDBA, subject to the program residency requirement of nine (9) credits completed at TRU. Students must maintain an overall GPA of 3.00 in order to graduate.

Students have three years from the date of admission to complete the program. The degree committee will consider applications for a leave of absence to temporarily suspend this period.

MBA
Students who successfully complete each course or receive a course waiver or transfer credit will be awarded an MBA, subject to the program residency requirement of 7 courses. The minimum passing grade in each course will be a grade of B-. Students must maintain an overall program GPA of 3.00 in order to graduate. A student who receives a grade of F in three or more 6000-level courses will be required to withdraw from the program, regardless of their grade point average.

Program Contact

School of Business and Economics graduate programs advising
Email mba@tru.ca | Phone 1-877-663-4087 | tru.ca/mba

Master in Environmental Economics and Management

Program Overview

The Master in Environmental Economics and Management (MEEM) is a course-based program that prepares graduates to make major contributions to the field of economic sustainable management. They acquire a broad understanding of the business environment, advanced management skills and specialized knowledge in the emerging area of sustainability.

The MEEM differs from TRU's Master of Science in Environmental Economics and Management (MScEEM) in that students take additional courses from the MBA program instead of completing a thesis or project.

The MEEM experience at TRU is divided into two parts: the Graduate Diploma in Business Administration (GDBA) and the MEEM. The purpose of the GDBA is to ensure all students regardless of their educational backgrounds have the business knowledge and skills to successfully apply the economic sustainable management principles learned. Students must complete the six courses in the GDBA to be admitted to the MEEM, but may receive a course waiver for some or all of the GDBA courses based on their previous academic record. Applicants with an undergraduate degree in business from an acceptable institution may be admitted directly to the MEEM program.

Learning Options

Study full-time or part-time is available
Study on-campus. Some courses may be taken by distance education.
Program start dates: September

Admission Requirements

To be admitted to the MEEM, students should meet each of the following requirements.

1. Education Requirement – Applicants should have:

- An acceptable three or four-year undergraduate degree in any discipline with a minimum B average (GPA of 3.0 on a scale of 4.33 or local equivalent) in the last 60 credits.
- Successfully completed each course in the GDBA with a minimum GPA of 3.00 or receive a course waiver for some or all of the GDBA courses by the degree committee based on their previous academic record. Applicants with an undergraduate degree in business from an acceptable institution may be eligible to be admitted directly to the MEEM.

2. Language Requirement – Applicants who did not complete their undergraduate degree at an English language university in a country where English is the primary language should have:

- A minimum TOEFL score of 587 with a TWE of 5.0 or higher (paper-based test), **or** minimum score of 94 with no section below 20 (IBT), **or**
- A minimum IELTS score of 7.0 (with no band below 6.5), **or**
- Completion of TRU ENGL 1100 or 1101 and CMNS 1290 or 1291 with a minimum B

3. Interview and References Requirement– Applicants should demonstrate the maturity, motivation, and communication skills to be successful in the program. This will be assessed by means of an interview, a personal written statement of purpose of study, and two letters of reference from academics or professionals.

4. Quantitative and Computing Skills Requirement– Applicants should possess adequate quantitative skills assessed through successful completion of specific undergraduate courses in quantitative subjects. Applicants should have adequate computing skills which include having a strong background in word processing, presentation and spreadsheet software.

Applicants who do not meet the education or language requirements or do not have adequate quantitative and computing skills will be asked to undertake approved developmental activities prior to the commencement of the program to upgrade their skills. Also, applicants with deficiencies in economics will be requested to take an additional undergraduate course in principles of microeconomics and obtain a minimum B.

Program Requirements

ECON 6010	Principles of Environmental Economics and Natural Resource Economics
ECON 6020	Applied Microeconomics for Sustainable Management
ECON 6030	Foundations of Cost-Benefit Analysis
ECON 6040	Valuation Methods for Cost-Benefit Analysis
ECON 6050	Sustainable Community Economic Development
ECON 6060	Applications of Environmental Economics and Natural Resource Economics
ECON 6070	Sustainable Macroeconomic Development
ECON 6080	Policy and Regulation for Sustainable Management
BUSN 6010/BUSN 6011	Ethics and Corporate Social Responsibility
BUSN 6040/BUSN 6041	Leadership and Organizational Development
BUSN 6050/BUSN 6051	Supply Chain Management
BUSN 6070/BUSN 6071	Project Management and Consulting Methods

Note: A limited number of courses are available online. The online version of a course ends with a "1" such as BUSN 6011. Students may take a mixture of campus and online courses when completing their degree.

With full-time study, the MEEM can be completed in 12 months.

Transfer Credit

Students may receive transfer credit for MEEM courses if the degree committee determines they have equivalent graduate course work in the area from an acceptable institution. Students must receive a grade of B (GPA 3.00) or higher in the corresponding graduate course(s).

Graduation Requirements

Students who successfully complete each course or receive transfer credit will be awarded a MEEM, subject to the program residency requirement of 18 credits. Students must maintain an overall program GPA of 3.00 in order to graduate.

Students have five years from the date of admission to complete the MEEM. The degree committee will consider applications for a leave of absence to temporarily suspend this period.

Program Contacts

School of Business and Economics graduate program advising
Email eem@tru.ca | Phone 1-877-663-4087 | tru.ca/eem

Master of Science in Environmental Economics and Management

Program Overview

The Master of Science in Environmental Economics and Management (MScEEM) prepares graduates to make major contributions to the field of economic sustainable management. They acquire management skills, specialized knowledge in the emerging area of sustainability as well as important academic and applied research expertise through the completion of a graduate thesis or project. Completion of a thesis or project can serve as a stepping stone to a PhD program and an eventual career in academia and/or consulting

The MScEEM differs from TRU's Master of Environmental Economics and Management (MEEM) in that students complete a thesis or project, while MEEM students take additional advanced course work in management.

The MScEEM experience at TRU is divided into two parts: the Graduate Diploma in Business Administration (GDBA) and the MScEEM. The purpose of the GDBA is to ensure all students regardless of the educational background have the business knowledge and skill to successfully apply the economic sustainable management principles learned. Students must complete the six courses in the GDBA to be admitted to the MScEEM, but may receive a course waiver for some or all of the GDBA courses based on their previous academic record.

Applicants with an undergraduate in business from an acceptable institution may be admitted directly to the MScEEM program.

Admission Requirements

To be admitted to the Master of Science in Environmental Economics and Management (MScEEM), students must meet all of the following requirements:

1. Education Requirement– Applicants should have:

- An acceptable 3 or 4-year undergraduate degree in any discipline with a minimum B average (GPA of 3.00 on a scale of 4.33 or local equivalent) in the last 60 credits; and
- Successfully completed each course in the GDBA with a minimum overall GPA of 3.00 or receive a course waiver for some or all of the GDBA courses based on their previous academic record. Applicants with a 4 year business degree from an acceptable institution may be eligible to proceed directly to the MScEEM program.

2. Language Requirement– Applicants who did not complete their undergraduate degree at an English language university in a country where English is the primary language should have:

- A minimum TOEFL score of 587 with a TWE of 5.0 or higher (paper-based test), or minimum score of 94 with no section below 20 (IBT), **or**
- A minimum IELTS of at least 7.0 (with no band below 6.5), **or**
- Completion of TRU ENGL 1100 or 1101 and CMNS 1290 or 1291 with a minimum B.

3. Interview and References Requirement – Applicants should demonstrate the maturity, motivation, and communication skills to be successful in the program. This will be assessed by means of an interview, a personal written statement of purpose of study, and two letters of reference from academics or professionals.

4. Quantitative and Computing Skills Requirement– Applicants should possess adequate quantitative skills assessed through successful completion of specific undergraduate courses in quantitative subjects. Applicants should have adequate computing skills which include having a strong background in word processing, presentation and spreadsheet software.

Applicants who do not meet the education or language requirements or do not have adequate quantitative and computing skills will be asked to undertake approved developmental activities prior to the commencement of the program to upgrade their skills. Also, applicants with deficiencies in economics will be requested to take an additional undergraduate course in principles of microeconomics and obtain a minimum B.

Program Requirements

ECON 6010	Principles of Environmental Economics and Natural Resource Economics
ECON 6020	Applied Microeconomics for Sustainable Management
ECON 6030	Foundations of Cost-Benefit Analysis
ECON 6040	Valuation Methods for Cost-Benefit Analysis
ECON 6050	Sustainable Community Economic Development
ECON 6060	Applications of Environmental Economics and Natural Resource Economics
ECON 6070	Sustainable Macroeconomic Development
ECON 6080	Policy and Regulation for Sustainable Management
BUSN 6950/BUSN 6951	Research Methods, Preparation, and Presentation
BUSN 6960 BUSN 6970	Graduate Thesis **or** Graduate Project

Note: A limited number of courses are available online. The online version of a course ends with a "1" such as BUSN 6951. Students may take a mixture of campus and online courses when completing their degree.

With full-time study, the course work in the MScEEM can be completed in 12 months but the graduate thesis or project will likely extend graduation beyond this period.

Transfer credit

Students may receive transfer credit for MScEEM courses if the degree committee determines they have equivalent graduate course work in the area from an acceptable institution. Students must receive a grade of B (GPA 3.00) or higher in the corresponding graduate course(s).

Graduation Requirements

Students who successfully complete each course or receive transfer credit will be awarded an MScEEM, subject to the program residency requirement of 21 credits at TRU. Students must maintain an overall program GPA of 3.00 in order to graduate.

Students have five years from the date of admission to complete the MScEEM. The degree committee will consider applications for a leave of absence to temporarily suspend this period.

Program Contacts

School of Business and Economics graduate program advising
Email eem@tru.ca | Phone 1-877-663-4087 |Web tru.ca/eem

Bachelor of Business Administration

Program Overview

The Bachelor of Business Administration (BBA) is a four-year degree program. In Years 1 and 2, students receive a strong grounding in the humanities and social sciences as well as the core business or business related subjects.

In Years 3 and 4, students generally choose to acquire a specialization in one of the functional areas of business, including Accounting, Economics, Entrepreneurship, Finance, Human Resources, International Business, Marketing, or Supply Chain Management. Students who want more breadth in their business studies may choose the General BBA. Specializations take the form of majors consisting of eight or more courses.

Some of these majors prepare students to pursue a professional designation after graduation such as the Chartered Professional Accountant (CPA), Chartered Financial Analyst (CFA), Certified Human Resource Professional (CHRP), or Supply Chain Management Professional (SCMP) by providing the extensive course work needed to meet the core competencies established by the profession.

Students in third- and fourth-year also have the option of completing a minor consisting of four courses in a specific discipline or cross-disciplinary area. The purpose of a minor is to help students acquire knowledge to support their major area of study or give them breadth in their business education. Students who do not pursue a minor must take additional business or non-business electives to complete their degree.

Students must declare their major (and minor) by contacting School of Business and Economics advisors. The declaration can be made by sending an email with "Major Declaration" in the subject line to sobedadvisor@tru.ca. In the email include your name, student number, major(s), and minor. This should be done by or during third year.

Students receive high quality instruction from accomplished academics and practitioners. Case studies, class presentations, guest speakers, field trips, company reports, simulations, and business competitions are used extensively to enhance the student learning experience.

In Year 3 and 4, students can also go on an international exchange for a semester or two, attend a Field School, participate in service learning, pursue the Co-operative Education option and/or complete an Honours degree.

BBA graduates will have strong writing, presentation, critical thinking, and human relation skills; these are the cornerstones of future success.

Job prospects for BBA graduates are good and students have the potential to rise quickly in position and salary if they apply the skills acquired during their studies.

Learning Options

Study full-time or part-time on-campus
Distance education: Most courses are available through distance education
Program start date: September, January, May

Admission Requirements

To be admitted to the BBA, students must meet each of the following:

1. BC Grade 12 **or** mature student status
2. Foundations Math 12 **or** Pre-calculus Math 12 with minimum C+ or equivalent
3. English 12/English 12 First Peoples with a minimum of 73% **or** equivalent

Students may commence their studies while they upgrade their English and/or mathematics. Admission to the BBA occurs at first year, however, students may also transfer into the program at the second- or third- year levels.

Program Requirements

General Education Electives

Humanities Electives	
6 credits of humanities electives must be completed from the following:	
English	Chinese
French	German
Spanish	Japanese
Speech	Theatre
Music	Philosophy
Film	Communications
History	Visual and Performing Arts
Social Sciences Electives	
6 credits of social sciences electives must be completed from the following:	
Anthropology	Archeology
Canadian Studies	Economics
Geography	Political Studies
Psychology (excludes PSYC 2100)	Sociology (excludes SOCI 2710)

Core Courses

The following 72 credits (24 courses) are required:	
MNGT 1710	Introduction to Business
ENGL 1100 ENGL 1110 ENGL 1120 ENGL 1140 ENGL 1210	Introduction to University Writing **or** Critical Reading and Writing **or** Introduction to Poetry **or** Introduction to Drama **or** Introduction to Drama and Poetry
CMNS 1290	Introduction to Professional Writing
MATH 1070	Mathematics for Business and Economics
MATH 1170	Calculus for Business and Economics
ECON 1900	Principles of Microeconomics
ECON 1950	Principles of Macroeconomics
PHIL 1110	Introduction to Critical Thinking
ECON 2320	Economics and Business Statistics 1
ECON 2330	Economics and Business Statistics 2
ACCT 2210	Financial Accounting
ACCT 2250	Management Accounting
FNCE 2120	Financial Management
MKTG 2430	Introduction to Marketing
MIST 2610	Management Information Systems
ORGB 2810	Organizational Behaviour
HRMN 2820	Human Resource Management
BLAW 2910	Commercial Law
ECON 3040	Managerial Economics
CMNS 3240	Advanced Professional Communication
SCMN 3320	Supply Chain Management
IBUS 3510	International Business
MNGT 3710	Business Ethics and Society
MNGT 4780	Strategic Management

Bachelor of Business Administration Majors

Majors/General BBA

Accounting Major	
ACCT 3200	Intermediate Financial Accounting 1
ACCT 3210	Intermediate Financial Accounting 2
ACCT 3220	Income Taxation 1
ACCT 3230	Income Taxation 2
ACCT 3250	Intermediate Management Accounting
FNCE 4110	Advanced Financial Management for Accountants
ACCT 4200	Advanced Financial Accounting
ACCT 4230	Assurance
ACCT 4250	Advanced Management Accounting
MIST 4610	Strategic Management Information Systems

Economics Major
The Major in Economics requires 42 ECON credits of which 24 credits must be at the 3000 and 4000 level, with a minimum of six credits (two courses) at the 4000 level. ECON 2900 and ECON 2950 are both required and one of ECON 3900 or ECON 3950 is also required.

Entrepreneurship Major	
MKTG 3450	Professional Selling
ENTR 3710	Marketing for Entrepreneurs
ENTR 3720	Small Business Finance
MKTG 4412	New Product Development
ENTR 4750	New Venture Creation
ENTR 4760	Small Business Management
At least two of:	
ACCT 3260	Taxation for Decision Making
MKTG 3480	Marketing Research
HRMN 3830	Human Resource Planning and Staffing
MKTG 4450	E-Commerce

Finance Major	
FNCE 3150	Portfolio and Equity Analysis
FNCE 3170	Fixed Income and Alternative Investments
FNCE 3180	Derivative Securities
FNCE 4130	Advanced Financial Management
FNCE 4180	International Financial Management
At least three of:	

FNCE 3140	Financial Statement Analysis
ACCT 3260	Taxation for Decision Making
FNCE 4120	Business Valuation and Restructuring
FNCE 4140	Personal Financial Management
FNCE 4160	Advanced Portfolio Management
FNCE 4190	Financial Institutions Management
ECON 4330	Forecasting in Business and Economics

Human Resource Management Major	
ORGB 3810	Organizational Theory and Design
HRMN 3830	Human Resource Planning and Staffing
HRMN 3840	Employee and Labour Relations
BLAW 3920	Employment Law
HRMN 4830	Total Rewards
HRMN 4840	Organizational Learning, Training, and Development
ORGB 4870	Organizational Development and Change
HRMN 4890	Human Resource Strategy and Professional Practice

International Business Major	
IBUS 3530	International Trade Finance
MKTG 4470	International Marketing
IBUS 4510	Cross-Cultural Management
IBUS 4540	Global Entrepreneurship
IBUS 4560	Doing Business in Emerging Markets
IBUS 4570	Global Management
At least two of:	
ECON 3550	International Economics
MKTG 3450	Professional Selling
MKTG 3480	Marketing Research
IBUS 4590	International Business Field Study[1]
[1]Students who complete a Study Abroad semester may substitute another business elective for IBUS 4590.	

Marketing Major	
MKTG 3470	Consumer Behaviour
MKTG 3480	Marketing Research
MKTG 4460	Marketing Strategy
At least five of:	
MKTG 3450	Professional Selling
ECON 4330	Forecasting in Business and Economics
MKTG 4400	Professional Sales Management
MKTG 4410	Services Marketing
MKTG 4412	New Product Development
MKTG 4420	Brand Management
MKTG 4422	Social Media Marketing
MKTG 4430	Retail Management
MKTG 4450	E-Commerce
MKTG 4470	International Marketing
MKTG 4480	Integrated Marketing Communication
MKTG 4490	Business-to-Business Marketing

Supply Chain Management Major	
SCMN 3330	Procurement Management
MIST 3620	Web-enabled Business Applications
SCMN 4310	Operations Management
SCMN 4320	Logistics and Transportation
SCMN 4390	Selected Topics in Supply Chain Management
MKTG 4490	Business-to-Business Marketing
At least two of:	
MKTG 3450	Professional Selling
IBUS 3520	Global Management
ECON 4330	Forecasting in Business and Economics

General BBA
Students must complete at least 24 credits (normally 8 courses) of 3000 or 4000-level business or economics courses in addition to the core requirements in third- and fourth-year.
Note: Business courses include those beginning with the ACCT, BLAW, MIST, ENTR, FNCE, HRMN, IBUS, MKTG, MNGT, ORGB, SCMN, or BUSN acronyms.

Bachelor of Business Administration Minors

Accounting Minor	
ACCT 3200	Intermediate Financial Accounting 1
ACCT 3210	Intermediate Financial Accounting 2
At least two of:	
ACCT 3220	Income Taxation 1
ACCT 3230	Income Taxation 2
ACCT 3250	Intermediate Management Accounting
ACCT 4200	Advanced Financial Accounting
ACCT 4230	Assurance
ACCT 4250	Advanced Management Accounting
MIST 4610	Strategic Management Information Systems

Economics Minor
12 credits of 3000 or 4000 level economics courses, excluding ECON 3090.

Entrepreneurship Minor	
ENTR 3710	Marketing for Entrepreneurs
ENTR 3720	Small Business Finance
ENTR 4750	New Venture Creation
ENTR 4760	Small Business Management

Environmental Economics and Sustainable Development Minor	
At least four of:	
ECON 3410	Economics of Climate Change
ECON 3690	Community Economic Development
ECON 3700	Benefit-Cost Analysis and the Economics of Project Evaluation
ECON 3710	Environmental Economics
ECON 3730	Forestry Economics
ECON 3740	Land Use Economics
ECON 3990	Selected Topics in Economics
ECON 4720	Sustainable Economic Development
ECON 4990	Selected Topics in Economics
[1] ECON 3990 AND 4990 can only be used if special topics covered are related to the minor.	

Finance Minor	
FNCE 3150	Portfolio and Equity Analysis
At least three of:	
FNCE 3140	Financial Statement Analysis
FNCE 3170	Fixed Income and Alternative Investments
FNCE 3180	Derivative Securities
ACCT 3260	Taxation for Decision Making
FNCE 4120	Business Valuation and Restructuring
FNCE 4130	Advanced Financial Management
FNCE 4140	Personal Financial Management
FNCE 4160	Advanced Portfolio Management
FNCE 4180	International Financial Management
FNCE 4190	Financial Institutions Management
ECON 4330	Forecasting in Business and Economics

Financial Markets and Institutions Minor	
At least four of:	
ECON 3100	Canadian Financial Markets
ECON 3550	International Economics
ECON 4100	International Financial Markets
FNCE 4190	Financial Institutions Management
ECON 4560	International Macroeconomics and Finance

Financial Services Minor	
At least four of:	
FNCE 3190	Personal Financial Services
MKTG 3450	Professional Selling
FNCE 4140 or FNCE 4150	Personal Financial Management **or** Personal Wealth Management

MKTG 4400 or MKTG 4410	Professional Sales Management **or** Services Marketing

Human Resource Management Minor	
At least four of:	
ORGB 3810	Organizational Theory and Design
HRMN 3830	Human Resource Planning and Staffing
HRMN 3840	Employee and Labour Relations
BLAW 3920	Employment Law
HRMN 4830	Total Rewards
HRMN 4840	Organizational Learning, Training, and Development
ORGB 4870	Organizational Development and Change
HRMN 4890	Human Resource Strategy and Professional Practice

International Business Minor	
IBUS 3530	International Trade Finance
IBUS 4510	Cross-Cultural Management
IBUS 4570	Global Management
At least one of:	
MKTG 4470	International Marketing
IBUS 4540	Global Entrepreneurship
IBUS 4560	Doing Business in Emerging Markets

Leadership Minor	
MNGT 3730	Leadership
At least three of:	
ORGB 3750	Creativity and Innovation
ORGB 3770	Teamwork in Organizations
ORGB 3810	Organizational Theory and Design
ORGB 4870	Organizational Development and Change
MNGT 4710	Decision Analysis
MNGT 4720	Negotiation and Conflict Resolution

Marketing Minor	
At least four of:	
MKTG 3450	Professional Selling
MKTG 3470	Consumer Behaviour
MKTG 3480	Marketing Research
ECON 4330	Forecasting in Business and Economics
MKTG 4400	Professional Sales Management
MKTG 4410	Services Marketing
MKTG 4412	New Product Development
MKTG 4420	Brand Management
MKTG 4430	Retail Management
MKTG 4450	E-Commerce
MKTG 4460	Marketing Strategy
MKTG 4470	International Marketing
MKTG 4480	Integrated Marketing Communication
MKTG 4490	Business-to-Business Marketing

Project Management Minor	
MNGT 3730	Leadership
MNGT 4710 or MNGT 4720	Decision Analysis **or** Negotiation and Conflict Resolution
MNGT 4730	Business Project Management 1
MNGT 4740	Business Project Management 2

Supply Chain Management Minor	
SCMN 3330	Procurement Management
SCMN 4310	Operations Management
SCMN 4320	Logistics and Transportation
SCMN 4390	Selected Topics in Supply Chain Management

Honours Degree Option

The Honours Degree option offers students the opportunity to gain recognition for their superior academic performance and is an excellent choice for those wanting to go on to graduate school. An Honours degree is composed of additional course and/or research therefore BBA (H) requires the completion of a minimum 132 credits.

To earn this distinction, students must maintain a minimum GPA of 3.00 (B) in third- and fourth-year while either (1) completing additional upper-level courses or (2) writing a thesis. No upper-level grade can fall below B- (GPA 2.67), although students can re-take courses once to meet the necessary grade requirement. To be admitted, students must have a minimum GPA of 3.00 in years one and two. Students interested in Honours as an option should meet with a SOBE academic advisor early in the planning.

Course Route students must take four additional third- and fourth- year courses in business or economics or an approved related area of which two must be at the fourth-year level.
Those interested in the Thesis Route must take the following three courses as part of their BBA studies:

- BUSN 3980-3 - Business Research Methodology
- BUSN 4960-3 - Directed Studies **or** ECON 4960 - Directed Studies
- BUSN 4980-6 - Honours Thesis

Business Research Methodology is taken in Year 3 and provides students with the knowledge and skills necessary to conduct academic research in one of the disciplines. Students learn how to conduct literature reviews and prepare research proposals, and study the statistical methods used in preparing an Honours Thesis. In Year 3 or Year 4, students take a Directed Studies course in the area of their proposed thesis.

The Honours thesis is taken in Year 4 where students, under the direction of a thesis supervisor, prepares a research paper. The course has no formal class schedule; instead students confer regularly with their supervisor who provides advice on the direction of the research project.
In addition to researching and writing the thesis, students must formally present their thesis to the academic community. This will not only include their fellow classmates, but accomplished academics in the area.

Service Learning

Service learning provides an opportunity for senior-level students to share their knowledge and skills with the local community through approved community-based projects. Service learning projects can be initiated by students, by community groups, or by faculty. To qualify for service learning credit, a faculty member must first authorize the course and then agree to supervise and then evaluate the project. Students may receive service learning credit by working individually or in cohorts on the same community project. Normally, students meet with the faculty supervisor for initial consultation and/or training during the first week of classes; after the initial meeting, students are expected to keep the faculty supervisor informed about the project on a regular basis.

At the end of the course, students will present the faculty supervisor with an evaluation form completed by the community group served and some combination of the following: a research paper, report, or document; a student journal or activity log; a presentation,

performance, or exhibition. BBA students may take up to six upper-level credits of service learning (SERV 3000, SERV 4000).

Co-operative Education Option

Co-operative Education is voluntary but is highly recommended as it provides students with the opportunity to combine academic studies with paid, career-related work experience. This will help them build a greater appreciation of the curriculum being studied; develop practical business skills; enhance their communication and critical thinking skills and self-confidence; develop a career focus and important job search skills; and establish employment and business contacts for after graduation.

Job placements are competitive so students are not guaranteed a position in any given work term. Many Co-op employers are located outside the Kamloops region so students may have to temporarily relocate for four, eight, or 12 months. Co-op time patterns vary depending on student priorities and market conditions, however students are expected to complete multiple work terms in more than one season of the year. Consult the Co-op Department for details.

Applications for Co-op are accepted after students successfully complete specified 1000 and 2000-level core courses in the BBA. Students will be assessed based on academic performance (minimum GPA of 2.67), performance in the specific core courses and a letter of application. Preference will be given to students with strong oral and written communication skills. Successful students must complete a Co-op Seminar (COOP 1000) in order to be eligible for a work term.

Students must complete three Co-op work terms to graduate with a Co-op designation. Students earn three upper-level credits for each completed work term up to a maximum of nine credits.

Dual Degrees

Computing and Business

Dual degrees in Computing and Business provide graduates with a strong foundation from which to build a successful career in the information technology industry. Bachelor of Computing Science and BBA graduates will possess the combined management skills and computing “know how” needed to be successful in an increasingly high-tech business environment.

Arts and Business

Dual degrees in Arts and Business provide graduates with a strong platform for a successful career. Employers seek well-rounded candidates with specific skills and knowledge, such as accounting and management, as well as competencies in communications skills, intercultural knowledge, broad-based knowledge, and research skills.

To earn a dual degree, students must meet the requirements of both programs. Many core and elective courses can be “double counted,” which means they can be used for credit in both programs and greatly reduce study time. **Through careful course selection, it is possible to complete the two degrees in just five years**. Dual degrees may be completed concurrently or sequentially.

Course Requirements

1. No BBA credit will be given for ECON 1220 if it is taken after completion of either ECON 1900 (or equivalent) or ECON 1950 (or equivalent).

2. No BBA credit will be given for MATH 1100 if it is taken after completion of MATH 1070 (or equivalent). No credit will be given for MATH 1000 if it is taken after completion of MATH 1170 (or equivalent).

3. Normally, students are only allowed to attempt a single course three times. The third attempt much be approved in writing by the chairperson of the department offering the course. The highest grade achieved in duplicated courses will be used for CGPA calculations, but the student's record will show all attempts.

4. Transfer credit will be determined on a course-by-course basis. Generally, a course must be 80% equivalent to receive direct transfer credit. Transfer credit will be assigned in accordance with the BC Transfer Guide, the TRU Credit Bank, a formal articulation agreement between the two institutions, or a specific course evaluation based on a course outline provided by the educational institution. Students with **international education** must provide translated official transcripts and translated detailed course outlines for each course for which they are applying for transfer credit. Students must have a grade of C- or higher to receive transfer credit. University preparation credits will not be accepted for transfer, but may be used to meet pre-requisite and/or admission requirements. Transferred courses are awarded credit only and are not calculated in the CGPA.

5. Prior Learning Assessment (PLAR) is assessment by some valid and reliable means of what has been learned through formal and non-formal education, training or experience that is worthy of credit in a course or program offered by TRU. PLAR is used to evaluate knowledge, skills and competencies which have been acquired through, but not limited to, work experience, independent reading, hobbies, volunteer work, non-formal learning, travel and artistic pursuits. PLAR can be awarded using an individual assessment or the TRU Credit Bank.

The University maintains a credit bank containing course equivalencies for courses or programs such as professional licences, designations, or certificates completed outside of the college or university system. These non-formal courses and programs have been previously evaluated by qualified tenured/tenure track faculty members from the academic department responsible for the course and the credits to be awarded are predetermined.
Students should contact a Program Advisor if they feel they are eligible for credit from the credit bank or have taken other courses or programs that they believe should be included.

For individual assessment for business and economics credit, applicants will be evaluated by portfolio and/or a challenge exam that is assessed by a qualified tenured/tenure track faculty member from the academic department responsible for the course – if a challenge exam is written, a grade of C or higher is required to receive credit.

PLAR credit does not count towards the residency requirement of the BBA and is awarded credit only and not included in a student's CGPA. PLAR credit awarded by other Canadian accredited post-secondary institutions that have formally adopted the assessment standards of the Council for Adult and Experiential Learning and/or the BC Council on Admissions and Transfer (BCCAT) prior learning standards and guidelines will also be recognized.

Students should contact a Program Advisor if they feel they are eligible for PLAR credit.

Generally, students can receive credit for no more than 30 credits of the BBA requirements by PLAR.

Degree Completion Requirements

1. Complete at least 120 credits with a minimum of 60 credits as TRU credit. Students must also complete a minimum of 36 business credits as defined by AACSB as TRU credit. More than 120 credits may have to be taken to meet these requirements.

2. Complete the general education requirements, core courses, and a major or General BBA.

3. Complete a minimum of 45 credits in non-business courses, 51 upper-level credits, and 39 upper-level credits in business or economics. Business courses include those beginning with the ACCT, BLAW, MIST, ENTR, ECON, FNCE, HRMN, IBUS, MKTG, MNGT, ORGB, SCMN, or BUSN acronyms.

4. Complete at least four 4000-level business or economics courses including MNGT 4780.

5. A maximum of 30 credits completed at other university-level institutions as part of a student exchange may be counted toward completion of the BBA program. Students must have their courses approved by a Program Advisor before participating in an exchange.

6. If completing a major and a minor, students can only share credit for one course. When completing a double major, students may share credit for two courses only.

7. No more than nine credits of a combination of upper-level Service Learning or Co-operative Education may be counted towards the BBA requirements. A minimum CGPA of 2.67 is required for admission to Co-operative Education or Service Learning courses

8. Complete at least three credits of distance delivery business or economics courses.

9. Attain an overall CGPA of at least 2.0, and grades of C- or better in all core courses, major/minor courses, General BBA courses or prerequisites courses. Students must earn a minimum of C+ in prerequisites for some upper-level accounting and finance courses.

10. Students must apply for graduation and attendance at convocation by completing and submitting their Application to Graduate through myTRU. The deadline for submitting an application to graduate and attend convocation is below.

	Application to graduate Deadline	Course completion (includes TRU-OL)
June ceremony	March 31	April 30
October ceremony	July 31	August 31

Laddering

BBA graduates who attain a minimum GPA of 3.00 in the last 60 credits may receive a course waiver for up to six courses in the Graduate Diploma in Business Administration and apply directly to the Master of Business Administration. Students must receive a grade of B or higher in the equivalent undergraduate courses to receive a course waiver.

Program Contact

School of Business and Economics Student Services IB 2074
Email sobeadvisor@tru.ca | Phone 250-852-7635 | tru.ca/business

Post-Baccalaureate Diplomas in Business

Program Overview

A post-baccalaureate diploma (PB) in business will be of interest to students who have a non-business degree, and who want to return to university for one or two years to acquire a specialty in a functional area of business in order to enhance their employment opportunities. Students with a first degree in business, but who want to change their area of focus may also want to complete a post-baccalaureate diploma as well.

Students cannot be admitted to a post-baccalaureate diploma in the same discipline as their undergraduate degree.

Post-baccalaureate diplomas are also valuable to international students who wish to come to Canada to learn English, gain exposure to the culture, and study in a compressed format.

PB diplomas are a great foundation for students who want to pursue a professional designation such as the Chartered Professional Accountant (CPA), Chartered Financial Analyst (CFA), Certified Human Resource Professional (CHRP), or Supply Chain Management Professional (SCMP) after graduation.

Learning Options

Full-time or part-time on-campus
Distance: Most courses are available through distance education. Students may take a mixture of on-campus and online courses.
Program start date: September and January

Admission Requirements

Admission requirements are the same for each of the post-baccalaureate diplomas. Prior to admission applicants must have completed:

1. Bachelor Degree from an accredited institution.
2. Students are expected to have taken Foundations of Math 12 or Pre-calculus 12 (or equivalent). Those who have not done so can still be admitted to the program, but they must complete equivalent courses as approved by a Program Advisor.
3. At least six credits of university English. Applicants who have not completed at least six credits of university English and/or Communications (at an English language University in an English-speaking country) prior to admission must provide TOEFL or IELTS or other acceptable English Placement test results (must be current within two years) or take TRU English Placement test upon arrival. **TOEFL/IELTS and other English language placement tools do not take the place of completion of the required six credits of ENGL/CMNS. Students deficient in the ENGL/CMNS must complete these courses as soon as possible upon admission.**

   Program Advisors will incorporate required English and/or Communications courses within the first two terms of study at TRU.

Program Requirements

Post-Baccalaureate Diploma in Accounting	
MATH 1070 MATH 1100	Mathematics for Business and Economics **or** Finite Mathematics with Applications 1
ECON 1900	Principles of Microeconomics
ECON 1950	Principles of Macroeconomics
FNCE 2120	Financial Management
ACCT 2210	Financial Accounting
ACCT 2250	Management Accounting
ECON 2320 STAT 1200 STAT 2000	Economics and Business Statistics 1 **or** Introduction to Statistics **or** Introduction to Statistics
ECON 2330 STAT 2410	Economics and Business Statistics 2 **or** Applied Statistics
MIST 2610	Management Information Systems
BLAW 2910	Commercial Law
ACCT 3200	Intermediate Financial Accounting 1
ACCT 3210	Intermediate Financial Accounting 2
ACCT 3220	Income Taxation 1
ACCT 3230	Income Taxation 2
ACCT 3250	Intermediate Management Accounting
FNCE 4110	Advanced Financial Management for Accountants
ACCT 4200	Advanced Financial Accounting
ACCT 4230	Assurance
ACCT 4250	Advanced Management Accounting
MIST 4610	Strategic Management Information Systems

Post-Baccalaureate Diploma in Business Administration	
MATH 1070 MATH 1100	Mathematics for Business and Economics **or** Finite Mathematics with Applications 1
MNGT 1710	Introduction to Business
ECON 1900	Principles of Microeconomics
ECON 1950	Principles of Macroeconomics
FNCE 2120	Financial Management
ACCT 2210	Financial Accounting
ACCT 2250	Management Accounting
ECON 2320 STAT 1200 STATS 2000	Economics and Business Statistics 1 **or** Introduction to Statistics **or** Introduction to Statistics
ECON 2330 STATS 2410	Economics and Business Statistics 2 **or** Applied Statistics
MKTG 2430	Introduction to Marketing
MIST 2610	Management Information Systems
ORGB 2810	Organizational Behaviour
HRMN 2820	Human Resource Management
BLAW 2910	Commercial Law
SCMN 3320	Supply Chain Management
IBUS 3510	International Business
MNGT 3710	Business Ethics and Society
MNGT 4780	Strategic Management
One additional 3000/4000 business course	
One additional 3000/4000 business course	

Note: Business courses include those beginning with the ACCT, BLAW, MIST, ENTR, ECON, FNCE, HRMN, IBUS, MKTG, MNGT, ORGB, SCMN, or BUSN acronyms.

Post-Baccalaureate Diploma in Economics	
Required courses (8 courses)	
MATH 1070 or MATH 1100	Mathematics for Business and Economics Finite Mathematics with Applications 1
MATH 1170 or MATH 1130 or MATH 1140 or MATH 1150	Calculus for Business & Economics Calculus 1 for Engineering Calculus 1 Calculus for the Biological Sciences 1
ECON 1900	Principles of Microeconomics
ECON 1950	Principles of Macroeconomics
ECON 2900	Intermediate Microeconomics 1
ECON 2950	Intermediate Macroeconomics 1
STAT 1200 or ECON 2320 or STAT 2000	Introduction to Statistics Economic and Business Statistics 1 Introduction to Statistics
ECON 2330 or STAT 2410	Economics and Business Statistics 2 Applied Statistics
Elective courses (12 courses)	
At least 12 from the following:	
ECON 3100	Canadian Financial Markets
ECON 3200	Introduction to Mathematical Economics
ECON 3410	Economics of Climate Change
ECON 3500	Public Finance
ECON 3550	International Economics
ECON 3600	Labour Economics
ECON 3610	The Economics of Gender
ECON 3650	Government and Business
ECON 3670	Economic Analysis of Law
ECON 3700	Benefit-Cost Analysis and the Economics of Project Evaluation
ECON 3710	Environmental Economics
ECON 3730	Forestry Economics
ECON 3740	Land use Economics
ECON 3840	Economic Analysis of Health
ECON 3900	Intermediate Micrcoeconomics 2
ECON 3950	Intermediate Macrcoeconomics 2
ECON 3990	Selected Topics in Economics
ECON 4100	International Financial Markets
ECON 4320	Econometrics
ECON 4330	Forecasting in Business and Economics
ECON 4560	International Macroeconomics and Finance
ECON 4660	Industrial Organization
ECON 4720	Sustainable Economic Development
ECON 4960	Directed Studies in Economics
ECON 4990	Selected Topics in Economics

Post-Baccalaureate Diploma in Entrepreneurship	
MATH 1070 MATH 1100	Mathematics for Business and Economics **or** Finite Mathematics with Applications 1
ECON 2320 STAT 1200 STAT 2000	Economic and Business Statistics 1 **or** Introduction to Statistics **or** Introduction to Statistics
FNCE 2120	Financial Management
ACCT 2210	Financial Accounting
ACCT 2250	Management Accounting

ECON 2330 STAT 2410	Economic and Business Statistics 2 **or** Applied Statistics
MKTG 2430	Introduction to Marketing
MIST 2610	Management Information Systems
HRMN 2820	Human Resource Management
ORGB 2810	Organizational Behavior
BLAW 2910	Commercial Law
SCMN 3220	Supply Chain Management
MKTG 3450	Professional Selling
ENTR 3710	Marketing for Entrepreneurs
ENTR 3720	Small Business Finance
MKTG 4412	New Product Development
ENTR 4750	New Venture Creation
ENTR 4760	Small Business Management
At least two of:	
ACCT 3260	Taxation for Decision Making
HRMN 3830	Human Resource Planning and Staffing
MKTG 3480	Marketing Research
MKTG 4450	E-Commerce

Post-Baccalaureate Diploma in Finance	
MATH 1070 MATH 1100	Mathematics for Business and Economics **or** Finite Mathematics with Applications 1
MATH 1170 MATH 1130 MATH 1140 MATH 1150	Calculus for Business and Economics **or** Calculus 1 for Engineering **or** Calculus 1 **or** Calculus for Biological Sciences
ECON 1900	Principles of Microeconomics
ECON 1950	Principles of Macroeconomics
FNCE 2120	Financial Management
ACCT 2210	Financial Accounting
ACCT 2250	Management Accounting
ECON 2320 STAT 1200 STAT 2000	Economics and Business Statistics 1 **or** Introduction to Statistics **or** Introduction to Statistics
ECON 2330 STAT 2410	Economics and Business Statistics 2 **or** Applied Statistics
MIST 2610	Management Information Systems
FNCE 3150	Portfolio and Equity Analysis
FNCE 3170	Fixed Income and Alternative Investments
FNCE 3180	Derivative Securities
FNCE 4130	Advanced Financial Management
FNCE 4180	International Financial Management
At least five of:	
BLAW 2910	Commercial Law
FNCE 3140	Financial Statement Analysis
ACCT 3260	Taxation for Decision Making
FNCE 4120	Business Valuation and Restructuring
FNCE 4140	Personal Financial Management
FNCE 4160	Advanced Portfolio Management
FNCE 4190	Financial Institutions Management
ECON 4330	Forecasting in Business and Economics

Post-Baccalaureate Diploma in Human Resource Management	
MNGT 1710	Introduction to Business
ACCT 2210	Financial Accounting
ACCT 2250	Management Accounting
MIST 2610	Management Information Systems
ORGB 2810	Organizational Behaviour
HRMN 2820	Human Resource Management
BLAW 2910	Commercial Law
MNGT 3710	Business Ethics and Society
MNGT 3730	Leadership
ORGB 3750	Creativity and Innovation
ORGB 3770	Teamwork in Organizations
ORGB 3810	Organizational Theory and Design
HRMN 3830	Human Resource Planning and Staffing
HRMN 3840	Employee and Labour Relations
MNGT 4720	Negotiation and Conflict Resolution
BLAW 3920	Employment Law
HRMN 4830	Total Rewards
HRMN 4840	Organizational Learning, Training and Development
ORGB 4870	Organizational Development and Change
HRMN 4890	Human Resource Strategy and Professional Practice

Post-Baccalaureate Diploma in International Business	
ECON 1900	Principles of Microeconomics
ECON 1950	Principles of Macroeconomics
FNCE 2120	Financial Management
ACCT 2210	Financial Accounting
ACCT 2250	Management Accounting
ECON 2320 STAT 1200 STAT 2000	Economic and Business Statistics 1 **or** Introduction to Statistics **or** Introduction to Statistics
ECON 2330 STAT 2410	Economic and Business Statistics 2 **or** Applied Statistics
MKTG 2430	Introduction to Marketing
MIST 2610	Management Information Systems
SCMN 3320	Supply Chain Management
IBUS 3510	International Business
IBUS 3530	International Trade Finance
MNGT 3710	Business Ethics and Society
MKTG 4470	International Marketing
IBUS 4510	Cross Cultural Management
IBUS 4540	Global Entrepreneurship
IBUS 4560	Doing Business in Emerging Markets
IBUS 4570	Global Management
At least two of:	
ECON 3550	International Economics
MKTG 3450	Professional Selling
MKTG 3480	Marketing Research
IBUS 4590	International Business Field Study

Post-Baccalaureate Diploma in Marketing	
ACCT 2210	Financial Accounting
ACCT 2250	Management Accounting
ECON 2320 STAT 1200 STAT 2000	Economics and Business Statistics 1 **or** Introduction to Statistics **or** Introduction to Statistics
ECON 2330 STAT 2410	Economics and Business Statistics 2 **or** Applied Statistics
MKTG 2430	Introduction to Marketing
MIST 2610	Management Information Systems
ORGB 2810	Organizational Behaviour
SCMN 3320	Supply Chain Management
MKTG 3470	Consumer Behaviour
MKTG 3480	Marketing Research
IBUS 3510	International Business
MNGT 3710	Business Ethics and Society
MKTG 4460	Marketing Strategy
At least seven of:	
MKTG 3450	Professional Selling
ECON 4330	Forecasting in Business and Economics
MKTG 4400	Professional Sales Management
MKTG 4410	Services Marking
MKTG 4412	New Product Development
MKTG 4420	Brand Management
MKTG 4422	Social Media Marketing
MKTG 4430	Retail Management
MKTG 4450	E-Commerce
MKTG 4470	International Marketing
MKTG 4480	Integrated Marketing Communication
MKTG 4490	Business-to-Business Marketing

Post-Baccalaureate Diploma in Mathematics and Economics	
Core courses	
MATH 1130 or MATH 1140	Calculus 1 for Engineering Calculus 1

MATH 1230 or MATH 1240	Calculus 2 for Engineering Calculus 2
MATH 1700 or MATH 2240	Discrete Mathematics 1 or Differential Equations
ECON 1900	Principles of Microeconomics
ECON 1950	Principles of Macroeconomics
STAT 2000 or ECON 2320	Introduction to Statistics or Economic and Business Statistics
MATH 2110	Calculus 3
MATH 2120	Linear Algebra
ECON 2900	Intermediate Microeconomics 1
ECON 2950	Intermediate Macroeconomics 1
ECON 4320	Econometrics
ECON 4330	Forecasting in Business and Economics
An additional three upper level ECON courses which must include ECON 3900 and/or ECON 3950	
Choose from one of the following elective streams, each composed of five courses.	
Elective courses – Mathematics stream	
STAT 3060	Applied Regression Analysis
MATH 3160	Differential Equations 2
MATH 3400	Intro to Linear Programming
MATH 4410	Modelling of Discrete Optimization Problems
Plus one upper level MATH elective	
Elective courses – General stream	
STAT 3060	Applied Regression Analysis
Four of the following:	
MATH 3020	Introduction to Probability
MATH 3030	Introduction to Stochastic Processes
STAT 3050	Introduction to Statistical Inference
MATH 3160	Differential Equations 2
MATH 3400	Intro to Linear Programming
STAT 4040	Analysis of Variance
MATH 4410	Modelling of Discrete Optimization Problems
Plus any upper level MATH/STAT elective	
Elective courses – Statistics stream	
MATH 3020	Introduction to Probability
STAT 3060	Applied Regression Anaylsis
Choose three of the following courses:	
MATH 3030	Introduction to Stochastic Processes
Any upper level STAT elective	
Students who choose not to take MATH 3030, must take 9 credits of STAT electives.	

Post-Baccalaureate Diploma in Supply Chain Management	
MATH 1070 MATH 1100	Mathematics for Business and Economics **or** Finite Mathematics with Applications 1
MATH 1170 MATH 1130	Calculus for Business and Economics **or** Calculus 1 for Engineering **or** Calculus 1 **or**
MATH 1140 MATH 1150	Calculus for Biological Sciences
ECON 2320 STAT 1200 STAT 2000	Economics and Business Statistics 1 **or** Introduction to Statistics **or** Introduction to Statistics
ECON 2330 STAT 2410	Economics and Business Statistics 2 **or** Applied Statistics
FNCE 2120	Financial Management
ACCT 2210	Financial Accounting
ACCT 2250	Management Accounting
MKTG 2430	Introduction to Marketing
MIST 2610	Management Information Systems
BLAW 2910	Commercial Law
SCMN 3320	Supply Chain Management
SCMN 3330	Procurement Management
IBUS 3510	International Business
MIST 3620	Web-enabled Business Applications
SCMN 4310	Operations Management
SCMN 4320	Logistics and Transportation
SCMN 4390	Selected Topics in Supply Chain Management
MKTG 4490	Business-to-Business Marketing
At least two of:	
MKTG 3450	Professional Selling
ECON 4330	Forecasting in Business and Economics
IBUS 4570	Global Management

Students must achieve a grade of C- or better in all courses to graduate. A course can be repeated just once and only two courses can be repeated. Students must complete a minimum of ten courses at TRU after transfer credit to receive a post-baccalaureate diploma. Students must apply for graduation and attendance at convocation by completing and submitting their application through myTRU.

Application to graduate and to attend Convocation deadline		
	Application to graduate deadline	Course completion (includes TRU-OL)
June ceremony	March 31	April 30
October ceremony	July 31	August 31

Laddering

Post-baccalaureate students may receive a course waiver for up to six courses in the Graduate Diploma in Business Administration, which must be successfully completed before applying to the MBA. Students must receive a grade of B or higher in the equivalent undergraduate courses to receive a course waiver.

Program Contact

School of Business and Economics Student Services IB 2074
Email sobeadvisor@tru.ca | Phone 250-852-7635 | tru.ca/business

Minor in Management

Program Overview

Most professionals outside of business require a strong foundation in the principles of management to be effective on the job. The Bachelor of Arts (BA), Bachelor of Computer Science (BCS), and Bachelor of Science (BSc) degrees at TRU each have a Minor in Management offered by the School of Business and Economics, which provides students the opportunity to acquire these needed skills.

The program is highly flexible, allowing students to fit management classes into their crowded schedules of lectures and labs. Courses taken in, computing, mathematics, and statistics in the BA, BCS, or the BSc can also be used for credit, helping to reduce the length of the program.

Learning Options

Full-time or part-time on-campus
Distance: All courses are available through distance education
Program start date: September, January, May

Admission Requirements

Admission to the BSc, BCS, or BA

Program Requirements

MATH 1070 or MATH 1100 MATH 1140 MATH 1380	Mathematics for Business and Economics 2 **or** Finite Mathematics with Applications 1 **or** Calculus 1 **or** Discrete Structures 1 for Computing Science
STAT 1200 STAT 2000 PSYC 2100 ECON 2320 SOCI 2710 BIOL 3000	Introduction to Statistics **or** Introduction to Statistics **or** Analysis of Psychological Data **or** Economics and Business Statistics 1 **or** Introduction to Social Statistics Biometrics
ACCT 2210	Financial Accounting
MIST 2610 COMP 1020	Management Information Systems **or** Introduction to Spreadsheets plus 2 additional credits in Computer Science
ORGB 2810	Organizational Behaviour
FNCE 3120	Finance
MKTG 3430	Marketing
HRMN 3820	Human Resources
One additional 3000/4000 business course	
One additional 3000/4000 business course	
One additional 3000/4000 business course	

Note: Business courses include those beginning with the ACCT, BLAW, MIST, ENTR, FNCE, HRMN, IBUS, MKTG, MNGT, ORGB, SCMN, or BUSN acronyms.

Laddering

Minor in Management graduates can ladder into one of the post-baccalaureate diplomas in business after graduation and complete the requirements in as little as one year. The transfer credit awarded depends on the requirements of the specific post-baccalaureate diploma.

Post-baccalaureate students may also receive a course waiver for up to six courses in the Graduate Diploma in Business Administration which must be successfully completed before entering the MBA. Students must receive a grade of B or higher in the equivalent undergraduate courses to receive a course waiver.

Management Diploma

Program Overview

The Management Diploma is a two-year program that helps graduates develop key employment skills in areas such as, oral and written communications, problem solving, accounting, marketing, human relations, economics, law, information systems, and business ethics and readies them for entry-level general administration and sales positions in both the private and public sectors.

Students who complete the first year of the program can exit with a Business Foundations Certificate. This qualifies graduates for some entry-level positions, but students are encouraged to continue their education part-time or online if possible.

Learning Options

Part-time – Yes | **On-campus** - Yes
Distance – All courses are available through distance education
Program start date – September, January, May

Admission Requirements

Students must meet each of the following to be admitted to the Management Diploma:

1. BC Grade 12 or mature student status or equivalent
2. Foundations Math 12 **or** Pre-calculus Math 12 with a minimum C+ **or** equivalent
3. English 12/English 12 First Peoples with a minimum of 73% **or** equivalent

Students may commence their studies while they upgrade their English and Mathematics.

Program Requirements

First Year	
Fall semester	
MATH 1070 MATH 1100	Mathematics for Business and Economics **or** Finite Mathematics with Applications 1
ENGL 1100 ECON 1220 ECON 1900	Introduction to University Writing Introduction to Basic Economics **or** Principles of Microeconomics
MNGT 1710	Introduction to Business
ACCT 2210	Financial Accounting
Winter semester	
CMNS 1290	Introduction to Professional Writing
ECON 1900 ECON 1950	Principles of Microeconomics **or** Principles of Macroeconomics
ACCT 2280	Accounting Software Systems
MIST 2610	Management Information Systems
ORGB 2810	Organizational Behaviour

Second Year	
Fall semester	
ACCT 2250	Management Accounting
ECON 2320 STAT 1200	Economics and Business Statistics 1 **or** Introduction to Statistics
MKTG 2430	Introduction to Marketing
HRMN 2820	Human Resource Management
BLAW 2910	Commercial Law
Winter semester	
MKTG 3450	Professional Selling
IBUS 3510	International Business
MNGT 3710	Business Ethics and Society
ORGB 3770	Teamwork in Organizations
One of:	
FNCE 2120	Financial Management
MKTG 3470	Consumer Behaviour
HRMN 3830	Human Resource Planning and Staffing
HRMN 3840	Employee and Labour Relations
HRMN 3920	Employment Law

Students must achieve a grade of C- or better in all courses to graduate. Those who plan on pursuing the Bachelor of Business Administration are recommended to take MATH 1070, ECON 1900, ECON 1950, and ECON 2320.

Students must apply for graduation and attendance at convocation by completing and submitting their application through myTRU.

Deadline for submitting an application to graduate and to attend the convocation ceremony:

	Application to graduate Deadline	Course completion (includes TRU-OL)
June ceremony	March 31	April 30
October ceremony	July 31	August 31

Laddering

Graduates of the Management Diploma may ladder into the Bachelor of Business Administration (on-campus) or the Bachelor of Commerce (online) with no loss of credit and complete the degrees in as little as two years on a full-time basis.

Program Contact

School of Business and Economics Student Services IB 2074
Email sobeadvisor@tru.ca | Phone 250-852-7635 |tru.ca/business

Accounting Technician Diploma

Program Overview

The Accounting Technician Diploma is a two-year program designed to prepare graduates for positions as para-professionals that serve alongside professional accountants in industry, public practice, and government doing much of the support work.

Graduates find employment with public accounting firms working on files and basic tax returns; as payroll, accounts receivable, accounts payable, or general accounting clerks in larger organizations; or as bookkeepers with smaller businesses.

Students who wish to continue their education may choose to pursue a business degree either on-campus or online and possibly earn a professional accounting designation such as the Chartered Professional Accountant (CPA).

Students who complete just the first year of the program can exit with a Business Foundations Certificate. This qualifies graduates for some entry-level accounting or administrative positions but further education is recommended. A student could return in future or continue their studies online.

Learning Options

Full-time and Part-time study on-campus is available.
Distance – All courses are available through distance education
Program start date - September, January, May

Admission Requirements

Students must meet each of the following to be admitted to the Accounting Technician Diploma:

1. BC Grade 12 or mature student status
2. Foundations Math 12 or Pre-calculus Math 12 with a minimum C+ **or** equivalent
3. English 12/English 12 First Peoples with a minimum of 73% or equivalent

Students may commence their studies while they upgrade their English and Mathematics.

Program Requirements

First Year	
Fall semester	
MATH 1070 MATH 1100	Mathematics for Business and Economics **or** Finite Mathematics with Applications 1
ENGL 1100	Introduction to University Writing
ECON 1220 ECON 1900	Introduction to Basic Economics **or** Principles of Microeconomics
MNGT 1710	Introduction to Business
ACCT 2210	Financial Accounting
Winter semester	
CMNS 1290	Introduction to Professional Writing
ECON 1900 ECON 1950	Principles of Microeconomics **or** Principles of Macroeconomics
ACCT 2280	Accounting Software Systems
MIST 2610	Management Information Systems
ORGB 2810	Organizational Behaviour
Second Year	
Fall semester	
ACCT 2250	Management Accounting
ECON 2320 STAT 1200	Economics and Business Statistics 1 **or** Introduction to Statistics
MKTG 2430 HRMN 2820	Introduction to Marketing **or** Human Resource Management
ACCT 3200	Intermediate Financial Accounting 1
ACCT 3220	Income Taxation 1
Winter semester	
FNCE 2120	Financial Management
BLAW 2910	Commercial Law
ACCT 3210	Intermediate Financial Accounting 2
ACCT 3230	Income Taxation 2
ACCT 3250	Intermediate Management Accounting

Students must achieve a grade of C- or better in all courses to graduate. Those who plan on pursuing the Bachelor of Business Administration are recommended to take MATH 1070, ECON 1900, ECON 1950, and ECON 2320.

Students must apply for graduation and attendance at Convocation by completing and submitting their application through myTRU.

Laddering

Graduates of the Accounting Technician Diploma may ladder into the Bachelor of Business Administration degree (on-campus) or the

Bachelor of Commerce (online) with no loss of credit and complete the degrees in as little as two years on a full-time basis.

Program Contact

School of Business and Economics Student Services IB 2074
Email sobeadvisor@tru.ca | Phone 250-852-7635 | tru.ca/business

Associate of Commerce and Business Administration Diploma

Program Overview

Associate Diplomas recognize the achievements of students who have completed two years of academic work. They are of particular value to students who want to save money by completing the lower-level requirements of a business degree in their local community before transferring to another university such as Simon Fraser University or University of British Columbia for third- and fourth-year.

Associate diplomas are also intended to recognize the accomplishments of student who for financial, family, work or academic reasons are not able to complete a full four-year business degree. . Students can return at a future date to third year and/or continue their studies online.

Learning Options

Part-time – Yes | **On-campus** - Yes
Distance – All courses are available through distance education
Program start date – September, January, May

Admission Requirements

1. BC Grade 12 or mature student status
2. Foundations Math 12 **or** Pre-calculus 12 with a minimum C+ **or** equivalent
3. English 12/English 12 First Peoples with a minimum of 73% **or** equivalent

Students may commence their studies while they upgrade their English and Mathematics.

Program Requirements

The Associate of Commerce and Business Administration Diploma is awarded to students who have completed the lower-level requirements of the Bachelor of Business Administration degree. Students may substitute general education electives for; MATH 1170-Calculus; for Business and Economics and for ECON 2330-Economics and Business Statistics 2.

Students must apply for graduation and attendance at convocation by completing and submitting their application through myTRU.

The deadline for submitting an application to graduate and attend convocation is:

	Application to graduate Deadline	Course completion (includes TRU-OL)
June ceremony	March 31	April 30
October ceremony	July 31	August 31

Laddering

Graduates of the Associate of Commerce and Business Administration Diploma can ladder into the Bachelor of Business Administration (on-campus) or the Bachelor of Commerce (online) with no loss of credit and complete the degrees in as little as two years on a full-time basis.

Program Contact

School of Business and Economics Student Services IB 2074
Email sobeadvisor@tru.ca | Phone 250-852-7635
Web tru.ca/business

Executive Assistant Diploma

Program Overview

The Executive Assistant Diploma is a one-year program which prepares graduates to serve in more senior positions as office managers and assistants to senior executives in both industry and government. After completing the TRU Administrative Assistant Certificate in Year 1 or an equivalent office administration program from another institution, students take additional courses in accounting, communications, marketing, law and management in Year 2.

With the Executive Assistant Diploma, graduates will be well-prepared to pursue the Certified Administrative Professional (CPS) or Organizational Management (OM) designation or ladder into a business degree either on-campus or online.

Learning Options

Part-time Yes | **On-campus** Yes
Distance: All courses are available through distance education

Program Start Date: September, January, May

Admission Requirements

Students must meet each of the following to be admitted to the Executive Assistant Diploma:

1. BC Grade 12 or mature student status
2. Foundations Math 12 **or** Pre-calculus 12 with minimum C+ **or** equivalent
3. English 12/English 12 First Peoples with a minimum of 73% **or** equivalent
4. Completion of the TRU Administrative Assistant Certificate **or** equivalent one-year certificate program

Laddering

Graduates of the Executive Assistant Diploma can ladder into the Bachelor of Business Administration (on-campus) or the Bachelor of

Commerce (online) with no loss of credit and complete the degrees in as little as two years on a full-time basis.

Program Requirements

Fall semester	
ENGL 1100	Introduction to University Writing
MNGT 1710	Introduction to Business
ORGB 2180	Organizational Behaviour
ACCT 2210	Financial Accounting
MNGT 2610	Management Information Systems

Winter semester	
CMNS 1290	Introduction to Professional Writing
ACCT 2250	Management Accounting
MKTG 2430	Introduction to Marketing
HRMN 2820	Human Resource Management
BLAW 2910	Commercial Law

Students must achieve a grade of C- or better in all courses to graduate.

Students must apply for graduation and attendance at convocation by completing and submitting their application through myTRU.

Business Foundations Certificate

Program Overview

The Business Foundations Certificate is a one-year program that focuses on students who can only attend classes for a short period of time or who want to earn a business credential quickly to help find an entry-level position or advance at work. It is expected that most graduates will continue their studies at a later date and complete a business diploma or degree either on-campus or online.

Learning Options

Part-time: Yes **On-campus**: Yes
Distance: All courses are available through distance education
Program start dates: September, January, May

Admission Requirements

Students must meet each of the following to be admitted to the Business Foundation Certificate:

1. BC Grade 12 or mature student status
2. Foundations Math 12 or Pre-calculus Math 12 with a minimum C+ **or** equivalent
3. English 12/English 12 First Peoples with a minimum of 73% **or** equivalent

Students may commence their studies while they upgrade their English and Mathematics.

Program Requirements

Fall semester	
MATH 1070 MATH 1100	Mathematics for Business and Economics **or** Finite Mathematics with Applications
ENGL 1100	Introduction to University Writing
MNGT 1710	Introduction to Business
ECON 1220 ECON 1900	Introduction to Basic Economics **or** Principles of Microeconomics
ACCT 2210	Financial Accounting
Winter semester	
ECON 1900 ECON 1950	Principles of Microeconomics **or** Principles of Macroeconomics
CMNS 1290	Introduction to Professional Writing
ACCT 2280	Accounting Software Systems
MIST 2610	Management Information Systems
ORGB 2810	Organizational Behaviour

Students must achieve a grade of C- or better in all courses to graduate. Those who plan on pursuing the Bachelor of Business Administration are recommended to take MATH 1070, ECON 1900, and ECON 1950.

Students must apply for graduation and attendance at convocation by completing and submitting their application through myTRU. The deadline for submitting an application to graduate and attend convocation is below:

	Application to graduate Deadline	Course completion (includes TRU-OL)
June ceremony	March 31	April 30
October ceremony	July 31	August 31

Laddering

Graduates of the Business Foundations Certificate can ladder into the Accounting Technician or Management Diplomas or directly into the Bachelor of Business Administration (on-campus) or the Bachelor of Commerce (online). They will receive full credit for the courses taken in the certificate and can complete a diploma in as little as one year and the degree in as little as three years on a full-time basis.

Program Contact

School of Business and Economics Student Services IB 2074
Email sobeadvisor@tru.ca | Phone 250-852-7635 | tru.ca/business

Business Fundamentals Certificate

Program Overview

A one-semester program. Graduates receive a Business Fundamentals Certificate. Students acquire basic office administration skills. Students receive training using the latest office technology. Oral and written communication skills and effective interpersonal skills are emphasized. Introductory bookkeeping skills are also an integral part of this program. Graduates will qualify for some entry-level positions, but further study is recommended.

Learning Options

Part-time: No | **On-campus:** Yes
Program start date: September (on-campus)

Admission Requirements

1. BC Grade 11 (Grade 12 preferred) **or** mature student status
2. English 12/English 12 First Peoples with a minimum of 67 % **or** equivalent
3. Minimum keyboarding speed of 25 net words per minute

Program Requirements

Fall semester (September to December)	
ABTS 1550	Online Learner Success
ABTS 1100	Word Processing 1
ABTS 1140	Keyboarding 2
ABTS 1200	Introduction to Computers
ABTS 1210	Spreadsheets 1
ABTS 1230	Databases
ABTS 1300	Business English
ABTS 1430	Accounting 1
ABTS 1500	Human Relations
ABTS 1270	Outlook

Note: Students do not have to complete ABTS 1550 if they take the program on campus.

Students must achieve a grade of C (vocational grading scale) or better in all courses to graduate.

Laddering

Students may ladder into the Administrative Assistant Certificate program after completion of the Business Fundamentals Certificate.

Program contact

School of Business and Economics Student Services IB 2074
Email sobeadvisor@tru.ca | Phone 250-852-7635 | tru.ca/business

Administrative Assistant Certificate

Program Overview

The Administrative Assistant Certificate can be completed full-time on campus over an eight-month period beginning each September. The program prepares students for employment in a variety of office positions such as receptionist, bookkeeper, website administrator or personal assistant. Emphasis is placed on developing a student's communication, software application and accounting skills and their ability to work effectively as part of a team while demonstrating a high degree of competence and personal initiative.

After completing the Administrative Assistant Certificate, graduates can pursue the Certified Administrative Professional (CAP) or Organizational Management (OM) designation. They can also ladder into the Executive Assistant Diploma and then possibly a business degree either on-campus or online.

Students who complete the fall semester courses can exit with a Business Fundamentals Certificate. This will qualify graduates for some entry-level office administration positions, but further study is recommended.

Learning Options

Part-time: No | **On-campus:** Yes
Program start date: September (on-campus)

Admission Requirements

To be admitted to the Administrative Assistant Certificate program students must meet each of the following:

1. BC Grade 11 (Grade 12 preferred) or mature student status
2. English 12/ English 12 First Peoples with a minimum of 67 %(or equivalent)
3. Minimum keyboarding speed of 25 net words per minute.

Laddering

Graduates of the Administrative Assistant Certificate can ladder into the Executive Assistant Diploma and receive a block transfer of 15 credits for the courses taken in the certificate or a similar program taken at another institution. Diploma graduates can in turn ladder into the Bachelor of Business Administration (on-campus) or the Bachelor of Commerce (online) and complete the degrees in as little as two and a half years on a full-time basis.

Program Requirements

Fall semester	
ABTS 1550	Online Learner Success
ABTS 1100	Word Processing 1
ABTS 1140	Keyboarding 2
ABTS 1200	Introduction to Computers
ABTS 1210	Spreadsheets 1
ABTS 1230	Databases
ABTS 1300	Business English

ABTS 1430	Accounting 1
ABTS 1500	Human Relations
ABTS 1270	Outlook
Winter semester	
ABTS 1110	Word Processing 2
ABTS 1120	Desktop Publishing
ABTS 1220	Spreadsheets 2
ABTS 1240	Presentation Software
ABTS 1250	Integrated Project
ABTS 1260	Website Design and Maintenance
ABTS 1310	Business Communications 2
ABTS 1410	Computerized Accounting-Simply
ABTS 1440	Accounting 2
ABTS 1510	Job Search
ABTS 1520	Practicum 1
ABTS 1530	Administrative Procedures

Note: ABTS 1550 must be taken by online students only before they begin their first online course. Completion of ABTS 1520 is optional.

Students must achieve a grade of C or better (vocational program grading scale) in all courses to graduate.

Students must apply for graduation and attendance at Convocation by completing and submitting their application through myTRU. The deadline for submitting an application to graduate and attend Convocation is below:

	Application to graduate Deadline	Course completion (includes TRU-OL)
June ceremony	March 31	April 30
October ceremony	July 31	August 31

Program contact

School of Business and Economics Student Services IB 2074
Email sobeadvisor@tru.ca | Phone 250-852-7635 | tru.ca/business

First Nation Taxation Administration Certificate

Program Overview

The First Nation Tax Administration Certificate provides the knowledge and skills needed to design and operate a taxation system similar to other governments using the powers outlined in the *First Nation Fiscal Management Act*. It examines how First Nation government tax policies can be used to promote economic development and finance and build infrastructure. The program pays particular attention to communicating tax policies and laws to Chief and Council and taxpayers.

The program will be of interest to people in First Nation taxation and development roles; those doing business with First Nations; and local, provincial or federal government employees involved with First Nation taxation systems.

Learning Options

The First Nation Tax Administration Certificate is a joint initiative of the Tulo Centre of Indigenous Economics, the First Nations Tax Commission and Thompson Rivers University (TRU).

The certificate is a blended program with six of eight courses taken at TRU's campus in Kamloops, BC. These courses are offered as one-week intensive seminars and are led by an experienced Tulo facilitator. Class sizes are small and students benefit greatly from extensive interaction with their instructor and other students who share the common goal of achieving greater financial independence for First Nations.

The remaining two courses do not require the same high-level of interaction and are completed through distance education in an independent study, continuous intake format. Students can enrol in these courses at any time if they have the necessary prerequisites and can complete them over a flexible time frame that suits their family and work commitments.

Admission Requirements

To be admitted to the First Nation Taxation Administration Certificate students must meet each of the following:

1. Pre-calculus 11 or Foundations of Mathematics 11 with a minimum C+ **or** equivalent
2. English 12/English 12 First Peoples with a minimum of 73% **or** equivalent
3. Basic computer literacy with exposure to word processing and spreadsheet software

Students may commence their studies while they upgrade their English, mathematics and computing skills.

Program Requirements

APEC 1610	Introduction to First Nation Taxation
APEC 1620	Establishing First Nation Tax Rates and Expenditures
APEC 1631 APEC 1630	Assessment and Assessment Appeal Procedures **or** Assessment and Assessment Appeal Procedures
APEC 1640	Administration Tax Notices Collection and Enforcement
APEC 1650	Communications, Tax Payer Relations, and Dispute Resolution
APEC 1660	Service Contracts and Joint Agreements
APEC 1671 APEC 1670	Development Cost Charges **or** Development Cost Charges
APEC 1680	Capital Infrastructure and Debenture Financing
Note: APEC 1631 and APEC 1671 are usually taken through distance education while the remaining courses are completed on campus.	

Students must achieve a grade of C- or better in all courses to graduate.

Program Contact

Tulo Centre of Indigenous Economics
321 – 345 Chief Alex Thomas Way
Kamloops, BC V2H 1H1

Sarah Jules, Administrator sarah@tulo.ca ✉ | Phone 250-828-9881.
Web tulo.ca.

First Nation Applied Economics Certificate

Program Description

The First Nation Applied Economics Certificate provides foundational knowledge and skills to assist in the development of First Nation economic infrastructure, in particular the development of residential and commercial enterprises.

The program will be of interest to people in First Nation economic development roles; those doing business with First Nations; and local, provincial or federal government employees involved with First Nation development.

Learning Options

The First Nation Applied Economic Certificate is a joint initiative of the Tulo Centre of Indigenous Economics, the First Nations Tax Commission and Thompson Rivers University (TRU).

The certificate is a blended program with five of eight courses taken at TRU's campus in Kamloops, BC. These courses are offered as one-week intensive seminars and are led by an experienced Tulo facilitator. Class sizes are small and students benefit greatly from extensive interaction with their instructor and other students who share the common goal of promoting economic development on First Nation lands.
The remaining three courses do not require the same high-level of interaction and are completed through distance education in an independent study, continuous intake format. Students can enrol in these courses at any time with the necessary prerequisites and can complete them over a flexible time frame that suits their family and work commitments.

Admission Requirements

To be admitted to the First Nation Applied Economics Certificate students must meet each of the following:

1. Pre-calculus 11 or Foundations of Mathematics 11 with a minimum C+ **or** equivalent
2. English 12/English 12 First Peoples with a minimum of 73% **or** equivalent
3. Basic computer literacy with exposure to word processing and spreadsheet application software

Students may commence their studies while they upgrade their English and mathematics and computing skills.

Program Requirements

ENGL 1021 ENGL 1100 ENGL 1101 CMNS 1810 CMNS 1811	Composition and Indigenous Literature in Canada **or** Introduction to University Writing **or** Introduction to University Writing Business, Professional and Academic Composition **or** Business, Professional and Academic Composition
ECON 1220 ECON 1221	Introduction to Basic Economics or Introduction to Basic Economics
ECON 2630 ECON 2631	Issues in Aboriginal Economics **or** Issues in Aboriginal Economics
APEC 2640	Residential and Commercial Development on First Nations Lands
APEC 2650	Investment Facilitation on First Nations Lands
APEC 2660	Resource Development on First Nation Lands
APEC 2670	First Nation Fiscal Relationship and Economic Development
APEC 2700	Economic Feasibility and Impact Analysis on First Nations Lands
Note: ECON 1221, ECON 2631, and the English requirement are usually taken through distance education while the remaining courses are completed on campus.	

Program Contact

Tulo Centre of Indigenous Economics
321 – 345 Chief Alex Thomas Way
Kamloops, BC V2H 1H1

Sarah Jules, Administrator sarah@tulo.ca ✉ | Phone 250-828-9881.
Web tulo.ca.

Faculty of Education and Social Work

Master of Education |Graduate Certificate in Educational Studies

The TRU Master of Education (MEd) is a practitioner's degree designed for students who wish to assume positions as educational leaders and researchers, working in a variety of roles in education, health care, private industry or government. The program's instructors are drawn from a range of professional fields supporting several areas of study. Students graduate with a Master of Education (MEd) degree. Students have the option of completing the program through a capstone, final project, or thesis. The Graduate Certificate in Educational Studies (GCES) is designed to help students develop English language and academic skills necessary to succeed in TRU's Master of Education (MEd) program.

Learning Options

Full-time or part-time study

The MEd can be completed through full-time or part-time study over a maximum period of five years.

On-campus, Online or Blended

Courses are offered, online (through Open Learning), on-campus, or through a combination of online and on-campus to allow students to choose from different forms of delivery.

Program schedule

Students usually enter the program in the fall semester and a limited number of students (depending on available seats) begin in the winter semester. Courses are offered in the fall, winter and spring semesters. To accommodate the needs of working professionals, courses are offered in the evenings, over the weekends and some are offered in July. Courses may or may not be scheduled every year and/or every semester and are subject to minimum enrolments.

Master of Education Program Overview

Experiential learning is at the heart of the TRU MEd. Students participate in classroom discussions and readings, guided inquiry, and independent study. Analyzing information, utilizing data in professional settings, and exploring various methods of research presentation are all key components of the program.

The Master of Education program can be completed while studying on-campus, online or through a combination of online and on-campus courses.

The Master of Education program offers an array of courses that may partially prepare students for qualification for other professional certifications, but does not guarantee qualifications for any certification. Students enrolling in the MEd are responsible for identifying pathways to certifications of interest to them. This includes those seeking teaching or other certifications. The Master of Education program does not provide qualifications for teaching positions in the public education system in Canada.

Students who have a Bachelor of Education (BEd) degree (category 5) and complete the Master of Education qualify for Teacher Qualification Service (TQS) (category 6). A BEd degree is not required to enter the TRU MEd.

Admission Requirements

Four-year baccalaureate degree or equivalent, with a minimum B average (GPA of 3.00 on a scale of 4.33) in the last 60 credits. Applicants with a four-year baccalaureate degree or equivalent who have a GPA below 3.00 (but not below 2.50) may take TRU's Graduate Certificate in Educational Studies to gain admission into the MEd program.

English Language Proficiency

Applicants who did not complete their undergraduate degree from an English language university normally must have one of the following to enter the MEd program:

- a minimum TOEFL score of 570 with a TWE of 4.5 or higher (paper-based test).
- a minimum TOEFL 230 with an Essay of 4.5 or higher (computer-based test).
- a minimum TOEFL (IBT) 88 with no section below 20.
- IELTS of at least 6.5 with no bands below 6.5.
- CAEL of at least 70 with no subtest below 60.
- Successful completion (or exemption) of TRU ESAL Level 5

Official copy of educational transcripts for all post-secondary education (in original language and a certified copy in English) or a letter of permission from the student's home institution.

Application Process

Full information on the application process is available at: tru.ca/admissions. Apply online for the Master of Education.

Applications must include the application fee and:

1. Personal Resume/CV.
2. A letter of intent (approx. 350 words). The Letter of Intent should address:
   - Applicant's motivation for undertaking the MEd program;
   - Applicant's expectations of the program in terms of impact on career and personal educational goals.
3. Official copy of educational transcripts for all post-secondary education (in original language and a certified copy in English) or a letter of permission from the student's home institution.

Registration and Payment of Fees

The Graduate Program Committee recommends acceptance based on admissions criteria stated by the program, fit within the program, enrolment numbers, availability of a supervisor with the appropriate interest and expertise (if applicable).

All applicants are informed of the admission decision. Admission decisions are final and are not appealable.

Students admitted for graduate studies, receive a conditional letter of acceptance from Enrolment Services, Graduate Admissions.

Students must pay the tuition deposit as indicated in their conditional letter of acceptance in order to reserve a place in the program. Students who do not pay their tuition deposit will forfeit their reserved place in the program and those on the waiting list will be extended offers of admission.

Program Requirements

The Master of Education program consists of a minimum of 30 credits. All MEd students take five core courses and five elective courses. Elective courses are selected from available courses in educational leadership, curriculum, counselling, and inclusive and special education. Subject to available spaces, students may take one or more elective courses in an area of study. Courses may or may not be scheduled every year and are subject to minimum enrolments. Students must comply with the academic standards set by TRU graduate studies.

Students must choose one of three completion options: capstone, project, or thesis.

Students in the **Capstone Exit Option** complete 5 core courses, 4 electives and the capstone-EDUC 5280/5281.

Students in the **Project Exit Option** complete 5 core courses, 3 electives and the project-EDUC 5180.

Students in the **Thesis Exit Option** complete 5 core courses, 2 electives, the research design and the thesis- EDUC 5070 and EDUC 5998.

Students doing a field placement involving work with children and/or vulnerable adults must undergo a Criminal Record Check (CRC) through the Criminal Record Review Program prior to commencing their practicum. Students are informed of the CRC process during program information/orientation sessions. Any CRC done outside of TRU will not be accepted and will result in an additional cost to the student.

All students complete 15 credits of required core courses and 15 credits of elective courses, through on campus or online delivery, or a combination of both delivery methods.

All students complete the following required core courses:		
On Campus	**Online**	**Course title**
EDUC 5010	EDUC 5011	Research Methods (3 credits)
EDUC 5040	EDUC 5041	Diversity: Constructing Social Realities (3 credits)
EDUC 5020	EDUC 5021	Philosophy and History of Education (3 credits)
EDUC 5400	EDUC 5401	Principles and Processes of Educational Leadership (3 credits)
EDUC 5030	EDUC 5031	Curriculum, Teaching, and Learning (3 credits)
Students choose 15 credits of the following elective courses		
On Campus	**Online**	**Course title**
EDUC 5420	EDUC 5421	Legal Issues in Education (3 credits)
EDUC 5440	EDUC 5441	Understanding and Managing Conflict (3 credits)
EDUC 5460	EDUC 5461	Educational Management (3 credits)
EDUC 5060		Directed Seminar (3 credits)
EDUC 5280	EDUC 5281	Capstone Seminar (3 credits)
EDUC 5180		Research Project (3 credits)
EDUC 5070		Thesis Proposal (3 credits)
EDUC 5998		Thesis (6 credits)
EDUC 5500	EDUC 5501	Introduction to Counselling Skills (3 credits)
EDUC 5510	EDUC 5511	Theories in Counselling (3 credits)
EDUC 5520	EDUC 5521	Assessment and Evaluation in Counselling (3 credits)
EDUC 5550	EDUC 5551	Introduction to Secondary School Counselling (3 credits)
EDUC 5560		Career Counselling and Development (3 credits)
EDUC 5580		Counselling Internship (6 credits)
EDUC 5100		Selected Topics in Exceptionalities (3 credits)
EDUC 5990		Special Topics in Education
EDUC 5600		Education Research Colloquium/Research Institute
EDUC 5110		Mind, Brain and Education: An Introduction to Educational Neuroscience
EDUC 5120		Assessment of Exceptionalities: Theory and Practice
EDUC 5130		Inventions and Programming in Inclusive and Special Education
EDUC 5140		Literacy for Individuals with Exceptionalities
EDUC 5160		Field Experience 1
EDUC 5170		Field Experience 2

Graduate Certificate in Educational Studies (GCES)

Program Overview

The Graduate Certificate in Educational Studies (GCES) is designed to help students develop English language and academic skills necessary to succeed in TRU's Master of Education (MEd) program.

The GCES is intended for two categories of students:

- Those with English skills insufficient for admission directly into TRU's Master of Education (MEd). Students with TOEFL or IELTS scores insufficient for admission directly into the MEd will be required to complete up to six courses in English as a Second Language. Students must complete these courses with an average of B or better to satisfy the English language admission requirements for the MEd.
- Those who meet English language requirements for admission to graduate studies at TRU, but who need to upgrade their GPA and/or ease the transition to TRU's MEd. Students in this category will be required to complete three graduate courses.

International students who need English upgrading will be required to successfully complete up to five levels of TRU's English as a Second Language program before entering TRU's MEd program. In addition to the ESL courses, students will be required to successfully complete three graduate level courses.

The GCES is considered a standalone Graduate Certificate that qualifies GCES graduates for admission into TRU's MEd program. Credits received in GCES do not transfer to the TRU MEd program.

Admission Requirements

1. Four-year undergraduate degree from an accredited institution
2. GPA of 2.5 on 4-point scale in the last 60 credits
3. Language requirements (for international students only): IELTS 5.5, or TOEFL 530 with a TWE of 4.0 (paper-based test), or 213 with an essay of 4.0 (computer-based test), or 80 (ibt)
4. Letter of intent
5. Three letters from professional or academic referees

MEd Program Contact

edgradadvising@tru.ca | Master of Education Program Information
Graduate Programs Information

Bachelor of Education (Secondary) Science, Technology, Engineering and Mathematics (STEM)

The Bachelor of Education (Secondary) STEM is a twelve-month full-time intensive program that prepares teacher candidates to teach science and/or mathematics in secondary schools. The program begins in July of one year and ends in June of the following year. Students are admitted after completing a bachelor's degree in the areas of science or mathematics.

Learning Options

Full-time or part-time study
Students normally complete the program on a full-time basis.

On-campus
The program is offered on the Kamloops campus.

Program start date
Students enter the program in the summer semester, at the beginning of July.

Program Overview

The Bachelor of Education (BEd) (Secondary) STEM degree prepares students to teach science and mathematics in the context of engineering and technology in secondary school settings. Graduates qualify for a professional teaching certificate from the BC Ministry of Education, Teacher Regulation Branch (TRB), certifying them to teach science and mathematics subjects in a secondary school setting in BC. The program includes foundation courses in education, methods courses and practica.

Admission Requirements

Academic requirements

1. Four-year Bachelor of Science degree (120 credit hours) or equivalent in mathematics, or science (such as physics, biology, chemistry or general science) with a minimum grade point average of C+ (GPA 2.33) on the most recent 60 credit hours completed.

2. Within the degree all applicants must have one teachable major or two teachable minors (courses taught in secondary schools).
   - A teachable minor consists of 18 credit hours of upper-level courses (numbered 3000 or 4000), in addition to required lower-level courses.
   - A teachable major consists of thirty (30) credit hours of upper-level courses (numbered 3000 or 4000) in addition to required lower-level courses.

3. Successful completion, with a C+ average of six (6) credit hours of acceptable English Literature and Composition at any level. Courses in linguistics, language study, grammar, technical or business writing, communication, or English as a second language are not acceptable to meet the English requirement.

Teaching experience requirement

One hundred (100) hours minimum of relevant volunteer or paid teaching experience working with groups of school age students. These hours must be completed prior to admission into the program. It is recommended that a minimum of 25 of these hours be in a middle or secondary-school classroom or environment.

Other Requirements

- Letter of Intent (no more than 300 words)
- Spontaneous write and personal interview
- Two (2) confidential statements from referees

Criminal record check: Students entering the program are required to complete a criminal record check.

Application process

Students apply online at tru.ca/admissions.

Applications must include:

- TRU completed application, letter of intent, and summary of teaching experience, verified by a supervisor or supervisors;
- Application fee;
- Official transcripts from all post-secondary institutions other than TRU;
- Two confidential statements from referees qualified to attest to the applicant's suitability for teaching. Confidential statement forms are included in the Admissions Requirements Package and should be sent directly to Admissions.

Consideration will be given to all applicants who meet the minimum admission requirements.

When assessing candidates, the factors are weighted as follows:

- 40% GPA
- 60% other factors combined (see below);
  - One hundred (100) hours minimum of relevant volunteer or paid experience - in a teaching environment with school-age students
  - Two (2) confidential statements from referees
  - Letter of Intent - Spontaneous Write - Personal Interview

Offer of Acceptance
Students are notified in writing of acceptance into the program. Once admitted, students are asked to pay a $500.00 tuition deposit in order to reserve a place in the program.

Program Requirements

The BEd Secondary STEM program extends over twelve (12) months from the beginning of July of one year to the end of June of the following year. Courses and associated school experiences are completed in a specified sequence. After completing all program requirements, candidates are awarded the Bachelor of Education (Secondary) degree and are eligible to apply for a Professional Teaching Certificate issued by the British Columbia Teacher Regulation Branch.

Summer 1 (15 credits)		
Course	Credits	Description
EDSM 3100	3	Introduction to STEM
EDTE 3120	3	Adolescent Learning and Development
EDTE 3110	3	Learning , Curriculum and Assessment
EDTE 3150	3	Diversity and Inclusive Education
EDIT 4150	3	Information Technology across the Curriculum
Fall 1 (17 credits)		
Course	**Credits**	**Description**
EDTE 3410	2	Practicum 1
EDCO 3100	2	Communications 1
EDLL 3160	2	Literacy Across the Content Areas
EDTE 3420	2	Practicum 2
EDIE 4150	3	Inclusive Education: Specific Learning Disabilities

EDSM 4200	3	STEM Specialty (1st half) (Science, Technology, Engineering, Mathematics)
EDFN 4200	3	Aboriginal Culture and Learning
Winter 1 (19 credits)		
Course	**Credits**	**Description**
EDSM 4200	3	STEM Specialty (2nd half) (Science, Technology, Engineering, Mathematics)
EDAR 4200	3	Teacher Action Research (1st half)
EDTE 3130	3	Legal Issues in Secondary Learning
EDTE 3140	2	Organizing and Managing Technology Learning Facilities
EDTE 3430	2	Practicum 3
EDTE 3440	3	Practicum 4
EDTE 3450	3	Practicum 5
Summer 2 (10 credits)		
Course	**Credits**	**Description**
EDTE 4110	4	Professional Growth and Development
EDAR 4200	3	Teacher Action Research (2nd half)
EDTE 3180	3	History of Education
EDTE 3190	3	Philosophy of Education
Total Credits	**13**	
Total Credits 64		

Practica

While we attempt to place students within the TRU region in a school district of their choice, only a limited number of placements are available in any one district. Therefore, s*tudents may be asked to accept a placement in any one of the seven partner school districts and to assume transportation and living costs related to their placement.*

Graduation: Successful completion of all coursework and practica.

BEd, Secondary STEM Program Contact

edadvising@tru.ca | 250-377-6048

Bachelor of Education (Secondary) STEM Program Information

Bachelor of Education (Elementary)

The TRU Bachelor of Education (Elementary) is a two-year program which integrates two years of theoretical and pedagogical study with a particular focus on elementary school experiences. Dependent upon prior learning, graduates may be eligible to teach in elementary or secondary schooling. Students are eligible for admission with a minimum of 90 credits acceptable to the School of Education. Graduates receive a Bachelor of Education (BEd) degree and qualify for a Professional Teaching Certificate issued by the Ministry of Education Teacher Regulation Branch (TRB).

Learning Options

Full-time or part-time study: Students normally complete the program on a full-time basis.

On-campus: Offered on the Kamloops campus.

Program start date: Students enter the program in the fall semester.

Program Overview

The Bachelor of Education (Elementary) program offers a combination of on-campus study and extensive school practicum experiences focused on elementary school settings in particular. The BEd (Elementary) degree gives graduates the skills they need to pursue a career in elementary education, and, dependent upon prior learning, graduates may be eligible for secondary teaching. Graduates of the program meet the educational requirement for a Professional Teaching Certificate issued by the British Columbia Teacher Regulation Branch (TRB) certifying them to teach grades K-12 in BC.

Admission Requirements

Academic Requirements

1. **6 credits of English**, including both literature and composition
2. **3 credits of mathematics** (not statistics)
3. **3 credits of science in one of the following areas** – biology, chemistry, physics, physical geography, geology/earth science, environmental studies, or astronomy.
4. **3 credits of history or geography**
5. **18 credits of third- and fourth-year level courses in** one or more teachable areas – art, business education, dance, drama, music, language arts (English, second languages), mathematics, computer science, physical education, science, and social studies (any combination of anthropology, Canadian studies, economics, First Nations studies, geography, history, political science, or sociology)
6. **6 credits of Canadian studies** taken in humanities or social sciences (may be included in 4 and 5 above)
7. **24 credits of course work in a subject area taught in British Columbia schools** - These include art, biology, business education, chef instructor, chemistry, computer science, dance, drama, earth science, English, First Nations studies, French, general science, geography, German, History, home economics, Italian, Japanese, Korean, Mandarin, mathematics, music, physical education, physics, Punjabi, Russian, social studies, Spanish, special education, technology (industrial) education. These 24 credits may include the 18 credits in number 5, above.
8. A **minimum GPA of 2.67** is required for consideration, but does not guarantee admission. Admission averages are calculated on a total of 33 credits, including 1 to 5 above.

Other requirements

One hundred (100) hours minimum of relevant volunteer or paid experience working with groups of elementary school-aged children must be completed prior to admission into the program. A minimum of 25 of these hours are required to be in an elementary school setting**.**

Criminal record check: Students entering the program are required to complete a criminal record check

Application process

Apply online. See: Program Information Package.

Applications must include:

1. Completed online application (including payment of the application fee), Letter of Intent, and Summary of Experience with Children.
2. Official transcripts from all post-secondary institutions other than TRU at which the applicant has studied.
3. Two referees who are qualified to attest to the applicant's suitability for teaching must send confidential statements directly

to Admissions. Confidential statement forms are included in the Program Information Package.

Consideration will be given to all applicants who meet the minimum admission requirements.

When assessing candidates, the factors are weighted as follows: - 40% GPA - 60% other factors combined (see below)

- One hundred (100) hours minimum of relevant volunteer or paid experience - in a teaching environment with elementary school-age students
- Two (2) confidential statements from referees
- Letter of Intent

Offer of Acceptance

Students are notified in writing of acceptance into the program. Once admitted, students are asked to pay a $500.00 tuition deposit in order to reserve their place in the program.

Transfer to TRU

Applicants who have completed educational requirements at other colleges or universities are considered on the same basis as students who have attended TRU. Students intending to transfer to TRU from other BC institutions should check the BC Transfer Guide to ensure that courses taken will transfer. Students from other provinces will be assessed individually.

Program Requirements

The BEd Elementary program extends over two academic years of two terms each. Courses and associated school experiences are completed in a specified sequence.

After completing all program requirements, candidates are awarded the Bachelor of Education (Elementary) degree and are eligible to apply for a Professional Teaching Certificate issued by the British Columbia Teacher Regulation Branch.

Year 1, Term 1

Course	Credits	Description
EDPR 3100	1 (44 hrs)	Practicum 1 (6 Wednesdays in October and November)
EDCO 3100	2	Communications 1
EDIE 3100	3	Child Development and Teaching
EDEF 3100	3	History of Education
EDLL 3100	3	Language and Literacy 1
EDMA 3100	3	Mathematics 1
EDPE 3100	3	Physical Education Methods
EDTL 3100	3	Teaching and Learning 1
Total credits	21	

Year 1, Term 2

Course	Credits	Description
EDPR 3200	2 (60 hrs)	Practicum 2 (final 2 weeks in winter term)
EDLL 3200	3	Language and Literacy 2
EDMA 3200	3	Mathematics 2
EDSC 3200	3	Science Methods
EDSO 3200	3	Social Studies Methods
EDTL 3200	3	Teaching and Learning 2
EDEF 3200	3	Theoretical Frameworks of Education
Total credits	20	

Year 2, Term 1 (course-work begins after EDPR 4100)

Course	Credits	Description
EDPR 4100	3 (90 hrs)	Practicum 3 (3 weeks at September start)
EDHC 4100	2	Health and Career Education
EDIE 4100	3	Special Education
EDTL 4100	3	Teaching and Learning 3
EDVP 4100	2	Drama
EDVP 4110	2	Music
EDVP 4120	2	Visual Arts
EDSL 4200	2	ESL/Second Languages
Total	19	

Year 2, Term 2 Courses: (intensive 4 week session after EDPR 4200)

Course	Credits	Description
EDPR 4200	5 (300 hrs)	Practicum 4(10 weeks, beginning in January at school district opening dates)
EDEF 4200	1	School Organization
EDFN 4200	3	Aboriginal Culture and Learning
EDCO 4200	1	Communications 2
Elective	3	One course will be offered from those listed below
Total	13	

Electives

Course	Credits	Description
EDLL 4150	3	Children's Literature
EDPE 4150	3	Elementary Physical Education: Instruction
EDSC 4150	3	Environmental Education
EDSO 4150	3	Global Education
EDIT 4150	3	Information Technology Across the Curriculum
EDVP 4150	3	Music Curriculum and Instruction: Elementary
EDSC 4160	3	Problem Solving in Science and Mathematics
EDEF 4150	3	Social Foundations of Education: Gender and Education
EDEF 4160	3	Rural or Small Schools in British Columbia
EDIE 4150	3	Inclusive Education: Specific Learning Disabilities
EDVP 4160	3	Arts and Media Literacy

Practica

Students admitted to the BEd Elementary program will be asked to identify their preferences for geographic areas within the TRU region for their three-week and ten-week school practica. While we attempt to place students within the TRU region in a school district of their choice, only a limited number of placements are made in any one district. *Students must be prepared to accept any placement in one of the seven partner school districts and to assume transportation and living costs.*

BEd, Elementary Program Contact

edadvising@tru.ca | 250-377-6048 | Bachelor of Education Program Information

Physical Education Transfer Program

Students interested in majoring in Physical Education may complete first- and second-year courses at TRU for transfer to other institutions.

Courses offered are a combination of activity and theory courses.

Transfer information for specific universities can be found in the BC Transfer Guide at bctransferguide.ca/. It is recommended that students consult with an Academic Advisor at TRU to plan an appropriate course schedule.

Students should be aware that acceptance at each university is based on grades, suitability and other criteria specific to each university. Students are advised to consult with the particular university or again, our Academic Advisors who can also assist you in making this choice.

Bachelor of Social Work

A four-year degree program which includes two years of undergraduate study prior to admission to the BSW program. Students are admitted to the third year of the program with a minimum of 54 credits of academic coursework prior to admission. Graduates receive a Bachelor of Social Work (BSW) degree.

Learning Options

Full-time or part-time study is available.
Limited admission
On-campus: The BSW program is offered on the TRU Kamloops campus.
Students enter the program in the fall semester. Most courses are offered in the fall and winter semesters, with some summer course offerings.

Program Overview

The TRU Bachelor of Social Work (BSW) program offers a nationally accredited degree that prepares students for a career as a professional social worker. The BSW degree is designed to build on the educational achievements and experiences of a wide range of students. Both diploma graduates and undergraduate students who have completed the necessary prerequisites may enter the program.

The BSW program prepares competent generalist practitioners to provide service and leadership within regional, national, and global contexts to achieve social justice, respect for diversity, and social change. The program facilitates the development of knowledge, skills, and values necessary to work in collaborative and anti-oppressive ways. Students learn how to identify and eradicate barriers that prevent people from reaching their full potential. The program strives to respectfully integrate Indigenous perspectives (First Nations, Metis, and Inuit) into social work education, practice, and research.

The BSW program is fully accredited by the Canadian Association for Social Work Education.

Program Options

Nicola Valley Institute of Technology Program Option
A joint TRU/NVIT BSW degree program is offered at NVIT in Merritt and Burnaby. This program provides students with an Indigenous focus throughout their studies.

The joint TRU/NVIT degree is administered under an affiliation agreement between TRU and NVIT. Graduates receive a joint TRU/NVIT BSW degree.

Child Welfare Specialization
A specialization in child welfare is offered in the TRU BSW Program only. Students who take required courses in child welfare and complete a field placement with MCFD or in another setting with children and youth during their BSW program will graduate with a transcript notation indicating successful completion of the specialization.

Admission Requirements

The Bachelor of Social Work program admits approximately 70 full- and part-time students to TRU and 30 students to each NVIT (Merritt and Burnaby campuses) each fall. There are separate application packages for the TRU and NVIT programs.

Students are admitted to the Bachelor of Social Work program at year 3. To be eligible for admission to the Bachelor of Social Work program, applicants must have a minimum of 54 credits of transferable coursework (60 recommended). The credit requirements for admission can be met by:

1. General university studies: At least 54 credits (60 recommended). This must include 3 credits of academic English composition (ENGL 1100 at TRU) or 6 credits of English literature, and SOCW 2060 and SOCW 2120 or equivalent. A minimum GPA of 2.33 (C+) on general university coursework is required.
2. Combined Human Service Program and general university courses: At least 54 credits. This must include 3 credits of English Composition (ENGL 1100 at TRU) or 6 credits of English literature, and SOCW2060 and 2120 or equivalents, and a completed Human Service Worker Certificate or Diploma with a GPA of at least 2.67 (B-). Students with a certificate or diploma with a GPA of 2.67 or better may receive up to 12 discretionary credits.

Applicants are advised that all students admitted to the BSW Program will require a criminal record check after they are admitted. Many social and health agencies used for field education practica require a criminal record search as a condition of placement.

The BSW program recognizes that there are institutional processes and socio-cultural differences that present barriers to some applicants in gaining equal access to educational opportunities, and that diversity is a strength. Given the program's commitment to diversity, equity, and social justice, 25% of the seats in the TRU BSW program are reserved each year for students from equity-seeking groups such as, Indigenous

people, racialized and/or ethnic minority persons, sexual and/or gender minorities, and persons with disabilities. Students admitted to these reserved seats must meet all requirements for admission to the TRU BSW program.

Credit for up to 25% (15 credits) of the BSW degree may be granted through Prior Learning Assessment and Recognition (PLAR). To be eligible for PLAR assessment, students must be admitted to the BSW program. To be awarded PLAR credit, applicants must demonstrate how their skills, knowledge and competencies match the learning offered in course(s) for which they seek credit. Students must register and pay for any PLAR credits. For TRU students please contact the BSW Program Coordinator to register.

Admission to the BSW Program at NVIT is limited. Canadian Indigenous (First Nation, Metis, and Inuit) applicants are given first consideration for admission. Applicants with the highest rating on grade point average and related experience are offered admission first. An individual or group interview may be required.

Application Process

Students Apply Online.
For further information on application deadlines and procedures please visit: tru.ca/edsw/social-work/bsw/admits.

Transfer to TRU

Students may transfer up to 60 credits of acceptable study from any recognized college or university. Evaluation of transfer credit is done on an individual basis, except where formal transfer agreements are in place.

Program Requirements

Completion of the TRU and NVIT BSW degree requires 120 credits of study, including:

- a minimum of 48 credits in general university studies
- a minimum of 60 credits in social work
- students with a completed human service/social service certificate or diploma may be granted 12 discretionary credits
- students in the TRU BSW program must maintain a grade point average of 2.33 (TRU) in each semester, or they may be required to withdraw from the program
- students are required to adhere to the BCASW Code of Ethics, the Suitability Policy for the Profession of Social Work, and the Social Media Policy during their participation in this program
- a criminal record check is a requirement for all students registered in practicum placements
- internet access will be required of students in some social work courses, and for correspondence within the BSW Program

Third Year
Students in the third year of study typically take required social work courses and a few Social Work or Arts electives chosen in consultation with the Program Advisor. If TRU BSW students have not completed the human development requirement prior to admission, they may choose to complete SOCW 3550 or SOCW 3551 in year three of the TRU BSW Program or PSYC 2130/2230 in the NVIT BSW Program.

Summer Semester
Students may decide to take courses and/or complete their third- or fourth-year practicum during the summer, depending on course offerings.

Fourth Year
TRU students in the fourth-year will take the remaining required and elective Social Work courses chosen in consultation with the Program Advisor.

Social Work Core Courses—48 Credits

SOCW 2060	Introduction to Social Work Practice (3 credits)
SOCW 2120	An Introduction to Social Welfare in Canada (3 credits)
SOCW 3000	Canadian Social Policy (3 credits)
SOCW 3010	Introduction to Social Work Research (3 credits)
SOCW 3040	Social Work Field Practice (6 credits)
SOCW 3060	Theory and Ideology of Social Work (3 credits)
SOCW 3530	Social Work Practice with Individuals (3 credits)
SOCW 3540	Indigenous People and Human Services (3 credits)
SOCW 3550	Human Development (3 credits)
SOCW 3590	Social Work Practice with Diverse Populations (3 credits)
SOCW 4010	Race, Racialization and Immigration Policy (3 credits)
SOCW 4020	Social Work Field Practice II (9 credits)
SOCW 4540	Decolonizing Social Work Practice ne Secwepmecul'ecw (3 credits)

Social Work Core Courses – NVIT—45 Credits

SOCW 2060	Introduction to Social Work Practice (3 credits)
SOCW 2120	An Introduction to Social Welfare in Canada (3 credits)
SOCW 3010	Introduction to Social Work Research (3 credits)
SOCW 3040	Social Work Field Practice (6 credits)
SOCW 3060	Theory and Ideology of Social Work (3 credits)
SOCW 3100	Aboriginal Life Cycles (3 credits)
SOCW 3110	Aboriginal Perspectives on Social Policy (3 credits)
SOCW 3750	Cultural Immersion (3 credits)
SOCW 4020	Social Work Field Practice (9 credits)
SOCW 4040	Ethical Practice in Aboriginal Communities (3 credits)
SOCW 4540	Aboriginal Decolonizing Social Work Practice (3 credits)
SOCW 4560	Decolonizing Practice 2 (3 credits)

Social Work Elective Courses - TRU—12 Credits

Students complete 12 credits of electives (see list below for potential offerings)

SOCW 3300	International Field Studies (3 credits)
SOCW 3570	Social Work, Law and Social Policy (3 credits)
SOCW 3760	Family and Child Welfare Practice (3 credits)
SOCW 4000	Policy in the Human Services (3 credits)
SOCW 4010	Race, Racialization and Immigration Policy (3 credits)
SOCW 4200	Intimate Partner Violence and Social Work Practice (3 credits)
SOCW 4300	Sexual Orientation and Gender Expression (3 credits)
SOCW 4400	Social Work and Mental Health (3 credits)
SOCW 4500	Leader Practice in Social Service Organizations (3 credits)
SOCW 4520	Educating for Social Change (3 credits)
SOCW 4550	Social Work Practice with Communities (3 credits)
SOCW 4600	Special Topics in Social Work and Social Welfare (3 credits)
SOCW 4610	Social Work Practice With Groups (3 credits)
SOCW 4650	Older People, Aging and Society (3 credits)
SOCW 4660	Addictions and Social Work Practice (3 credits)
SOCW 4760	Family and Child Welfare Policy (3 credits)
SOCW 4770	Social Work Practice with Families (3 credits)
SOCW 4780	Introduction to Disability Studies (3 credits)
SOCW 4800	International Social Work (3 credits)
SOCW 4900	Directed Studies (3 credits)

Field Experience

Two social work practica (280 hours in third year and 420 hours in fourth year) are required to complete the BSW degree and the program utilizes an extensive number of service agencies in Kamloops and outlying areas for practicum.

Agencies are selected based on their potential to provide appropriate and relevant supervision, the specific match with student interests and needs, and the ability to provide practical social work experience. The development of a suitable practicum placement is a collaborative effort between the Field Education Coordinator, student and agency to maximize the student's learning potential. The Bachelor of Social Work program offers practicum placements in many different service areas including child and youth care, mental health, gerontology, clinical care, probation services, non-profit and for-profit agencies, contracted services, special projects, multicultural agencies, local Indigenous organizations and government ministries. Students are strongly encouraged to consider completing practica in communities surrounding Kamloops such as Barriere, Clearwater, Williams Lake, Merritt, 100 Mile House and Salmon Arm. Students are required to bear the costs of travel to and from practicum placements and to attend bi-weekly integrative seminars.

Fourth-year students *may* complete practica at a distance from TRU. Our students have benefited from field experience across Canada and in other countries, including Mexico, Cuba, Australia, New Zealand, India, and the United States.

Every registered student who has a practicum/clinical placement involving work with children and/or vulnerable adults must undergo a Criminal Record Check (CRC) through the Criminal Record Review Program. Students are informed of the CRC process during program information/ orientation sessions. Any CRC done outside of TRU will not be accepted and will result in additional cost to the student.

BSW Program Contact

socialwork@tru.ca | 250-852-7181
Bachelor of Social Work Program Information

Early Childhood Education Diploma
Special Needs Educator Certificate (Post-Diploma)
Infant and Toddler Educator Certificate (Post-Diploma)

The TRU Early Childhood Education (ECE) diploma program prepares students for employment in preschools, private kindergartens, nursery schools, family and group daycare centres and other child care facilities. This is a rapidly expanding field as many parents and caregivers are coming to realize the benefits of some form of early-years education for their children. Many families today also find they need some form of supplementary childcare services, which are dependable both in continuity and quality. Graduates receive an Early Childhood Education Diploma.

Learning Options

Full-time or part-time study: Students are expected to complete the program on a full-time basis. A limited number of students may also be admitted to the program to study on a part-time basis.

On-campus: The program is offered on the Kamloops campus.
Program start dates: Students enter the program in the fall semester.

Program Overview

The TRU Faculty of Education and Social Work offers the following Early Childhood Education (ECE) programs:

- Early Childhood Education Diploma
- Special Needs Educator Certificate (Post-Diploma)
- Infant and Toddler Educator Certificate (Post-Diploma)

It is expected that all students admitted to the ECE Diploma will also complete at least one of the Post-Diploma Certificates in ECE.

Early Childhood Education Diploma

The Early Childhood Education Diploma program provides an exemplary model of innovative practice and opportunities for classroom-based research so that students can acquire the necessary knowledge and skills to become effective educators of young children. Areas of learning include: developing relationships with children, child development, child guidance, interpersonal relations, educational theories, designing and developing curriculum content, working with diverse learners, reflective practice, engaging with families, and program management. Practical fieldwork experience is a component of each semester. By consolidating a personal philosophy toward early childhood care and education, graduates are able to work effectively with co-workers and children to co-construct rich learning opportunities and become strong advocates for children and families.

Innovative Practicum Model
In addition to placing students in a variety of community early childhood education centres, the ECE program partners with Cariboo Child Care, a non-profit society located on campus, to provide a valuable and practical learning opportunity for students. Students work with the same group of children throughout the practicum and assume increasing responsibilities for programming.

This model provides instructors with continuous opportunities to give feedback on student performance, and allows students to:

- develop long-term relationships with children, allowing for individualization of guidance and program strategies;
- connect practice with course work; and
- engage in applied research in curriculum development and documentation of the learning process

Certification
Completion of the ECE diploma satisfies the requirements of the BC Ministry of Children and Family Development ECE Registry for Certification as an Early Childhood Educator.

The ECE Registry requires 500 hours of work experience under the supervision of a Certified Early Childhood Educator in order to qualify for Certification as an Early Childhood Educator. Many of these hours

can be completed between the second- and third-semesters as either a volunteer or paid assistant in an early childhood setting.

This program does not, by itself, qualify a person to teach in a kindergarten that is part of a public school system.

Assistant Status: ECED 1320 and ECED 1330 fulfill the requirements for the province's Assistant Status designation.

Special Needs Educator Certificate (Post-Diploma)

Graduates of the Early Childhood Education program may choose to continue their studies so that they can work with children with special needs in licensed settings. Areas of learning include: child development, supporting children's social skills, programming for individual children, critical reflection and working with a team of educators and other professionals to facilitate inclusion, the ECE's professional role, and skills to support families. Students have the opportunity to connect theory and practice in practicum. Completion of the post-diploma certificate satisfies the requirements of the Community Care Facilities Branch (CCFB) Services for certification as a Special Needs Educator in British Columbia.

This program runs on alternate years with the Infant/Toddler Educator Post-Diploma Certificate program.

Infant and Toddler Educator Certificate (Post-Diploma)

Graduates of the Early Childhood Education program may choose to continue their studies for one semester so that they can develop the advanced skills and knowledge needed to work with infants and toddlers in licenced settings. Areas of learning include: infant and toddler development, critical reflection, creating developmentally appropriate learning experiences for infants and toddlers, the ECE's professional role and skills to support families. Students have the opportunity to connect theory and practice in two practica.

Completion of the post-diploma certificate satisfies the requirements of the ECE Registry Services for certification as an Infant/Toddler Educator in British Columbia.

Note: This program runs on alternate years with the Special Needs Educator Post-Diploma Certificate program.

Admission Requirements

Early Childhood Education Diploma admission

Students apply online and program application and admission information and requirements can be found at tru.ca/edsw/schools-and-departments/education/ece.

Educational Requirements

1. BC Grade 12, mature student status (or equivalent)
2. English 12/English 12 First Peoples with a minimum of 73% (or equivalent)

Specific Requirements

See the Admission Requirements package at the above link for specific requirements.

- Record of 25 hours of volunteer and/or work experience completed in a licensed group, preschool or childcare facility under the supervision of a certified Early Childhood Educator.
- Attend an Applicant Readiness Interview with the ECE faculty**.**

Following Acceptance to the Program

After acceptance into, and before commencement of the program, applicants will be required to submit:

- Authorization for criminal records review
- Physical examination form
- Student immunization record

Post-Diploma Certificates admission

Admission requirements for the Special Needs Educator Certificate and the Infant Toddler Educator Certificate are:

- Students must be graduates of the Early Childhood Education Diploma.
- Students who don't have an Early Childhood Education certificate or diploma from TRU *may* be required to take:
  1. First-year university-level (three credit) English if official transcripts indicate the course or equivalent has not been completed,
  2. ECED 2440 or equivalent,
  3. ECED 2490 or equivalent.

Prior Learning Assessment and Recognition (PLAR)

PLAR allows students to earn credit for post-secondary level knowledge regardless of where or how the learning occurred. Students may be assessed for prior learning for some of the courses in the ECE program. Applicants must meet all program prerequisites, and be admitted to the program prior to applying for PLAR. Please see the program coordinator for more information about PLAR.

Students may be granted credit for equivalent courses completed at other post-secondary institutions. Students are required to discuss the possibility of transfer credit with the program coordinator as soon as possible after being accepted into the program. Supplementary information may be required in order to determine if advanced standing can be granted.

Laddering into other Programs

Students who have completed the ECE Diploma may choose to continue studying for one additional semester and receive the Infant/Toddler Educator Post-Diploma Certificate, or the Special Needs Educator Post-Diploma Certificate. Graduates of the diploma program can also ladder into the Bachelor of Education (BEd Elementary) or Bachelor of Interdisciplinary Studies (BIS) or Bachelor of Social work (BSW).

Practicum Costs

Students are required to bear the costs of travel to and from practicum placements. All attempts will be made to accommodate students without vehicles in practicum sites that are accessible by local public transportation.

Program Requirements

Year 1 - Semester 1: September - December	
ECED 1200	Practicum 1: Developing Relationships with Children (L)
ECED 1320	Child Guidance (L)
ECED 1340	Interpersonal Relations – Communications
ECED 1350	Introduction to Program Planning (L)
PSYC 2130	Introduction to Developmental Psychology 1: Childhood and Adolescence
Year 1 - Semester 2: January -April	
ECED 1300	Practicum 2: Program Planning for Young Children (L)
ECED 1330	Child Health
ECED 1360	Curriculum Development (L)
ECED 1440	Helping Interactions
PSYC 2230	Introduction to Developmental Psychology 2: Adulthood and Aging
Year 2- Semester 3: September - December	
ECED 2200	Practicum 3 – Demonstration (L)
ECED 2350	Advanced Program Development (L)
ECED 2440	Working with Families
ECED 2490	Administration of Early Childhood Education Centres
ENGL 1100	Introduction to University Writing
Early Childhood Education Diploma British Columbia Certificate: Early Childhood Educator (after 500 hours experience)	
Post-Diploma Certificate	
Special Needs Educator – Alternate Years	
Year 2- Semester 4: January – April	
ECED 3300	Field Programming for Individual Children (L)
ECED 3310	Child Growth and Development – Individual Differences (L)
ECED 3350	Programming for Individual Children (L)
CMNS 2290	Technical Communication
Infant and Toddler Educator – Alternate Years	
Year 2- Semester 4: January – April	
ECED 3400	Infant and Toddler Field Experience (L)
ECED 3410	Development and Care of Infants and Toddlers (L)
ECED 3450	Program Development for Infants and Toddlers (L)
CMNS 2290	Technical Communication

Program Promotion

In order to be eligible for an Early Childhood Education diploma or certificate, students must successfully complete all of the program courses. Students must meet course prerequisite requirements to progress in the program.

Students who receive a failing grade in a course for not meeting objectives related to the professional principles or professional conduct, may be refused re-admission to the program.

ECE Program Contact

edadvising@tru.ca | 250-377-6048
Early Childhood Education Program Information

Human Service Diploma

The Human Service Diploma is a two-year (four semester) program. Graduates receive a Human Service Diploma (HSD).

Learning Options

Full-time or part-time study is available. Part-time study must be discussed with the program coordinator prior to applying.
On-campus: The Human Service diploma program is available at both the Kamloops and Williams Lake campuses. Details on the Williams Lake program can be found here: Human Service Diploma - Williams Lake.
Program start date: Fall semester

Program Overview

The Human Service Diploma prepares students for careers with government or non-profit agencies that provide support and assistance to individuals coping with economic disadvantage, mental health issues, developmental, gender and diversity issues, as well as challenges such as addiction, family change and involvement with the justice system.

Admission Requirements

Year one entry

General Requirements

1. Canadian citizenship or permanent resident status
2. 19 years of age prior to start of year 1 of the program
3. Two letters of reference
4. English 12 /English 12 First Peoples with a 73% or equivalent

The following documentation is necessary to verify admission requirements:

- Official transcripts of previous secondary and post-secondary educational record.
- Proof of Canadian citizenship or permanent resident status if applicant not born in Canada.
- LPI (Language Proficiency Index) results, if required.
- Two letters of reference. At least one letter of reference must be from employers, volunteer supervisors or community professionals that comment on the applicant's suitability for, or performance in human service work. Reference letters must be less than two (2) years old at date of application to the program and must include the referee's phone number.
- Orientation Session.
  It is recommended that successful applicants attend an orientation session.

Criminal Record Check

Applicants will be required to undergo a criminal record check for fieldwork purposes once accepted to the program. Practicum agencies reserve the right to refuse acceptance of practicum students with a criminal record. This may impair a student's ability to successfully complete the Human Service Program.

Applicants are asked to refer to the admission information package on the web at tru.ca/programs/catalogue/human-service for further details.

Year two entry

The following requirements are for **new applicants to Year Two** of the Human Service Diploma **only**.

Students who have successfully completed Year One of the TRU Human Service Diploma and are continuing on to complete Year Two **do not** need to meet the following entry requirements**.**

Applications will be accepted for Year Two entry into the Human Service Diploma program based on the availability of remaining seats in the program. Priority will be given to qualified students currently enrolled in Year One of the TRU Human Service Diploma program.

Educational requirements
Successful completion of:

- Education Assistant and Community Support Certificate
- Early Childhood Education Diploma
- Social Services Certificate
- Other related certificates considered on an individual basis.
- Minimum TRU GPA of 2.67 (B-) or equivalent from another college or university in an equivalent program of study
  If an equivalent program of study was taken at a university or college other than TRU, an official transcript and a copy of certificate issued must be submitted.

Documentation requirements

- Official transcripts of all previous secondary and post-secondary educational record.
- Proof of Canadian citizenship or permanent resident status required if applicant not born in Canada.
- Two letters of reference. At least one letter of reference must be from employers, volunteer supervisors or community professionals that comment on the applicant's suitability for, or performance in human service work. Reference letters must be less than two (2) years old at date of application to the program and must include the referee's phone number.

It is recommended that applicants have approximately 200 hours of experience (volunteer or paid) related to the human service field.

Applicants who are currently in the TRU Social Services (OL), Education Assistant and Community Support and/or Early Childhood Education Programs who meet the GPA minimum requirement of 2.67 do not need to resubmit references.

Application readiness
Applicants are asked to ensure that they meet all the admission requirements beforehand. Because assignments will be requested in typed format, basic keyboarding skills/computer literacy skills prior to entry are strongly recommended.

Transfer to TRU

Students may be granted credit for equivalent courses completed at other accredited post-secondary institutions or at TRU. Students must discuss the possibility of transfer credit with the human service program coordinator or advisor as soon as possible after being accepted into the program.

Field Experience

The Human Service Diploma program includes a field work practicum in both years. Year one is a community service learning model where students work in teams on a community project. In year two, students focus on individual practice. Practicum placements are offered in many different service areas, such as non-profit social service agencies, government agencies, community centres, correctional or residential programs and women's agencies. Students must have a cleared criminal records check **before** being placed in a practicum.

Program Requirements

Human Service Diploma required courses:

Year 1	
ENGL 1100	Introduction to University Writing
HUMS 1540	Introduction to Interpersonal Communications and Helping Relationships
HUMS 1560	Introduction to the Family in Human Service Practice
HUMS 1580	Introduction to Professional Human Service Practice
HUMS 1600	Human Service Field Work Education
HUMS 1770	Intro to Human Service Practice with Indigenous Communities
CYCA 2000	Introduction to Professional Foundations of Child and Youth Care
CYCA 2500	Special Topics
Arts Electives	**Two electives** –PSYC or SOCI or other arts courses approved by the program coordinator
Year 2	
HUMS 2060	Introduction to Social Work Practice
HUMS 2530	Professional Communication and Helping Relationships
HUMS 2220	Theoretical Foundations in Human Service Practice
HUMS 2600	Human Service Field Education
HUMS 2500	Special Topics
HUMS 2120	Introduction to Social Welfare in Canada
HUMS 3530	Advanced Communication Skills to Facilitate Change
HUMS 3570 or CYCA 2620	Introduction to the Law Introduction to Working with Groups in Human Service Practice
ENGL	One course chosen in consultation with the program coordinator
One Elective	One elective chosen in consultation with the program coordinator

Offer of Acceptance

Students are notified by Enrolment Services once they are accepted into the program and at that time they will receive further information regarding course registration and the tuition deposit fee.

Students should be prepared to pay a $500 tuition deposit when they accept their seat in the program. The $500 fee will be applied as a deposit toward tuition, with the balance of fees owing due prior to the start of the program.

Program Promotion

The Human Service Diploma will be granted upon successful completion of all program courses. Some fall semester courses are prerequisites for courses in the winter semester. In the event a student receives a failing grade in a fall semester course, they may advance to winter semester courses, except those with prerequisite requirements that have not been met.

Students must receive a grade of C or higher in Field Work courses in order to graduate.

Graduation
Students successfully completing all course requirements will be awarded a TRU Human Service Diploma. See Program Requirements.

Laddering credit into other programs

Graduates from the Human Service Diploma may ladder credits into TRU's Bachelor of Social Work program. Prospective BSW applicants should contact the Social Work Department at 250-852-7181 or email socialwork@tru.ca for more information.

Human Service Diploma Program Contact

humanservice@tru.ca |250-852-7181 or call toll free: 1800-663-1663 x7181

Human Service Diploma Program Information

Education Assistant and Community Support Certificate

The Education Assistant and Community Support Certificate (EACS) is an eight month employment-ready program. Graduates receive an Education Assistant and Community Support Certificate.

Learning Options

Full-time study: The Education Assistant and Community Support Certificate program requires full-time attendance for two semesters (eight months).

On-campus: The certificate program is offered on the Kamloops campus beginning in the fall semester. A selection of courses are offered at the Williams Lake campus.

Admission is limited to 24 students.

Program Overview

The Education Assistant and Community Support Certificate prepares students for careers that provide support and service to children, youth or adults with exceptionalities. Students are prepared to work as an education assistants in British Columbia School Districts or in communities as support workers.

Field Experience

The Education Assistant and Community Support Certificate program includes a field work practicum in the winter semester. Practicum placements are offered in many different schools and community agencies.

Admission Requirements

Educational Requirements

1. BC Grade 12 or equivalent or mature student status.
2. English 12/English 12 First Peoples with a minimum of 73% or equivalent.

General Requirements

- Canadian citizenship or permanent residence status.
- Applicants must be 18 years of age as of December 31 of their fall semester.
- Two letters of reference (forms are included in the Education Assistant and Community Support Program Admissions Requirements Package).
- Immunization record

The Education Assistant and Community Support Program Admissions Requirement Package is available online at:

tru.ca/programs/catalogue/education-assistant-and-community-support

Criminal record check—applicants will be required to undergo a criminal record check for practicum purposes once accepted to the program.

Offer of Acceptance

Students are notified by Enrolment Services when they are accepted into the program and will receive registration information once admittance has been finalized.

Once admitted, students should be prepared to pay a tuition deposit fee. The $500 tuition deposit fee will be applied as a deposit toward tuition, with the balance of fees owing due prior to the start of the program.

Transfer to TRU

Transfer credit may be granted for equivalent courses completed at other recognized post-secondary institutions. Students must discuss the possibility of transfer credit with the Program Coordinator as soon as possible after being accepted into the program.

Program Requirements

Required Courses:

Year 1 – Fall Semester	
ENGL 1100	Introduction to University Writing
EDCS 1580	Introduction to Professional Human Service Practice
EDCS 1640	Foundations of Education Assistant and Community Support Work
EDCS 1660	Health Care Principles
PSYC 2130	Introduction to Developmental Psychology: Childhood and Adolescence
Year 1 – Winter Semester	
EDCS 1680	Field Work
EDCS 1540	Interpersonal Communications and Helping Relationships
EDCS 1650	Understanding Behaviour: Learning for Independence
EDCS 1750	Alternate and Augmentative Communication
PSYC 2230	Introduction to Developmental Psychology: Adulthood and Aging

Program Promotion

Students successfully completing all course requirements will be awarded a TRU Education Assistant and Community Support Certificate.

Some fall semester courses are prerequisites for courses in the winter semester. In the event a student receives a failing grade in a fall semester course, they may advance to winter semester courses, except those with prerequisite requirements which have not been met. Students must receive a passing grade in EDCS 1580 in order to move on to EDCS 1680.

Students must receive a grade of C or higher in Field Work (EDCS 1680) in order to graduate.

Laddering credit into other programs

Graduates from the Education Assistant and Community Support Certificate may ladder directly into Year Two of the Human Service Diploma program. Admission is conditional on a GPA of 2.67 (B-).

Program Contact

humanservice@tru.ca | 250-852-7181
EACS Program Information

First Nations Language Teachers: Developmental Standard Term Certificate (DSTC)

The DSTC First Nations Language Teachers program is a three-year, 92 credit program. Graduates who are acknowledged by a local First Nations Language Authority as proficient in the language will be considered eligible to apply for the Developmental Standard Term Certificate (DSTC) issued by the Teacher Regulation Branch of the BC Ministry of Education.

Learning Options

Full-time or part-time study: Students are encouraged to complete the program on a full-time basis. However, students may be admitted to complete the course work components of the program on a part-time basis. Applicants wishing to complete the program on a part-time basis will be considered under the same admission criteria as those applying for the program as full-time students. All practica—except Year 1—must be completed on a full-time basis.

On-campus: The program is offered on the Kamloops campus. A limited number of courses may also be offered at the Williams Lake and Lillooet campuses.

Students usually enter the program at the beginning of the fall semester.

Program Overview

The TRU Faculty of Education and Social Work offers the following First Nations Language Teachers programs:

- DSTC First Nations Language Teachers program (Full-time and part-time options available)
- First Nations / Aboriginal Language courses may be taken individually by all TRU students to meet second Language requirements in a degree program.

The DSTC First Nations Language Teachers program offers a combination of on-campus study, First Nations language and cultural immersion, and extensive school practicum experiences in a First Nations language setting.

Graduates gain the skills they need to pursue a career in teaching First Nations language and culture education. The DSTC provides opportunities for students to earn Teacher Regulation Branch certification to teach First Nations Language and Culture in public schools, private Schools, First Nations schools and community.
tru.ca/hse/education/fnlt.

Licence to Practice

Completion of the DSTC First Nations Language Teachers Program satisfies the requirements of the Teacher Regulation Branch to teach in a private school, First Nations School, public school or in the community.

Admission Requirements

Applications online at: EducationPlannerBC

Registration and Payment of Fees:
Students are notified in writing by Enrolment Services of acceptance into the DSTC First Nations Language Teacher program.

Selection Process
When selecting students for the DSTC First Nations Language Teacher program, considerations are academic background and performance.

Criminal Record: Students entering first year are required to complete a form verifying that they do not have a criminal record prior to first practicum experience. The form is available to students from the Program Coordinator following acceptance to the program.

Applicants who have completed educational requirements at other colleges or universities are considered on the same basis as students who have attended TRU. Students intending to transfer to TRU from other BC institutions should check the BC Transfer Guide (http://bccat.ca) to ensure that courses taken will transfer. Students will be assessed individually.

Prior Learning Assessment and Recognition (PLAR)

PLAR is a concept that permits students to earn credit for post-secondary level knowledge regardless of where or how the learning occurred. Students may be assessed for prior learning for some of the courses in the DSTC First Nations Language Teacher program including a First Nations language. Applicants must be admitted to the program prior to applying for PLAR. For more information about PLAR, please see the Program Coordinator.

Transfer credits

Students may be granted credit for equivalent courses completed at other post-secondary institutions. Students are strongly advised to discuss the possibility of transfer credit with the Program Coordinator as soon as possible. Supplementary information may be required in order to determine if advanced standing can be granted.

Laddering into other programs

Students who have completed the DSTC First Nations Language Teachers program may choose to continue studying and may be eligible to ladder into the Bachelor of Education (BEd) program.

Practicum Costs

Students are required to bear the costs of travel to and from practicum placements. All attempts will be made to accommodate students without vehicles in practicum sites that are accessible by local public transportation.

Program Requirements

Educational Requirements must include appropriate levels of:

- 6 credits of English, including both literature and composition
- 3 credits mathematics (not statistics)
- 3 credits science *in one of the following areas – biology, chemistry, physics, physical geography, geology/earth science, environmental studies and astronomy*
- 3 credits of history or geography
- 6 credits of Canadian Studies taken in humanities or social sciences (may be included in 4 and 5 above)

Required Courses

Course	Description	Credits
FNLG 1000	Introduction to First Nations Language 1	3
FNLG 1010	First Nations Language Immersion 1	3
ENGL 1100	Introduction to University Writing	3
HIST 2020	Native History of Canada	3
ENGL 2410	Indigenous Literatures in Canada (or equivalent)	3
FNLG 1100	Introduction to First Nations Language 2	3
FNLG 1110	First Nations Language Immersion 2	3
ENGL 1110	Critical Reading and Writing	3
EDTL 1510	First Nations Language Teaching Methodology 1	3
EDPR 1800	First Nations Language Teaching Practicum 1	1
Elective	Science Elective	3
FNLG 2000	First Nations Language Structure and Analysis I	3
FNLG 2010	First Nations Language Immersion III	3
MATH 1900	Principles of Mathematics for Teachers	3
EDTL 3100	Teaching and Learning I	3
FNST 2200	First Nations Oral Traditions	3
EDUC 270	Language Acquisition – Theory and Practice (NVIT)	3
FNLG 2100	First Nations Language Structure and Analysis 2	3
FNLG 2110	First Nations Language Immersion 4	3
FNST 2300	First Nations Language and World View	3
EDPR 2800	First Nations Language Teaching Practicum 2	2
ELECTIVE	Elective	3
FNLG 3000	First Nations Language Immersion 5	3
EDLL 3100	Language and Literacy 1	3
EDFN 4200	Teaching First Nations Children	3
EDPY 3100	Child Development and Teaching	3
EDLL 3920	Innovative Language Teaching Practices for Aboriginal Language Classrooms	3
EDUC 260	Innovative Teaching and Planning (NVIT)	3
EDPR 3800	First Nations Language Teaching Practicum 3	2
FNLG 3100	First Nations Language Immersion 6	3
EDLL 3200	Language and Literacy 2	3
EDTL 3200	Teaching and Learning 2	3
EDPR 3900	First Nations Language Teaching Practicum 4	3

Course offerings and course rotations may vary.

Program Contact

jkelly@tru.ca | 250-852-7663
First Nations Language Teachers Program Information

Teaching English as a Second Language Certificate

A one-semester post-baccalaureate program. Graduates receive a Teaching English as a Second Language (TESL) certificate.

Learning Options

Full-time or part-time study: Students may complete the program full-time in one semester or part-time over a maximum of three semesters. Courses are generally scheduled in the late afternoon and early evening. This program has a limited seat capacity.
On-campus: Courses are offered at the Kamloops campus and certified by TESL Canada.
Program start dates: Students may enter the program in the fall or summer semester (pending enrolment).

Program Overview

The TESL program is a 15-credit post-baccalaureate program that can be completed in one semester full-time or done part-time over multiple semesters. The five courses offer a balance of theoretical and practical knowledge. The 20-hour practicum (10 hours of observation and 10 hours of teaching) provides the opportunity for students to apply what they are learning to real classes under the individual mentorship of a professional EAL teacher.

In the program, students learn effective lesson planning, and understanding of the key principles in language teaching, effective techniques for teaching speaking, listening, reading and writing as well as grammar, vocabulary, and pronunciation.

Admission Requirements

- Completion of a bachelor's degree from an English speaking university with a GPA 2.33 or equivalent.
- Completion of a bachelor's degree from a non-English speaking university will require the TOEFL score of 88 (iBT) with no section below 20, IELTS Academic 6.5+ with a minimum score of 6.5 in each area or TRU accepted equivalent
- Submission of official transcripts
- Admission interview

Program Requirements

The program consists of five courses:

TESL 3010	Curriculum and Instruction
TESL 3020	Pedagogical Grammar
TESL 3030	Intercultural Communication Studies
TESL 3040	TESL Techniques
TESL 3050	TESL Practicum
Total 15 Credits	

Successful completion of all courses, and successful completion of the practicum with a minimum B- are required to complete the program.

Part-time students are expected to complete the program within one year unless they have permission from the program coordinator.

Students requesting advanced placement must comply with the prior learning requirements of Thompson Rivers University.

TESL Program Contact

Phone 250-371-5728 | TESL Program Information

English as a Second Language | Academic Preparation

Learning Options

Full-time study or part-time study
On-campus: Courses are offered at the Kamloops campus.
Program start dates: Students may enter the program in September, January, or May.

Program Overview

The English as a Second Language (ESL) program is designed to provide specific language training appropriate for English as second language speakers who intend to proceed to post-secondary study. Successful completion of the program means that a student has a sufficient level of English language proficiency to successfully undertake studies at English speaking colleges or universities. The program provides five levels of study. Courses at each level focus on reading, grammar, writing, speaking and listening skills, and students may also choose from a number of electives aimed at further developing language competencies.

Students whose first language is not English are required to take appropriate ESL courses (excepting those who satisfy prerequisites for ENGL 1100).

Admission Requirements

Students are required to take the English Placement Test (Accuplacer) to determine appropriate placement. The Accuplacer is given several times a year; contact the Assessment Centre by email assess@truc.ca or phone 250-828-5470.

If a student already has a TOEFL or other test score, students may elect to enter ESL or academic courses without the TRU English Placement Test using the following scores to guide placement:

English Language Proficiency Requirements						
TRU Placement	**TOEFL iBT**	**TOEFL paper-based**	**IELTS**	**MELAB**	**CanTEST**	**CAEL**
Direct entry to academic programs	88+ with no section below 20	570+ TWE 4.5+	6.5+ with no bands below 6.0	81+	4.5+ with no component score below 4.0	Overall 70+ No subtest below 60
Direct entry into Level 5 ESL	80+	550-569 TWE 4.0+	6.0+ with no band below 5.5	77+	4.0+ with no component score below 4.0	Overall 60+ No subtest below 50
Direct entry into Level 4 ESL	71+	530-549	5.5+ with no band below 5.0	74+	4.0+ with no component score below 3.5	Overall 50+ No subtest below 40
Direct entry into Level 3 ESL	61+	500-529	5.0+	69+	3.5+	Overall 40+

Level 1: are considered full-time ESL students. The curriculum consists of five core courses (one semester) of full-time ESL study. On successful completion, students proceed to Level 2.

Level 2: are considered full-time ESL students. The curriculum consists of five core courses (one semester) of full-time ESL study. On successful completion, students proceed to Level 3.

Level 3: are considered full-time ESL students. The curriculum consists of five core courses (one semester) of full-time ESL study. On successful completion, students proceed to Level 4.

Level 4: consists of four core ESL courses. Students may take one ESL elective or academic course.

Level 5: consists of two core ESL courses. Students may take three academic courses or ESL electives (up to 9 credits).

No core ESL courses may be deferred without written permission of the ESL chairperson.

Program Regulations

1. For the purposes of these regulations, a student must have passed all courses at one ESL level to be considered to be in the next level.
2. Students should consult their Academic Advisor about additional requirements for entry into specific post-secondary courses or programs.
3. ESAL 0570 and 0580 are prerequisite courses for English 1100 and English 1110 as well as any courses requiring English 12/English 12 First Peoples.

Program Requirements

Level 1	
ESAL 0120	Basic Grammar
ESAL 0130	Basic Integrated Language Skills
ESAL 0150	Basic Oral Communication
ESAL 0170	Basic Reading Skills
ESAL 0180	Basic Writing Skills
Level 2	
ESAL 0220	Pre-Intermediate Grammar
ESAL 0230	Pre-Intermediate Integrated Language Skills
ESAL 0250	Pre-Intermediate Oral Communication
ESAL 0270	Pre-Intermediate Reading Skills
ESAL 0280	Pre-Intermediate Writing Skills
Level 3	
ESAL 0320	Intermediate Grammar 1
ESAL 0340	Intermediate Grammar 2
ESAL 0350	Intermediate Oral Communication
ESAL 0370	Intermediate Reading and Study Skills
ESAL 0380	Intermediate Composition

Level 4	
ESAL 0420	Advanced Grammar
ESAL 0450	Advanced Oral Communication
ESAL 0470	Advanced Reading and Study Skills
ESAL 0480	Advanced Composition
Level 5	
ESAL 0570	Academic Reading Skills
ESAL 0580	Academic Writing
Elective Courses	
ESAL 0820	Intermediate Listening
ESAL 0860	Intermediate Vocabulary for Academic English
ESAL 0880	Intermediate Pronunciation
ESAL 0920	Advanced Listening Skills
ESAL 0950	Advance English for Business Communication
ESAL 0960	Advanced Vocabulary for Academic English
ESAL 0980	Advanced Pronunciation
SRCL 1000	Introduction to Community Service-Learning

The ESL Program, comprised of core and elective course offerings, grants the following certificates:

ESL Foundations	Satisfactory Completion of: ESAL 0220, 0230, 0250, 0270, 0280 *
ESL Intermediate	Satisfactory Completion of: ESAL 0320, 0340, 0350, 0370, 0380 *
ESL Academic Preparation	Satisfactory Completion of: ESAL 0420, 0450, 0470, 0480 and 1 ESAL elective course *
ESL Advanced Academic Preparation	Satisfactory Completion of: ESAL 0580, 0570, 1 ESAL elective course and 2 additional ESAL elective or academic courses.

Eligible students must apply to receive these certificates. More information and an application form can be found at ESAL Certificates.
* Students may use up to two (2) courses at a higher level to qualify for this certificate.

Bridge-Out Certificates (combined ESL and content area certificates)

For all "Bridge-Out" Certificates, students must satisfy any and all course prerequisites. Contact an Academic Advisor at internationaladvising@tru.ca for details.

English as a Second Language with an Introduction to Business
Satisfactory completion of 21 credits:

ESAL 0420	Advanced Grammar
ESAL 0450	Advanced Oral Communication
ESAL 0470	Advanced Reading and Study Skills
ESAL 0480	Advanced Composition
Plus	One ESAL Elective
Plus	6 credits in SOBE courses (advisor consult recommended)

English as a Second Language with an Introduction to Arts
Satisfactory completion of 21 credits:

ESAL 0420	Advanced Grammar
ESAL 0450	Advanced Oral Communication
ESAL 0470	Advanced Reading and Study Skills
ESAL 0480	Advanced Composition
Plus	One ESAL Elective
Plus	6 credits in any arts courses

English as a Second Language with an Introduction to Fine Arts
Satisfactory completion of 21 credits:

ESAL 0420	Advanced Grammar
ESAL 0450	Advanced Oral Communication
ESAL 0470	Advanced Reading and Study Skills
ESAL 0480	Advanced Composition
Plus	One ESAL Elective
Plus	6 credits in any fine arts courses

English as a Second Language with an Introduction to Sciences
Satisfactory completion of 21 credits:

ESAL 0420	Advanced Grammar
ESAL 0450	Advanced Oral Communication
ESAL 0470	Advanced Reading and Study Skills
ESAL 0480	Advanced Composition
Plus	One ESAL Elective
Plus	6 credits in any science courses

ESL Program Contact

Office located in the Old Main building, room 2465
250-371-5728 | Read more ESL Program Information

University and Employment Preparation Programs

University Preparation courses offer adult learners the opportunity to complete prerequisites for admission into a diverse range of career, vocational and academic programs or to complete several Adult Basic Education diplomas, including the BC Adult Graduation Diploma (the equivalent to high school completion). Courses in biology, chemistry, computing, English, math, physics, science, and student success are designed for adult learners and delivered in small, student-centred classes through teaching methods that accommodate students' life experience and different learning styles.

University Preparation Courses

Intermediate Level (Grade 10 Equivalency)	
EDCP 0400	Education and Career Preparation 2 *
ENGL 0400	Basic Language Skills
COMP 0400	Basic Introduction to Computers *
MATH 0400	Basic Math Skills
MATH 0410	Algebra 1
Advanced Level (Grade 11 Equivalency)	
BIOL 0500	General Biology
CHEM 0500	Foundations of Chemistry 1
COMP 0500	Introduction to Microcomputers*
ENGL 0500	Developing Writing Skills
MATH 0510	Algebra 2
MATH 0520	Advanced Foundations of Mathematics 1
MATH 0550	Business and Technical Mathematics
NAST 0500	Introduction to First Nations Studies*
PHYS 0500	Introduction to Physics
PSYC 0500	Introduction to Psychology*
SINC 0500	Foundations of Science
STSS 0500	An Introduction to Student Success
Provincial Level (Grade 12 Equivalency)	

BIOL 0600	Human Biology
CHEM 0600	Foundations of Chemistry 2
COMP 0600	Introduction to Programming*
ENGL 0600	Literature and Composition
ENGL 0620	Composition and Studies in Indigenous Literature
MATH 0600	Pre-calculus 1
MATH 0610	Pre-calculus 2
MATH 0630	Provincial Pre-Calculus
MATH 0650	Provincial Foundations of Mathematics
NAST 0600	An Overview of Major Issues in First Nations Studies (upon availability)*
PHYS 0600	Introduction to Physics 2

Courses marked with an * are available on the Williams Lake campus and/or regional campuses only.

Note: Students can take individual courses listed above without pursuing a certificate. These courses may be taken in conjunction with career, technical, trades or university courses.

Certificate Programs in Adult Basic Education

Adult Basic Education Intermediate Certificate

This certificate represents completion of a grade 10 equivalency. Four courses are required:

Required:	
MATH 0400	Basic Math Skills
ENGL 0400	Basic Language Skills
At least two of the following:	
COMP 0400	Basic Introduction to Computers
EDCP 0400	Education and Career Preparation 2
SINC 0400	Introduction to Science

For further information call the University and Employment Preparation Department. The Intermediate Certificate is only granted in regional programs.

Adult Graduation (Adult Dogwood) Diploma

This Diploma represents completion of the adult secondary graduation program. Students must complete five courses to be eligible for the Diploma.

Required:	
MATH 0510, 0520, 0550 or higher	Algebra II, Foundations of Mathematics I, or Advanced Business and Technical Mathematics
ENGL 0600, 0620 or higher	Literature and Composition, or Composition and Studies in Indigenous Literature
Plus:	
three Provincial Level courses or higher OR one of PSYC 0500, STSS 0500, or NAST 0500 and two Provincial Level courses or higher	

Note: To be eligible for the Adult Graduation (Adult Dogwood) Diploma, a person must be 18 years or older in that calendar year. A 17 year old who has been out of school for at least a year may be admitted to an adult program with approval form.

Note: Courses from the BC School System may be counted toward the diploma; however, at least three courses must be taken as an adult.

University and Employment Preparation Services

The University and Employment Preparation Centre, located in OM 2551, offers free tutorial support to all students enrolled in any of our prep courses or any of the distance education prep courses. The Centre provides support in the subject areas of Math, English, Chemistry, Physics and Biology. The Centre provides a quiet and informal setting for individual study or group work. This service is available on various evenings/days throughout the week.

UEPrep Program Contact

Office located in the Old Main building, room 2465.

Phone: 250-828-5290 | UEPrep Program Information

Education and Skills Training Certificate Program (ESTR)

The Education and Skills Training (ESTR) program enables students with diverse abilities to develop skills, knowledge, and experience required for future employment.

Certificates are offered in: Career Exploration, Kitchen Assistant, and Retail Assistant. *Certificate offerings may vary annually.*

All certificate program areas run September to May and involve a combination of classroom study, hands-on learning, and work experience. Students complete academic and employment skills classes and train in areas on campus and with local businesses. Students are integrated into normalized working environments for the work experience portion of the program.

Interested students should contact the program directly for further information.

Education and Skills Training Program (ESTR)
Education and Skills Training Program (ESTR) Williams Lake

ESTR Program Contact

estr@tru.ca | 250-828-5290
ESTR Program Information

Faculty of Law

Juris Doctor (JD)

A three-year, full-time JD degree program taught by outstanding legal academics in the TRU Faculty of Law, one of Canada's newest law schools. Understand the law, master the realities of practice and be prepared to serve the profession of law and the interests of justice.

Program Overview

At TRU Law, the first year curriculum introduces students to fundamental skills and courses that are necessary for students to acquire a solid foundation in the law. In second and third years, students take a selection of advanced legal courses, which are supplemented with a broad range of elective courses. TRU Law faculty members offer courses that reflect their expertise and research interests, which expose students to a wide and varied range of legal concepts and disciplines. Students may also undertake a research project directed by one of our faculty members to further explore a legal issue in depth. Students also have the opportunity to spend a semester or part of their summer studying law abroad on exchange with one of our international partners.

Courses in the program involve extensive interaction with professors and students. For a full listing of available courses, professors and instructors, please visit tru.ca/law.

Further information about student life in the law school can be found by visiting trusls.org, or to schedule a tour of the school with a student as your guides

Applying to TRU Law

Applicants seeking to apply to the JD Program are encouraged to visit the TRU law website at tru.ca/law for program updates and answers to frequently asked questions. Potential applicants are invited to make arrangements to visit our law school by emailing lawadmissions@tru.ca.

Full details on the application process and requirements are available on the law website at law admissions. Please ensure that you check the website for the most up-to-date information.

Each application must include the following:

- A complete online application – students apply online, and pay the application fee at Apply for Admission;
- When completing the online application, please ensure that you provide your supplemental information where requested, including your CV or resumé;
- Official transcripts from all post-secondary institutions attended;
- Letters of reference, forwarded directly by the referees to the TRU Law Admissions Office at lawadmissions@tru.ca ;
- Your LSAT score (the Law Schools Admissions Test (LSAT) is written by applying directly to the Law Schools Admissions Council (LSAC) – see their website at lsac.org for test date details and authorized test taking sites;
- Any other supplemental documents that are required by your selected category of admission.

Admission Requirements

There are three categories of Admission available to applicants:

- Regular Applicant
- Special Consideration Applicant
- Indigenous Canadian Applicant

Applicants select one of the above categories. In all categories, applicants are required to provide **all** of the supplemental information. Applications will only be considered for admission when all supplemental requirements have been received.

There are no quotas currently attached to any of the categories. The selection of which category to apply in is the sole choice of the applicant. Each application is considered individually and on its merits.

Regular Category Applicant

To be eligible to apply in this category, students must have:

- Obtained an undergraduate degree in an approved course of studies from a degree-granting institution; or
- Successfully completed the first three years (minimum 90 credits) or more of an approved course of studies leading to an undergraduate degree from a degree-granting institution; or
- Successfully completed the first two years of studies (60 credits), leading to an undergraduate degree at an approved degree-granting institution, and be currently enrolled in the third year of the degree program. (An offer of admission will be conditional on successful completion of the degree in the third year of study by June 30th of the academic year in question).

The vast majority of students admitted to TRU Law will have an undergraduate degree (with at least 90 course credits), however, students with 60 course credits in their undergraduate degree are eligible to apply for admission.

Special Consideration Applicant

In addition to transcripts, their LSAT score, letters of reference, CV or resumé a completed application with application fee, and a personal statement, applicants may elect to provide additional information to the committee pertaining to their application in this category. This additional information is in support of special factors that may have impacted upon your GPA, your pursuit of an undergraduate degree, or any other factors that you feel the Admissions Committee should take into account in assessing your application. Additional documents may be added to your application in this category. Applicants applying in this category might include those with disability or special needs, financial disadvantage, age (generally over 30 years of age), membership in an historically disadvantaged group, residency in a small and/or rural remote community, major illness of the applicant or a family that affected academic performance or any other factors that the applicant wishes the Admissions Committee to consider.

Indigenous Canadian Applicant

Applicants who self-identify as Indigenous, may apply in either the Regular or the Indigenous Canadian applicant category. Applicants in this category may be admitted based on LSAT score and past academic performance, but may also receive consideration with particular attention to personal history as it relates to past academic performance, connections to Indigenous communities and organizations, employment history, and other factors and indicators of potential for future academic success. Applicants in this category should ensure such factors are described and discussed in the "statement of interest" and "additional statement" portions of their applications.

TRU Law may make successful applicants in the Indigenous category an unconditional offer of admission, or may require those applicants to successfully complete the NLC Summer Program before attending TRU Law. Students who successfully complete the NLC Property Law course usually receive credit for Property Law toward their JD at TRU Law.

Because of the program's strong history of preparing Indigenous students for success, all students admitted in the Indigenous category are encouraged to attend the NLC Summer Program, whether admitted conditionally or unconditionally. www.usask.ca/plsnp

Program Requirements

First-Year Curriculum **Required Courses: The following 9 courses for a total of 36 credits**	
LAWF 3010	Constitutional Law
LAWF 3020	Legal Perspectives
LAWF 3030	Contracts
LAWF 3040	Legislation Administration and Policy
LAWF 3050	Property
LAWF 3060	Fundamental Legal Skills (FLS)*
LAWF 3070	Torts
LAWF 3080	Crime: Law and Procedure
LAWF 3090	Dispute Resolution 1 - Interviewing and Counselling
* During the winter semester in the FLS course, students prepare for their first year moot. Students prepare a written submission and are given the opportunity to advocate and hone their oral advocacy and written skills during the moot. The moot is presented before a panel of judges and mimics proceedings in a traditional courtroom.	

Second and Third Year Curriculum

When students have successfully completed first-year, they are admitted to the upper-year curriculum (years two and three). In the upper-year curriculum students may select from a wide range of electives—they are also required to complete a number of required courses in order to graduate.

The listing of required and elective courses, together with their course credit weighting can be found at tru.ca/law/current-students/courses.

Students are required to satisfactorily complete 30 credits in each of their second and third years of study to obtain the minimum of 96 credits required to complete the JD degree. Course descriptions are available online through the course catalogue. The Law Course Timetable details courses being taught in the current academic year.

Second and Third Year Required Courses	
LAWF 3800	Business Associations
LAWF 3900	Administrative Law
LAWF 3910	Civil Procedure
LAWF 3920	Evidence
LAWF 3930	Ethical Lawyering
LAWF 3940	Dispute Resolution 2 – Negotiation and Mediation
LAWF 3950	Advanced Legal Research
LAWF 3960	Dispute Resolution 3 – Adjudication
3 credits in any international law course or study abroad courses, as approved by the Faculty are required in Year 2 or Year 3.	
33 credits in 3000 or 4000 level LAWF electives	
Students are also required to complete a major research paper.	

For full details on the required research paper and international law course requirement please see tru.ca/law/current-students/policy.

Forms required for: Deferred Exams, Directed Research, Reappraisal of Final Grade, Request for Reappraisal, and the Upper Year Writing Requirement can also be found here: tru.ca/law/current-students/policy.

Graduation Requirements

Students graduate with a Juris Doctor upon completion of 96 course credits along with all other program requirements. Applications to graduate and attend Convocation ceremonies are made to the TRU Registrar tru.ca/graduation.

Students are required to have a minimum overall GPA of 1.67.

Once attaining a JD, those students seeking to enter the legal profession and practice law will apply to the Law Society in the province in which they wish to be licensed. This process is governed by the respective law society in each province that regulates admission requirements and "articling". For more information about articling, practicing Law, and other career opportunities for JD graduates, visit our Career Services page: tru.ca/law/current-students/Career_Services

Regulations and Policies

All JD students are governed by TRU Faculty of Law policies and regulations and they are strongly encouraged to familiarize themselves with these policies at tru.ca/law/current-students/policy. For more information about the academic policies and regulations contact the office of the Associate Dean in the Faculty of Law.

Program Contact

Email lawadmissions@tru.ca | Phone 250-828-7847 or 250-852-7699
Faculty web: tru.ca/law

School of Nursing

Master of Nursing

The TRU Master of Nursing (MN) program offers professional nurses the opportunity to develop their leadership capacity, critical thinking and research skills, and to enhance their professional expertise to: engage in clinical nursing practice at an advanced level; provide leadership within diverse health care settings or; pursue nursing education in academic and clinical settings; and actively participate in scholarship or the pursuit of professional-academic goals. The MN program is uniquely situated to support leadership development in Indigenous health, nursing education, and clinical practice. Two pathways for admission (BScN to MN and RN to MN) recognize the diverse educational backgrounds and unique capacity of individual nurses to advance their professional practice by engaging in integrated theory, practice, and knowledge development for leadership in professional nursing.

Program Overview

The MN program builds from and expands upon the knowledge and competencies of an undergraduate nursing or equivalent degree. A multi-model blended learning program approach offers experienced nurses the flexibility to tailor a learning experience that furthers their individual career aspirations by building on individual nursing strengths, experience, and interests. MN students have the opportunity to focus their study in specialized areas of clinical practice, health policy and leadership, education, or research while developing a sophisticated understanding of healthcare systems and contexts.

Learning Options

Full or part-time study | On-campus and blended delivery is available

Admission Requirements

Two admission paths

Post-baccalaureate entry criteria

- **Completed bachelor/baccalaureate degree** from an accredited institution with a grade point average of 3.00 or higher (on a 4.33 point scale, equivalent to 73% or B) in final two years (or 60 credits) of an undergraduate degree. Normally candidates for the MN program will hold a completed baccalaureate degree in nursing or equivalent.
  and
- Program applicants are required to provide evidence of successful completion of an undergraduate introductory statistics course with a minimum C+ grade taken within 5 years prior to admission to the MN program.
  and
- ENGL 1100 Introduction to University Writing with a minimum C+ grade (or equivalent).

Or

Post-diploma entry criteria

- Completion of a diploma nursing program (preparatory for Registered Nursing)
  and
- Program applicants are required to provide evidence of successful completion of an undergraduate introductory statistics course with a minimum C+ grade taken within five (5) years prior to admission to the MN program.
  and
- ENGL 1100 Introduction to University Writing with a minimum C+ grade (or equivalent).
  and
- Fifteen core required credits (5 courses) from an approved Post-RN, BScN courses from TRU or equivalent transferable courses with a grade-point-average of 3.67 (A-) on a 4.33 scale. Fifteen credits are to include the following five core courses from the former TRU Post-Diploma BScN program **(or equivalent).**
  - NURS 3170 Reflections on Caring Practice
  - NURS 3500 Health Promotion and Community Development
  - NURS 3600 Nursing Research
  - NURS 4300 Nurses Influencing Change
  - HLSC 3830 Global Health

All students

- **Evidence of licensure** (practicing, non-practicing or temporary) as a Registered Nurse in Canada or international equivalency.
  and
- **Canadian citizenship, permanent resident status or valid student permit** issued by Canada (indicating TRU as a place of study).
  and
- Official copies of all post-secondary **transcripts**.
  and
- Two **letters of reference**: including one academic and one professional.
- **English language proficiency:**
  Students who have completed studies in a country where English is not the official language, must also submit English language test scores.
  - International English Language Testing System (IELTS) a minimum score of 7.0 and the following sub-test scores: Speaking 7.0, Writing 7.0, Listening 7.5, Reading 6.5.

  or
  - Test of English as a foreign language (TOEFL)
    -iBT: a minimum score of 100 (iBT) with no section below a 20
    -Paper-Based: 600 with a TWE of 5.0

Program Requirements

Thirty-three (33) graduate level course credits required of which 15 credits are from core foundational nursing theory courses including a thesis or major paper/major project option. Thesis option (12 credits) plus 6 elective credits. OR major project/paper (6 credits) plus 12 elective credits. An Advanced Nursing Internship is recommended to provide students with practice learning experience.

Graduate students must complete the program in no longer than 5 years of 15 consecutive terms (fall, winter, summer).

Students are required to maintain a minimum overall program average letter grade of B to progress in the program, with a maximum allowable of one course with a B- letter grade.

A student who receives a B- or lower in two or more courses will be required to withdraw regardless of their grade point average unless the Graduate Program Committee recommends otherwise.

Master of Nursing 33 credits	
Core courses- Foundational nursing theory (15 credits)	
NURS 5100	Knowledge for Advanced Nursing
HLTH 5200	The Canadian Healthcare System
HLTH 5300	Leadership and Managing Change in Healthcare
HLTH 6000	Research in Healthcare
NURS 6100 or NURS 6200 or HLTH 6300	Directed Studies in Health or Directed Studies in Nursing Education Indigenous Health Leadership
Electives —6- 12 elective credits depending upon the capstone option of a project/paper (6 credits) or thesis (12 credits). Select from nursing and interdisciplinary graduate level courses.	
Capstone courses select <u>only 1</u>—Thesis (12 credits) Major paper/project (6 credits)	
NURS 6600 or NURS 6700 or NURS 6800	Major project (6 credits) or Knowledge Integration, Application and Dissemination: Major Paper (6 credits) **or** Graduate Thesis (12 credits)

Program Contacts

General Information 250-828-5457

Email masterofnursing@tru.ca

Faculty web: tru.ca/nursing/programs/master of nursing

Bachelor of Science in Nursing

A four-year degree program. Graduates receive a Bachelor of Science in Nursing (BScN) Degree and are eligible to write the National Council Licensure Examination (NCLEX). Upon successful completion of the NCLEX students apply for registration with the British Columbia College of Nursing Professionals (BCCNP).

Learning Options

Full-time study: The program is offered on a full-time basis over four years. All BScN program requirements must be completed within seven years of the date of entry.

Kamloops campus fall intake: The BScN program is offered on the Kamloops campus yearly every September with an 80 seat capacity.

Williams Lake campus: Williams Lake offers the first two years of the BScN program every other year. Students then transfer to the Kamloops campus to complete the third and fourth years of the BScN.

Program Overview

The Bachelor of Science in Nursing program educates nurses to work with individuals, families, groups or communities from a health promotion perspective and an ethic of caring.

The curriculum is based on a commitment to consider the changing health care needs of our society. Emerging from this commitment is the concept of caring. Caring is understood as the attitude and activity of nursing and will be considered in every nursing course. Nursing practice experiences have been planned and integrated throughout the program of studies.

The BScN degree does not qualify the graduate to undertake employment as a registered nurse. It qualifies the graduate to write the National Council Licensure Examination (NCLEX). Upon successful completion of the NCLEX graduates apply for registration to BCCNP to practice as a Registered Nurse (RN). Graduates applying for the NCLEX and BCCNP will be asked to provide information regarding any convictions for criminal offenses (other than minor traffic violations). Candidates with criminal convictions may not be eligible for BCCNP registration.

The BScN program consists of courses in nursing, the humanities, and the physical and social sciences as they are applied to the nursing care of individuals and their families.

Studies will give students the technical knowledge, human understanding and practical skills to provide responsible and competent client-centred care. Graduates of the program will be prepared to function as team members in non-specialized/specialized acute care, intermediate and/or extended care hospitals, clinics, home care agencies and community health agencies.

Admission Requirements

Admission is selective and competitive. Not all applicants who meet the minimum requirements are accepted to the program.

Educational Requirements

1. Grade 12, or mature student status (or equivalent)
2. English 12 / English 12 First Peoples with a minimum 73% (or equivalent)
3. Biology 12 with a minimum 67% (or equivalent)
4. Foundations of Math 12 (recommended) or Pre-calculus 12 with a minimum 67% (or equivalent)

5. Chemistry 11 with a minimum 67% (or equivalent)
6. One additional science 11 or science 12 course with a minimum 67% (or equivalent).

Students currently enrolled in post-secondary education will be given priority consideration into the program. Please consult truadvising@tru.ca for further information.

Additional Admission Requirement

Introduction letter – A brief personal history, including health care related experiences, reasons for choosing nursing, and positive attributes the applicant may bring to the program and nursing profession. (Two typed pages).

General Requirements upon acceptance into the BScN program

- Updated immunization schedule
- CPR - Level C Certificate It is required that students have a current CPR 'C' prior to clinical experience and must maintain certification every 2 years throughout the program.
- WHMIS Certificate (Workplace Hazardous Materials Information System)
- BCCNP - Self Assessment of Requisite Skills and Abilities
- Criminal Record Check needs to be completed prior to entry

Selective Admission Process

BScN is a very competitive program. TRU Admissions along with the BScN Selection Committee use a selection process that includes a review of the applicants best admission requirements and the Letter of Introduction.

TRU Admissions will notify all reviewed applicants whether they have been accepted, waitlisted, or not accepted.

Note: *Acceptance is conditional and will not be deemed final until all documentation has been submitted*.

In order to secure a seat in the program, students are required to pay a tuition deposit. Applicants have the right to appeal admission decisions.

Application Procedure

The application deadline is January 31. If this deadline falls on a weekend or a statutory holiday the application deadline will be extended to the next working day. Applications are accepted for the following year's September intake between October 1 and January 31. The supporting document deadline, including high school transcripts, post-secondary transcripts, and the Letter of Introduction, is the same date as the application deadline or within 10 days of submission of the application or whichever is later.

Apply online at Apply for Admission.

A complete application includes:

- TRU application & application fee
- Official Ministry of Education high school transcript
  - Current high school students must submit a certified interim grade 12 transcript showing completed grade 11 and 12 courses and all other courses in progress.
- Official post-secondary transcripts from all educational institutions previously attended and/or currently attending showing completed courses and any courses currently in progress.
- Letter of introduction

Licensed Practical Nurses entry into BScN Program

Licensed Practical Nurses (LPNs) can apply into year one of the BScN program and must meet the BScN admission requirements. Upon seat availability, consideration may be given to LPN's to enter into year two of the program. **There is very limited seat ability.** Applicants who have a combination of nursing education, current practicing licence, and a minimum of 1600 hours of work experience as a Licensed Practical Nurse, may be assessed to receive the appropriate transfer credits.

Transfer to TRU BScN Program

The BScN program accepts transfer from AUCC (or equivalent) recognized post-secondary institutions from students currently enrolled in a nursing program. Transfer students must adhere to the TRU policy Transferability of University Credits ED 2-4 and Educational Standards in Credit Courses and Programs ED 8-0.

Transfer students need to complete at least 63 credits, half of the required 126 credits, to obtain a BScN degree at TRU. Completed courses in the current nursing program must be equivalent to the TRU BScN program curriculum. Transfer students need to assess the program course requirements and course descriptions for equivalency before proceeding to apply. Review the BScN Curriculum at tru.ca/nursing/programs/bsn/courses.

Transferring between educational institutions is generally not straight-forward and students will often be admitted at a point earlier in the program, thus taking longer to completed the BScN degree. Transfer students are only offered a seat in the program if they are found to be in good standing and a seat is available within the program. Internal re-entry students are given first priority for available seats. Contact the Student Advisor, School of Nursing for information.

Transfer Credit

To receive transfer credits for BIOL 1592/BIOL 1594, BIOL 1692/BIOL 1694, a 3000 level Nursing elective and all NURSING courses in the BScN program, students must obtain a 60% minimum grade in that course. Required non-nursing courses, such as English, non-nursing electives and PHIL 2310 require a 50% minimum grade.

Grades for required courses taken at TRU prior to entry into the program will be calculated in the GPA. Transfer Credit grades are not calculated into the GPA as only the allotted course credits are transferred to a TRU transcript towards the required 126 credits to receive the BScN Degree.

Criminal Record Check

The Ministry of Public Safety and Solicitor General requires that all students registered in any certificate, diploma, or degree program that has a practicum involving working with children or vulnerable adults must provide a criminal record check authorization to the Criminal Records Review program.

There are 79 relevant offences under the Criminal Records Review Act (pssg.gov.bc.ca/criminal-records-review). In order for students to complete the BScN program they are required to demonstrate competent nursing practice with children and vulnerable adults.

A clear Criminal Record Check (CRC) from the Ministry of Public Safety and Solicitor General is a pre-practicum and pre-employment requirement. Please be advised that a criminal record may limit practicum placement and preclude program completion.

Applicants with a criminal record should begin the process of applying for a pardon through the National Parole Board npb-cnlc.gc.ca.

Consent for a CRC is required and coordinated through the School of Nursing. Information regarding the process for the CRC will be available once an applicant has accepted a BScN seat offer and paid the required tuition deposit.

Program Requirements

Semester 1 – Fall – 18 credits	
NURS 1700	Professionalism and Leadership 1: Intr. to the Profession of Nursing
NURS 1730	Health and Health Promotion 1: Understanding Health
NURS 1740	Nursing Practice 1: Introduction to Nursing Practice
NURS 1170	Communication and Collaboration 1: Self and Others
BIOL 1592	Human Biology 1: Anatomy and Physiology
BIOL 1594(L)	Human Biology 1: Anatomy and Physiology (Lab)
ENGL 1100	Introduction to University Writing
Semester 2 – Winter – 16 credits	
NURS 1800	Professional Practice 2: Foundation to the Profession of Nursing
NURS 1830	Health and Health Promotion 2: Health Across the Lifespan
NURS 1840	Nursing Practice 2: Coming to Know the Client (L)
BIOL 1692	Human Biology 2: Anatomy and Physiology
BIOL 1694(L)	Human Biology 2: Anatomy and Physiology (Lab)
PHIL 2310	Health Care Ethics
Semester 3 – Fall – 13 credits	
NURS 2170	Relational Practice 2: Creating Health -Promoting Relationships
NURS 2730	Health and Healing 3: Health Challenges and Healing Initiatives
HLSC 2550	Health Science 3: Introduction to Pathophysiology
NURS 2740	Nursing Practice 3: Health and Healing
Semester 4 – Winter- 16 credits	
NURS 2830	Health and Healing 4: Health Challenges and Healing Initiatives
NURS 2840	Nursing Practice 4: Health and Healing
HLSC 2650	Health Science 4: Pathophysiology
HLSC 2660	Health Science: Pharmacology
HLTH 2300	Interdisciplinary Indigenous Health
Spring session – May and June – 4 credits	
NURS 2380	Consolidated Nursing Practice (CPE) 2
Semester 5 – Fall – 16 credits	
NURS 3730	Health and Healing 5: Complex Health Challenges and Healing Initiatives
NURS 3170	Relational Practice 3: Connecting Across Differences
NURS 3740	Nursing Practice 5: Promoting Health and Healing
HLSC 3550	Health Science 5: Advanced Pathophysiology
	Non-Nursing Elective (1000 level)
Semester 6 – Winter – 16 credits	
HLSC 3830	Global Health Perspectives
NURS 3500	Health 4: Health Promotion and Community Empowerment
NURS 3600	Professional Practice: Nursing Research
NURS 3510	Nursing Practice 6
	Non-Nursing Elective (2000 level)
Spring session – May and June 4 credits	
NURS 3380 **or**	Consolidated Practice Experience (CPE) 3 Or;
NURS 3390	Consolidated Practice Experience (CPE): International Nursing
Semester 7 – Fall – 13 credits	
NURS 4300	Health and Professional Growth: Nurses Influencing Change
NURS 4380	Community Health Nursing: Practice 7
NURS 4730	Community Health Nursing: A Canadian Perspective
	Upper-level Nursing and Health related elective
Semester 8 – Winter – 10 credits	
NURS 4210	Nursing Practice 8: Transitioning to BScN Graduate
Note: All electives must be selected in consultation with a Program Advisor to ensure they are appropriate for the program.	

** Beginning September 2019, PHIL 2310: Health Care Ethics may be completed in any semester.*

Approved non-nursing electives need to be academic (not vocational) courses with no content covered in the BScN program.

Learning Experiences

The Practice Placement Coordinators (PPC) arrange the practice experiences for nursing students in all four years of the BScN program. These experiences include clinical work at hospitals and health care agencies, visiting families, community projects, and practicum placements in acute care, extended care and community settings. Practicum courses will include out-of-town placements and will also include evening and weekend experiences.

Intercultural Experiences

There is an opportunity for students in third and fourth year to participate in an intercultural nursing experience. This may include Study Abroad, field school, or International and Indigenous Consolidated Practice Experience (CPE).

The International and Indigenous Consolidated Practice Experiences (CPE), options to the usual year end practicum, have been in place since 1999. TRU nursing students have been to Nepal, Samoa, Thailand, and Lesotho and most recently, a rural, interdisciplinary practice experience in an Indigenous community in northern BC. Students are always accompanied by TRU nursing faculty members. Preliminary risk assessment site visits for countries considered for CPE are always completed by experienced faculty to determine suitability for practice for our students.
The international and global education opportunities within the BScN program are applicable to the new TRU Global Competency tru.ca/global credential.

Program Promotion

Students must achieve at least a C grade (60%) in each required course (BIOL 1592/BIOL 1594, BIOL 1692/BIOL 1694 and all HLSC and NURS courses) in the BScN program and maintain a cumulative grade point average (GPA) of 2.33 in order to progress to the next semester of the

program. Students must also successfully complete all nursing practice courses in order to progress to the next semester of the program.

If students fall below a GPA of 2.33 or obtains less than a C in a required course, the Dean of School of Nursing and/or BScN Chairperson may assess the student's progress on an individual basis. Students are normally required to repeat the course to achieve a C grade or better grade. Refer to TRU Policy # ED3-3 on course repeats.

Students must attain a minimum D grade (50%) in ENGL 1100, ENGL 1110, PHIL 2310, and acceptable non-nursing electives prior to entering Semester 7 courses. It is required that students complete the English requirements before entering year 2, one of the English courses must be a composition or university writing academic course.

Because of the importance of safety in nursing, students who fail to achieve a C grade in any required course will not be permitted to advance in either theory or clinical courses until they have successfully repeated the course(s). This usually means waiting until the course is offered again the following year, subject to space availability.

Nursing Practice Experiences

The majority of practice experiences will occur in health agencies within or near the city of Kamloops. Please be aware that all students are expected and required to have at least one practicum outside of Kamloops at some point through the program. Some of these practicums may involve a day trip to a local community or practicums throughout Canada. The Practice Placement Coordinator and the Committee for Approval of Practice Placements outside Kamloops have information and resources for these types of practicums. Students must provide their own transportation to the agencies involved in nursing practice courses and are also responsible for accommodation and related expenses.

Completion Requirements

For students enrolled in the BScN program on a full-time basis, program completion is expected within seven consecutive years for BScN degree completion. Students are assessed on an individual basis.

Degree students must apply to the TRU Office of the Registrar for permission to graduate and attend the convocation ceremony.

Failures and Repeats

Students who fail to achieve a C grade (60%) in each required course (BIOL 1592/BIOL 1594, BIOL 1692/BIOL 1694) and all HLSC and NURS courses within the BScN program or students who withdraw from the program are no longer considered to be in the BScN program. To enrol in other TRU courses, students must apply into one of TRU's open programs. If a student needs to repeat a BScN required course, special permission by the BScN chairperson must be given subject to availability. If successful in completing the required course(s), students must reapply for the BScN program and acceptance will be subject to space availability.

Students who are on leave from the BScN program must reapply and acceptance will be subject to space availability.

The department may require potential repeating students to challenge certain portions of courses in which they previously received credit in order to assess the currency of practical skills. Demand for seats in the program is such that space for course repeaters is based on seat availability. Refer to the TRU School of Nursing Student/Faculty Handbook.

A student who has previously failed in a health-related program and who subsequently applies for admission to the same program or to another health-related program will be regarded as a repeating student, unless they can show cause for being treated as a new student.

A student who receives a failing grade in a course for failure to meet objectives related to professional accountability or patient safety may be refused re-admission to the program, or another health-related program, at the recommendation of the BScN chairperson and on the approval of the Dean, School of Nursing.

All potential repeating students are reminded that they are subject to program completion time requirements.

Withdrawal and Re-admission

Students re-entering the program are required to:

1. Submit in writing to the BScN chairperson, the intent to re-enter the nursing program four months prior to the anticipated re-entry.
2. Make an appointment to see the BScN chairperson, for the purpose of assessment. This interview should be during the month of April for September re-entry, August for January re-entry and November for May re-entry.
3. Students must apply to re-enter back into the BScN program through Admissions.
4. Students are reminded of the program completion requirement and the failures and repeats policy as stated in the university calendar.

Program Costs

In addition to tuition and fees nursing students should budget for additional expenses listed here—additional expenses for nursing students. **(All listed expenses are approximate and subject to change)**

Program Contacts

Kamloops Program: General Information 250-828-5457

Email nursing@tru.ca | Faculty web: tru.ca/nursing/programs/bsn

Williams Lake Admissions: Phone 250-392-8091 | email wlmain@tru.ca

tru.ca/williamslake/programs/nursingprograms/bsn

Practical Nursing Diploma

A two-year diploma program offered at the *TRU Williams Lake Campus.* Graduates receive a Practical Nursing Diploma and are eligible to write the Practical Nurse Registration Exam (CPNRE) and apply for licensure with the British Columbia College of Nursing Professionals (BCCNP) to practice as a Licensed Practical Nurse (LPN) in British Columbia.

Learning Options

The program is offered on a **full-time** basis.
Offered **only** at the **Williams Lake** campus every other year.

Program Overview

This two year practical nursing education program is designed to provide learners with the knowledge, skills, judgements, and attitudes to perform to the full range of competencies as identified by the British Columbia College of Nursing Professionals.

The program, using the BC Provincial Practical Nurse Curriculum, provides a learning experience that is integrated, professional, collaborative and culturally sensitive, with an aim to prepare graduates to care for individuals and families at multiple life stages and in a variety of practice settings.

Upon completion of the program, learners will possess the competencies to complete the Canadian Practical Nurse Registration Exam (CPNRE).

Students study a variety of courses in nursing, and the physical and social sciences that are applied to the nursing care of individuals and their families. Studies give students the technical knowledge, human understanding and practical skills to provide responsible and competent client-centred care.

Graduates of the program will be prepared to function as team members in acute care, residential care, clinics, home care agencies and community health agencies.

Learning Experiences

Learning experiences include classroom, supervised laboratory, and clinical practical.

Students have five clinical practice experiences throughout the two years of the program including four consolidated experiences (one after each theory session) and one final Preceptorship. Clinical practice courses occur in residential and acute care facilities, community health agencies, and homes. Regional agencies outside of Williams Lake are used for clinical practice, requiring students to travel. Clinical practice courses may also include evening and weekend experiences.

Admission Requirements

Educational Requirements

1. Grade 12 or equivalent or mature student status
2. English 12 or English 12 First Peoples with a minimum of 67% or equivalent
3. Foundations of Math 11 with a minimum grade of 60% or equivalent
4. Human Anatomy and Physiology for Practical Nurses with a minimum of 67% (C+), or TRUOL HLTH 1121 with a minimum grade of 67% (C+) or equivalent

Additional Admission Requirements upon acceptance into the PN program:

- CPR Level "C" (CPR-C every two years)
- Immunization as required by clinical partner sites and recommended by BC Centre of Disease Control (2009): diphtheria and tetanus, polio, hepatitis B, measles, mumps and rubella (MMR), varicella, and influenza
- Negative TB skin test or chest x-ray
- BCCNP LPN Requisite Skills and Abilities Form
- Criminal Record check

Additional courses/modules will be required during the program and prior to clinical experiences:

- Interior Health online modules
- Violence prevention modules
- Personal safety workshop

Application Process

Application information and requirements can be found at:

Williams Lake application process.

The following must be included with applications:

- The application fee
- Official transcripts for all secondary and post-secondary institutions attended.
- Arrange to write the Assessment Test at the Assessment Centre (if necessary).

Program Requirements

Required Courses:

Semester 1	
PNUR 1420	Professional Practice 1
PNUR 1600	Professional Communications 1
PNUR 1700	Variations in Health 1
PNUR 1750	Health Promotion 1
PNUR 1800	Pharmacology 1
PNUR 1520	Integrated Nursing Practice 1
PNUR 1570	Consolidated Practice Experience 1
Semester 2	
PNUR 1430	Professional Practice 2
PNUR 1610	Professional Communications 2
PNUR 1710	Variations in Health 2
PNUR 1760	Health Promotion 2
PNUR 1810	Pharmacology 2
PNUR 1530	Integrated Nursing Practice 2
PNUR 1580	Consolidated Practice Experience 2

Semester 3	
PNUR 2420	Professional Practice 3
PNUR 2600	Professional Communications 3
PNUR 2700	Variations in Health 3
PNUR 2750	Health Promotion 3
PNUR 2520	Integrated Nursing Practice 3
PNUR 2570	Consolidated Practice Experience 3
Semester 4	
PNUR 2430	Professional Practice 4
PNUR 2610	Professional Communications 4
PNUR 2710	Variations in Health 4
PNUR 2760	Health Promotion 4
PNUR 2530	Integrated Nursing Practice 4
PNUR 2580	Consolidated Practice Experience 4
PNUR 2560	Transition to Preceptorship
PNUR 2590	Preceptorship

Program Promotion

The passing grade for each theory course in the program is 60%. Practice courses are pass/fail. Students must pass each course in order to continue in the program.

Program Contact

Williams Lake Admissions Phone 250-392-8019| Email wlmain@tru.ca
tru.ca/williamslake/programs/nursingprograms/practicalnursing

Health Care Assistant Certificate

A 27-week certificate program. Graduates receive a Health Care Assistant Certificate.

Program Learning Options

Kamloops Campus: The program is offered full-time at the Kamloops campus. Contact the Program Assistant for start dates.

Williams Lake Campus: The program is offered full-time, every other year, in Williams Lake, and yearly in other communities on a rotating basis.

Distance Learning: The program is delivered through self-paced online theory courses with three practice-based courses in the care setting. The distance option has continuous intake.

Program Overview

The Health Care Assistant (HCA) program teaches students the skills they need to care for older adults in residential care facilities, assisted living facilities, and in clients' private homes. The program focuses on learning to assist older adults in meeting their basic physical, emotional, environmental and social needs. Students learn to provide practical assistance to help clients maintain maximum independence within the limits of their ability.

Students also learn to practice ethically in a responsible and accountable manner, using caring and respectful communication skills. Students learn critical thinking and creativity to meet the varying needs of clients and learn how to work effectively as a team member.

The HCA program offers the BC Provincial HCA Curriculum and consists of courses in the basic concepts of health, client centred care, personal care and assistance, common health challenges, and cognitive challenges as they are applied to the care of older individuals and their families.

Graduates of the program will be prepared to function as healthcare assistants and team members in residential care, and assisted living, home-care agencies, or hospital settings.

Learning Experiences

Learning experiences include classroom, supervised laboratory, and clinical practice.

Students have clinical practice experiences throughout the 27 week program, including an 8-week practicum at the end of the program. Clinical practice occurs in care facilities, and client homes. Clinical practice courses may also include evening experiences.

Admission Requirements

Educational Requirements

1. Successful completion of BC Grade 11 minimum (BC Grade 12 preferred), or equivalent
2. English 11 with 73% (B) minimum or equivalent
3. English language competency for non-native English speakers
   BC Health Care Assistant Programs - minimum English language competency requirements

General Requirements (Upon acceptance into the HCA program):

- Food Safe Level 1
- Standard First Aid with CPR Level C or equivalent
- Up-to-date Immunizations
- Cleared Criminal record check. A criminal record check is a pre-practicum and pre-employment requirement of most agencies. Please be advised that a criminal record may limit practicum placement and preclude program completion
- Students should be in good physical health with NO back problems
- Flexibility, maturity, and a sense of humor are desirable
- Should have access to reliable transportation
- Students are strongly advised to volunteer in a continuing care facility and to talk to a Home Support Worker before registering for the program. It is important that the prospective HCA demonstrate a caring and interested attitude toward older adults and physically challenged persons, and be willing to work with these clients and their families

Application

Apply online at Apply for Admission

The following must be included with applications:

- The application fee
- Official transcripts for all secondary and post-secondary institutions attended.

Program Requirements

Required courses:	
HEAL 1000	Health 2: Lifestyle and Choices
HEAL 1010	Health and Healing: Concepts for Practice
HEAL 1050	Health 1: Interpersonal Communication
HEAL 1100	Health Care Assistant: Introduction to Practice
HEAL 1150	Healing 3: Personal Care and Assistance
HEAL 1200	Healing 1: Caring for Individuals Experiencing Common Health Challenges
HEAL 1350	Healing 2: Caring for Individuals Experiencing Cognitive or Mental Challenges
HEAL 1250	Practice Experience in Home Support and Assisted Living
HEAL 1300	Practice Experience in Multi-Level or Complex Care

Program Promotion

The passing grade for each course in the program is 70%. Students must pass each course in order to continue in the program.

Program Contact

Kamloops Program General Information 250-828-5405

Email nursing@tru.ca | tru.ca/hca

Williams Lake Admissions Phone 250-392-8019| wlmain@tru.ca

tru.ca/williamslake/programs/nursingprograms/health-care-assistant-certificate

Aboriginal Pathways to Health Careers Program

Indigenous students are offered individual assessment that identifies their needs and strengths and they complete courses that encourage strong foundations for success. Once students are finished the program, they can apply to enter a health career degree or diploma program such as:

Nursing, Physiotherapy, Medicine, Occupational Therapy, Dietician, Medical Lab Technology, Pharmacy, and Dentistry.

Admission Requirements

Student should have completed at least Grade 10 Math and Grade 10 English before entry to the program.

If it has been more than 2 years since you attended high school, you will be required to take ACCUPLACER testing to determine if upgrading is necessary.

Program Contact

Program Lead: Email dsanderson@tru.ca | 250-371-5593

Faculty of Science

Master of Science in Environmental Science

The Master of Science in Environmental Science is a thesis-based degree. Graduates of the program receive a Master of Science degree (MSc. ENVS)

Program Overview

The MSc in Environmental Science provides an integrative, multi-disciplinary approach to the study of the environment. Students are trained to approach specific sub-disciplines using techniques ranging from molecular techniques to ecosystem ecology to policy, management, and ethical considerations.

The MSc is program based and requires a minimum of 2 years for completion with most student completing in two and half to three years. The maximum time for completion is 5 years. Once accepted into the program students must register every semester (fall, winter, summer) until they have completed all requirements unless they are on an official leave of absence.

Admission Requirements

Applicants must meet the following TRU admission requirements:

1. **Identify a thesis supervisor**:

   The MSc program is based heavily on students conducting research that will lead to their written thesis. A faculty member at TRU must be interested and willing to supervise, and quite often, fund the research. An applicant is expected to contact and discuss potential supervision before they apply. Applicants will not be admitted into the MSc unless a supervisor has been confirmed. To view a list of eligible faculty visit: tru.ca/science/masters-degrees/msces/faculty.

2. **Education Requirements:**

- Applicants must be graduates of a four-year undergraduate degree or equivalent (in an appropriate discipline), from an accredited institution with a GPA of 3.3 on a scale of 4.33, in the last 60 credits.
- Students with a lower GPA may be considered if the applicant can demonstrate significant academic growth since their graduation.
- Satisfactory completion of an introductory statistics course, or ability to show equivalency, prior to application or within the first semester of the program.

3. **Language Requirement:**

   Applicants who did not complete their undergraduate degree at an English language university in a country where English is the primary language should have one of the following:

- A minimum TOEFL score of 570 with a TWE of 4.5 or higher (paper-based test, or minimum score of 88 with no section below 20 (IBT)
- IELTS of at least 6.5 with no bands below 6.0
- CAEL of at least 70 with no subtest below 60
- MELAB of 81+
- CanTest of 4.5+ with no component score below 4.0
- completion of TRU ESAL Level 5
- completion of TRU ENGL 1100 and CMNS1290 or equivalent

4. **Application and Supporting Documentation Requirements:**

- Apply online at Apply for Admission. Further information about the application and admission process can be found at: tru.ca/science/masters-degrees/msces/applying.
- Cover letter of 350 words or less. The cover letter should clearly state why you are pursuing an MSc at TRU. This should include an indication of the type of thesis topic being targeted, i.e. particular field of study, and why a certain faculty member is appropriate for supervision.
- Attach evidence that a TRU graduate approved faculty member is willing to act as your supervisor (email or signed letter).
- Personal resume.
- Attach evidence of language proficiency if your first language is not English.
- Official copy of educational transcripts for all post-secondary education (in original language and a certified copy in English).
- Two letters of recommendation (academic or professional references). *Please use the forms provided in the Application for Admission package*. Please note: a proposed supervisor cannot act as a referee; however, they may provide a letter of support, in addition to the required two letters, if they wish to highlight the applicant's circumstances and/or qualifications.

Note: Applicants will be considered at any time, but there is no guarantee for applications received within 6 weeks of proposed semester start date that they will receive an admission decision with enough time to complete arrangements they may need to begin on-campus studies. Students not accepted **or** students who did not attend last year, must submit a **new online application.**

Program Requirements

The MSc degree in Environmental Science requires the completion of 28 credit hours including: 4 required courses and an independent research project culminating in a thesis. The required courses are the backbone of our program, where faculty and students from many disciplines analyze and discuss environmental issues from different perspectives.

All students must take the following required courses—28 credits

Course	Description	Credits
ENVS 5100	Environmental Science I: History, Philosophy, and Concepts	3
ENVS 5200	Environmental Science II: Conducting Science	3
ENVS 5300	Environmental Science: Topics and Case Studies	2
ENVS 5400	Environmental Science: Dissemination and Outreach	2
ENVS 5990	Thesis*	18
*Master's Thesis must be completed under the direct supervision of your Thesis Supervisor		

Program Contacts

MSc Program Coordinator: Email: MSc_coord@tru.ca
Graduate Admissions: Email gradadmissions@tru.ca | Phone 778-471-8398
International students: Email igrad@tru.ca

Bachelor of Computing Science

A four-year undergraduate degree. Graduates receive a Bachelor of Computing Science (BCS) degree.

Learning Options

Part-time or full-time study

On-campus: Courses are available at the Kamloops campus. A number of courses are available online through TRU Open Learning.

Program Overview

TRU's four-year Bachelor of Computing Science prepares graduates for careers in software and hardware design, system architecture, operating system structure, and modelling and simulation.

The degree will:

- Enable students in academic streams to obtain a computing science degree.
- Allow students with a 2 or 3 year Computing Science Diploma to continue their education and obtain a degree in Computing Science.
- Permit students in the BSc and BA degrees more course options.
- Allow past students the ability to upgrade skills to maintain or enhance employability.
- Allow employees required to upgrade their skills, but not necessarily interested in completing the degree, to take needed courses.

The program combines theory, technical and hands-on skills, communication skills (written and oral), and business skills. A commitment to professionalism is an essential characteristic of the BCS program.

Admission to the BCS Program occurs primarily at the first or third year level, although admission at the second- or fourth-year is possible. The four categories for admission are:

1. Entry from the Computing Science Diploma Program at TRU (or equivalent).
2. Entry from Arts, Business, Education, Engineering, and Science.
3. Professional entry with a suitable combination of relevant work experience in the information technology field and post-secondary study, as determined by the BCS Coordinator (Program Advisor).
4. High school graduates.

Admission Requirements

First Year Entry

To be considered for admission to BCS, students must have completed:

1. Pre-calculus Math 12 or Foundations of Math 12 with a minimum of C+ or equivalent within the last two years.
2. English 12/English 12 First Peoples with a minimum of 73% or equivalent.

Applicants who have not met the requirements but are high school graduates or mature students are conditionally admitted to the TRU Bachelor of Computing Science Program.

Third Year Entry

To be considered for admission to the BCS at the third-year level, students must have completed 48 TRU credits (or equivalent) as follows:

1. Core Requirements (36 credits):
2. 8 computing courses (COMP 1130, COMP 1230, COMP 2130, COMP 2210 COMP 2230, COMP 2680, COMP 2920, COMP 2160 or equivalents)
3. 2 math courses (MATH 1700, MATH 1650) (6 credits)
4. 2 English (ENGL 1100, CMNS 1290 or equivalents, or CMNS 1810 or equivalents)
5. 4 non-computing courses, one of which must be outside of science
6. 4 general elective Open

It is anticipated that not all students seeking third year entry will meet all of the BCS Core requirements. Course deficiencies must be completed during the first semester of study upon commencement of the program.

Transfer Student

See the BCS Coordinator for further details on advanced placement.

Program Requirements

- Students must complete at least 120 credits as specified by TRU policy. At least 30 credits must be obtained at TRU. A minimum cumulative GPA of 2.0 must be obtained on the courses taken at TRU. At least 6 upper-level COMP courses must be completed at TRU.
- Students must earn a grade of C or better in all prerequisite courses.

Year 1 and 2	
COMP 1130, 1230, 2130, 2230, 2160, 2680, 2210, 2920 (or equivalents)	24 credits
MATH 1700 and MATH 1650 (or equivalents)	6 credits
ENGL 1100 and CMNS 1290 (or equivalents)	6 credits
Non-computing Science electives	9 credits
Any academic course	12 credits
Non-science elective	3 credits
Year 3 and 4	
COMP 3260, 3270, 3410, 3450, 3540, 3610, 3710, 3520, 4910	27 credits
Upper-Level Computing Electives	15 credits
Upper-Level Electives	3 credits
Any academic courses	15 credits

Program guides will be developed for each student enrolled in the BCS program. These guides list all BCS requirements in years one through four, and will identify if these requirements have been completed.

Students entering in third- or fourth-year must complete any missing first or second year courses prior to starting BCS, or, if approved by the BCS Coordinator, during the first semester of study.

Sample Course Sequence

First Year Entry

Year 1 – Fall Semester	
COMP 1130	Computer Programming 1
ENGL 1100	Introduction to University Writing
Elective s [1,]	2 courses
MATH 1650 or MATH 1700	Mathematics for Computing Science or Discrete Mathematics 1
Year 1 – Winter Semester	
COMP 1230	Computer Programming 2
MATH 1650 (or MATH 1700)	
CMNS 1290	Business and Technical Writing
Electives [1]	2 courses
Year 2 – Fall Semester	
COMP 2160 COMP 2130 COMP 2230	Mobile Application Development Introduction to Computer Systems Data structures and Algorithms
Electives	2 courses
Year 2 – Winter Semester	
COMP 2210	Programming Methods
COMP 2680	Website Design and Development
COMP 2920	Software Architecture and Design
Electives or 3 credit of Co-op	2 courses
[1] Four electives must be non-computing electives, and one of these must be a non-science elective.	

Third Year Entry

Year 3 – Fall Semester	
COMP 3270	Computer Networks
COMP 3410	Operating Systems
COMP 3450	Human Computer Interaction Design
UL Elective	Upper-Level Elective
General Elective	
Year 3 - Winter Semester	
COMP 3260	Computer Network Security
COMP 3540	Advanced Web Design and Programming
COMP 3610	Database Systems
COMP 3XX0/4XX0	Upper-Level Computing Elective
General Elective	

Year 4 – Fall Semester	
COMP 3710	Artificial Intelligence
COMP 3520	Software Engineering
COMP 3xx0/4xx0	Upper-Level Computing Elective
COMP 3xx0/4xx0	Upper-Level Computing Elective
Elective	
Year 4 – Winter Semester	
COMP 4910	Computing Science Project
COMP 3xx0/4xx0	Upper-Level Computing Elective
COMP 3XX0/4XX0	Upper-Level Computing Elective
Elective	
Elective	
[1] A total of 18 upper-level courses must be completed. At least 15 of these must be in computing science.	

Co-operative Education

Co-operative Education is an optional component in the Bachelor of Computing Science degree program. It offers students the opportunity to obtain paid, career-related work experience in their field of study.

Each Co-op work term is generally four months in length for a minimum of 420 hours. In addition to completing specific program courses, students must complete three Co-op work terms to graduate with Co-op designation. Consult the Co-op Department for details.

BCS Co-op Time Pattern:
Various time patterns are possible, however students are expected to complete multiple work terms in more than one season of the year. Consult the Co-op Department for details.

Prerequisites/Co-requisites: Students normally apply in their first semester of BCS. Students who have completed the Computer Science diploma prior to BCS may apply to do a work term prior to the start of their first BCS academic semester. Students are expected to follow the Co-op Time pattern of work/study as established for their program, by taking all of the semester courses as described in the calendar, have credit for all previous courses in the program and students must maintain a minimum cumulative GPA of 2.33. Completion of the Co-op 1000 course is a pre-requisite to participating in the Co-op program.

Sample BCS Co-op Time Pattern

Term	Sep – Dec	Jan – Apr	May - Aug
Year 1	Academic Semester	Academic Semester	
Year 2	Academic Semester	Academic Semester	Co-op Work Term
Year 3	Academic Semester	Co-op Work Term	Co-op Work Term
Year 4	Academic Semester	Academic Semester	Optional Work Term
Year 5	Academic Semester	Graduation	

Dual Degrees in Computing and Business

Dual degrees in both computing and business provide graduates with a strong foundation to build a successful career in the information technology industry. Bachelor of Computing Science and Bachelor of Business Administration (BBA) graduates will possess the combined management skills and computing know how needed to be successful in an increasingly high-tech business environment.

To earn dual degrees, students must meet the requirements of both programs. Many core and elective courses can be “double counted,” which means they can be used for credit in both programs. Through careful course selection, it is possible to complete the two degrees in just five years. Dual degrees can be completed concurrently or sequentially.

Admission Requirements

To be admitted to the dual BBA and BCS degrees, students must meet each of the following:

1. BC Grade 12 or mature student status
2. Pre-calculus 12 or Foundations of Math 12 with a minimum of C+ or equivalent, within the last two years
3. English 12/English 12 First Peoples with a minimum of 73% or equivalent

Students may commence their studies while they upgrade their English and Mathematics. Students are admitted at the first-year level.

Program Requirements

Students are encouraged to refer to the BBA and BCS sections of this calendar for the specific requirements of each degree program, as students are required to complete the requirements of both degrees if they choose the dual degree program.

Students are encouraged to meet with the BBA and BCS Program Advisors to develop a program plan.

Specializations

Three specializations are available in the BCS program:

1. Database and Information Systems
2. Network Computing
3. Software Engineering

To obtain the Specialization designation on your transcript the following upper-level courses must be completed:

Database and Information Systems	
COMP 3540	Websites Design and Programming
COMP 3610	Database Systems
Three of the following:	
COMP 4610	Advanced Database Systems
COMP 4620	Web-based Information Systems
COMP 4910	Computing Science Project (with a specialization topic)
COMP 4480	Directed Studies (with a specialization topic)

Network Computing	
COMP 3270	Computer Networks
COMP 3410	Operating Systems
Three of the following:	
COMP 3260	Internet and Security Issues
COMP 4250	Computer Network Administration
COMP 4910	Computing Science Project (with a specialization topic)
COMP 4480	Directed Studies (with a specialization topic)

Software Engineering	
COMP 3520	Software Engineering
COMP 4530	Advanced Software Engineering
COMP 4910	Computing Science Project
Two of the following:	
COMP 3140	Object-Oriented Programming
COMP 3050	Computer Algorithms
COMP 4480	Directed Studies (with a specialization topic)

Students planning to complete one of these specializations should advise the BCS Program Coordinator.

Program Contact

Program coordinator email csdept@tru.ca

Bachelor of Engineering in Software Engineering

A five-year, undergraduate degree in software engineering that includes two mandatory work terms. Graduates receive a Bachelor of Engineering in Software Engineering (BEng) degree.

Learning Options

Full-time on-campus delivery: The program is offered on a full-time basis on the Kamloops campus
Program start date: September
Selective admission: Due to the limited number of seats, this is a competitive entry program
International applicants: Open to international applicants

Program Overview

Following two years of common engineering curriculum, students are able to complete their degree in software engineering by completing discipline specific upper-level years and two mandatory work terms.

Graduates learn how to work efficiently in industry on jobs related to software application development, software testing, software design, database management, network management and operations, and security analysis and protection. The curriculum focuses on strong analytical, technical, and professional skills development. Graduates develop a strong foundation in software engineering, mathematics, basic sciences, engineering sciences, and humanities, along with the understanding of the professional and ethical principles related to economic, cultural, legal or environmental issues in product development. They will recognize the need for, and gain the ability to, engage in continuing professional development. Our graduates will have the technical knowledge and skills to use modern tools, techniques and applications to design, develop, test and maintain cycles of software product devolvement. We aim at providing enhanced experiential learning with flexible options and strongly focus on student success. The coupling of mandatory work terms with the face-to-face learning aims at providing graduates with relevant practical industrial experience.

Software engineers enjoy potentially lucrative career choices with a wide range of employers. The program is designed to meet the criteria of the Canadian Engineering Accreditation Board (CEAB). Graduates will meet all of the educational requirements for registration as a professional engineer through APEGBC once the program receives the accreditation from CEAB. Up to 12 months of co-op work may count towards the work experience required for professional designation.

Admission Requirements

I. Admission into first year of the software engineering program

Students may gain admission to the first year of the program in several ways, including:
A. High School Admission Requirements:

- BC Grade 12 (or equivalent).
- BC English 12/English 12 First Peoples with a minimum of 67% (or equivalent).
- Pre-calculus 12 with a minimum of 67% (or equivalent).
- Chemistry 12 with a minimum of 67% (or equivalent).
- Physics 12 with a minimum of 67% (or equivalent).

Recommended Courses:
Although not required, the following courses are very beneficial: Calculus 12, Drafting 12, a computing or information technology course involving computer programming and problem solving using high-level languages such as C/C++, Visual Basic, or Java.

B. Admission after partial completion of first-year engineering studies:

Students who have completed parts of a first-year engineering program at a recognized university will be considered for admission on a case-by-case basis and will require approval of the TRU engineering undergraduate admission committee. The committee may require upgrading or completion of pre-requisite courses

C. Admission after a year of post-secondary studies in science or related studies:

- Overall GPA of 3.00 (B) or better.
- Grades of B (or better) in 1000 level mathematics courses completed.
- Grades of B (or better) in 1000 level physics courses completed.
- Grades of B (or better) in 1000 level chemistry courses completed.
- Grades of C+ (or better) in 1000 level English courses completed.

Such interested individuals will be considered for admission on a case-by-case basis and will require the approval of the TRU engineering undergraduate admission committee. Students may be required to upgrade or complete pre-requisite courses for admission.

II. Admission into second year of the software engineering program

Students may gain admission to the second year of the software engineering program in several ways including:

A. Students may gain admission to second-year of the software engineering program after completing first-year of TRU equivalent engineering courses at a recognized university. Such interested individuals will be considered for admission on a case-by-case basis and requires approval of the TRU engineering undergraduate admission committee. The committee may require upgrading or completion of pre-requisite courses.

B. Students may gain admission to second-year of the program after completing first-year of TRU science courses from cognate departments or at a recognized university. Such interested individuals will be considered for admission on a case-by-case basis and require approval of the TRU engineering undergraduate admission committee. The committee may require upgrading or completion of pre-requisite courses.

III. Admission into third year of the software engineering program

Students may gain admission to the third year of the software engineering program in several ways including:

A. Students may gain admission to third-year of the software engineering program after completing the first TWO years of TRU equivalent engineering courses at a recognized university. Such interested individuals will be considered for admission on a case-by-case basis and require approval of the TRU engineering undergraduate admission committee. The committee may require upgrading or completion of pre-requisite courses.

B. Students may gain admission to third year of the software engineering program after completing the first TWO years of TRU science courses from the cognate departments or at a recognized university. Such interested individuals will be considered for admission on a case-by-case basis, and require approval of the TRU engineering undergraduate admission committee. The committee may require upgrading or completion of pre-requisite courses.

Program Requirements

Year 1 Fall, term 1 - 21 credits	
ENGR 1100	Introduction to Engineering & Design
SENG 1110	Programming for Engineers 1
DRAF 1520	Engineering Graphics
ENGL 1100	Introduction to University Writing
EPHY 1150	Physics for Engineers
MATH 1130	Calculus 1 for Engineering
MATH 1300	Linear Algebra for Engineers
Year 1 Winter, term 2 - 21 credits	
EPHY 1250	Physics for Engineers 2
EPHY 1700	Engineering Mechanics
EPHY 1990	Introduction to Engineering Measurements
MATH 1230	Calculus 2 for Engineering
SENG 1210	Programming for Engineers 2
CHEM 1520	Principles of Chemistry
MATH 1700	Discrete Mathematics 1
Year 2 Fall, term 3 - 18 credits	
PHYS 2150	Circuit Analysis
ENGR 2200	Engineering in Society, Health and Safety
CENG 2010	Computer Architecture & Assembly Language
CMNS 1290	Introduction to Professional Writing
STAT 2230	Probability and Statistics for Engineers
Year 2 Winter, term 4 - 18 credits	
CENG 2030	Introduction to Digital Signal Processing
EPHY 2990	Introduction to ECE Design
EPHY 2300	Digital Electronics
PHYS 2250	Intermediate Electromagnetism
ENGR 2300	Engineering Management
ENGR 2400	Engineering Economics
Year 3 Fall, term 5 – 18 credits	
SENG 3110	Algorithms & Data Structure
CENG 3010	Computer System Design
CENG 3310	Digital Communication Systems
EENG 3010	Introduction to Control Systems
SENG 3130	Software Requirements & Specifications
ENGR 3300	Engineering Professional Ethics
Year 3 Winter, term 6 - 18 credits	
COMP 3410	Operating Systems
COMP 3610	Database Systems

SENG 3120	Software Engineering Design: Process & Principles
SENG 3210	Applied Software Engineering
CENG 3020	Real Time Systems Design
	Natural Science Elective
Year 4 Fall, term 7	
COOP 2080	ENGR Co-op Work Term 1
Year 4 Winter, term 8	
COOP 2180	ENGR Co-op Work Term
Year 5 Fall, term 9 – 21 credits	
SENG 4100	Software Engineering Design Project
SENG 4120	Software Model Engineering & Formal Methods
SENG 4110	Software Testing & Verification
SENG 4130	Software Design Patterns
SENG 4XXX	Upper-level technical elective
SENG 4XXX	Upper-level technical elective
Year 5 Winter, term 10 – 18 credits	
CENG 4320	Communication Networks
SENG 4230	Software Estimation
SENG 4220	Software Security Engineering
SENG 4140	Software Quality Engineering
SENG 4XXX	Upper-level technical elective
SENG 4XXX	Upper-level technical elective

Residency requirements:
All upper level EENG, CENG, SENG, COMP, ENGR courses must be completed at TRU. Credits: 72

Graduation requirements

Graduation requires:

1. Completion of all courses in the program
2. Completion of TWO CO-OP work terms
3. Students must earn a grade of C or better in all prerequisite courses
4. Students must achieve a cumulative grade point average (GPA) of 2.5 in order to graduate
5. Students must maintain a cumulative grade point average (GPA) of 2.33 in order to progress

Two of the Upper Level Technical Electives can be from EENG or CENG Upper Level Technical electives on the approval of the engineering program advisor.

Program Contact

Department Chair: fahmed@tru.ca | Phone 250-371-5696

Bachelor of Health Science

The Bachelor of Health Science degree program is designed to provide health care diploma students and graduates from recognized programs and institutions with the opportunity to obtain a bachelor's degree. The Bachelor of Health Science at TRU is offered as a dual credential program in conjunction with the TRU Respiratory Therapy diploma program and as a degree program through TRU Open Learning.

Learning Options

Full-time or part-time study: Students are expected to complete the program on a full-time basis. A limited number of students may also be admitted to the program to study on a part-time basis.

Program start dates: Students enter the program in the fall semester.

Program Overview

The Bachelor of Health Science degree program is designed to:

- Allow working health professionals to broaden their education and enhance their skills, knowledge, career options and academic credentials without having to leave the workforce for an extended period.
- Make advanced studies available to professionals in selected health occupations at a convenient time and place.
- Provide the academic foundation required for select graduate level programs.
- Allow individuals to maximize recognition of related university credits they previously earned for coursework unrelated to their health care diploma.

Each student's degree program plan reflects her/his previous education as it applies to the degree.

Admission

Admission Requirements: Students must be admitted into, or graduates of, a minimum two-year health care diploma program.

Transfer Credit: Graduates from a non TRU diploma or degree program with no previous TRU credits may be granted up to a maximum of 60 transfer credits (in order to meet TRU residency requirements).

A maximum of 30 upper-level credits may be granted as block transfer from any health care diploma.

Program Requirements

Required Electives

A minimum of 15 credits of required coursework must be academic electives, of which a minimum of six of these credits must be upper-level. All electives must be selected in consultation with a TRU Program Advisor to ensure they are appropriate for the program and/or meet future educational goals.

Exemptions without credit may be granted for appropriate courses taken within the diploma program (excluding courses needed to fulfill the residency requirements). This may increase the number of elective credits required for degree completion.

Note: Academic electives are courses that are not considered professional development, applied studies or advanced training. Credit for Anesthesia (ANES), Polysomnography (POLY), Respiratory Therapy (RESP) and Health (HLTH) courses are limited because some are considered non-academic. Courses related to the block credit will not be considered for additional credit towards this degree.

Specific Lower-Level Requirements

- 6 credits in first-year English (university-level composition and literature, e.g., TRU ENGL 1100, 1110, 1120, 1140 or 1150 suggested)
- 3 credits in introductory statistics
- 3 credits in humanities (other than English) including FRAN, FREN, GERM, GREK, HIST, HUMN, PHIL, SPAN and WOST.

Specific Upper-Level Requirements

- 3 credits in research methods (RSMT 3501 or approved upper-level equivalency)
- 6 credits in HLTH 3101, 4011 or 4021 must be taken through TRU

Academic Elective Credits

The number of elective credits required will depend on the number of credits awarded for the diploma program and any other relevant academic transfer credit.

Respiratory Therapy Dual

TRU Respiratory Therapy diploma students may use 90 credits from the diploma towards the Bachelor of Health Sciences program. For these students, CMNS 1810 and CMNS 1970 (or equivalent) satisfy the 6 credits of required English in the BHSc program and students are exempted from the statistics requirement. Respiratory therapy students have to take 30 credits outside of the respiratory therapy program to complete the Bachelor of Health Science degree.

The 30 credits required are:

- 1 Humanities course (3 credits)
- 4 lower-level electives (12 credits)
- 2 upper-level electives (6 credits)
- 1 required research methods course (3 credits) RSMT 3501
- 2 required upper-level HLTH care courses (6 credits) two of HLTH 3101, 4011 or 4021

Requirements	Credits	Courses
Lower-level (12 credits)	6 credits 3 credits 3 credits	ENGL 1100, 1110 STAT 1200 Humanities (other than English)
Upper-level (9 credits)	3 credits 6 credits	RMST 3501 or approved equivalent HLTH 3101, or 4011 or 4021 (taken through TRU OL)
Electives*	Dependent	*The number of elective credits required depends on the number of credits awarded for the diploma program and any other relevant academic transfer credit awarded.
Total Credits = 120		
Students are required to consult with the Program Advisor regarding all course selection.		

Graduation requirements

Graduation requires completion of 120 credits (minimum of 45 upper-level credits), with a grade point average (GPA) of 2.0 or higher over all required courses.

Program Contact

Program Assistant, Allied Health
Email resp@tru.ca | Phone 250-828-5403
Web: RT Diploma and Dual Credential Program

Bachelor of Science

Learning Options

Study full-time or part-time on the TRU Kamloops campus.

Program start dates: Students may enter the program in the fall, winter, or summer semester.

Distance Education: Many courses are available by distance education.

The Faculty of Science is committed to providing its students with a quality education emphasizing personal attention, choice and flexibility. In the Bachelor of Science program, students can expect opportunities for practical, hands-on experience across a spectrum of science disciplines in the classroom, in the lab, and in the field. In addition, there are opportunities for students to work with nationally and internationally recognized professor-researchers in their research laboratories.

Program Overview

The BSc is a rigorous program that provides students with both depth and breadth in their science education. Communication skills and computer literacy are promoted. Flexibility in the program allows students to pursue interests in disciplines outside their area of specialization.

TRU offers three routes to a BSc degree: a major in a specific discipline or disciplines, an honours program in a specific discipline (currently available in biology, chemical biology, mathematics and computing science), or a general science degree.

Many of our graduates go on to science careers in medicine, veterinary medicine, medical genetics, elementary and high school teaching, resource management, high tech industry, biotechnology, optometry, pharmacy, dentistry, wildlife management, respiratory therapy and more. A significant number of TRU Science graduates are very successful in graduate schools and many have received NSERC scholarships to continue their studies.

Service Learning

Students may take 6 credits of service learning during their third or fourth years. Of these 6 credits, three may be applied directly to the major. A service learning course is a faculty-supervised community-based learning project completed individually or in groups of up to five students.

Bachelor of Science Co-operative Education

BSc students majoring in biology (animal; general; cellular, molecular and microbial; ecology and environmental biology), chemical biology, chemistry (chemistry or environmental chemistry), physics, mathematics or computing science may apply to enter the Co-operative Education option in one of these areas. Co-op education allows students to integrate academic study terms with paid periods of relevant experience in their field of study, and usually requires an additional year for completion of the degree program. Students apply to enter the Co-op option early in their second or third year of study and work terms normally commence at the end of that year.

Students alternate between periods of on campus, full-time study and work terms, which are full-time paid employment. Students are expected to complete multiple work terms in more than one season of the year.

Refer to the Co-operative Education web page for detailed information on Co-op policies, procedures, and fees. Co-operative Education web page.

Biology Co-op

Students must have completed first year and will have completed three of BIOL 2160, BIOL 2170, BIOL 2280, BIOL 2290, before the first work term. Students must have a cumulative GPA of 2.33 to enter the BSc Biology co-op option and must maintain a cumulative GPA of 2.33 to remain eligible for Co-op.

Students must complete a minimum of three Co-op work terms to graduate with Co-op designation. Biology students normally apply in the fall semester of their second year.

A Co-operative Education work term is considered a three-credit elective. Each program has different requirements for the elective. Contact the Program Advisor for more information.

Chemistry/Environmental Chemistry Co-op

Students must have completed first year and CHEM 1500/1510 or CHEM 1500/1520, and anticipate completing CHEM 2120/2220 and CHEM 2100/2250 prior to the first work term. A minimum cumulative GPA of 2.33 is required, and must be maintained throughout the Co-op program. For students applying to Co-op in third year, CHEM 3100 and CHEM 3120 or CHEM 3170 must be completed prior to the first work term, and at least *one* of the following: CHEM 3060, 3070, and 3080, or CHEM 3220, 3230 and 3240, or CHEM 3310, 3320, 3330 A minimum cumulative GPA of 2.33 is required and must be maintained.

Students must complete a minimum of three Co-op work terms to graduate with a Co-op designation. Chemistry students normally apply in the fall semester of their second or third year.

A Co-operative Education work term is considered a three-credit elective. Each program has different requirements for the elective. Contact the Program Advisor for more information.

Computing Science Co-op

The Co-op program is open for Bachelor of Computing Science students in all majors, including those in the Computing Science Diploma program.

Students must have a minimum cumulative GPA of 2.33 and have maintained a term and cumulative GPA of 2.33 in all BSc courses, and have completed COMP 2130 and 2230 prior to their first work term.

A Co-operative education work term is considered a three-credit elective. Each program has different requirements for the elective. Contact the Program Advisor for more information. Students with further questions regarding the Computing Science Co-op program, please contact the Computing Science Co-op Coordinator.

Mathematics Co-op

Students must have a cumulative GPA of 2.67 to enter the BSc Math Co-op option and must maintain a cumulative GPA of 2.67 throughout the Co-op option. Students must have completed a minimum of 48 credits before beginning their first work term.

Applicants must maintain a minimum cumulative GPA of 2.67 in BSc degree courses. Students must complete three Co-op work terms to graduate with a Co-op designation. Mathematics students normally apply for the Co-op option in the fall semester of their second or third year.

A Co-operative Education work term is considered a three-credit elective. Each program has different requirements for the elective. Contact the Program Advisor for more information.

Physics Co-op

Students must have a cumulative GPA of 2.33. Second and third year Physics students who have completed or anticipate completing the following courses with a minimum cumulative 2.33 GPA prior to the first work term will be eligible: PHYS 1100/1200 or 1150/1250, PHYS 2000, PHYS 2200, PHYS 2250, MATH 2110, MATH 2120, MATH 3170. As well, students must complete the following courses with a minimum cumulative 2.33 GPA prior to the first January work term in third year: PHYS 3200, PHYS 3250 and PHYS 3400; OR , PHYS 3090, PHYS 3140 and PHYS 3160. Completion of COMP 1130 or COMP 1520 is highly recommended. Preference will be given to students with a demonstrated background in computers and electronics.

A Co-operative Education work term is considered a three-credit elective. Each program has different requirements for the elective. Contact the Program Advisor for more information.

International Experiences

Study Abroad

TRU offers a range of International Exchange opportunities, and is a member of a large, international Study Abroad program that gives students access to universities around the world. BSc students may want to spend one or more semesters of study at another university.

International Field Schools

TRU offers a number of general and program-specific field schools every year. These schools run from two to six weeks in length and offer course credit that can be applied to your degree.

Admission Requirements

Students entering the Bachelor of Science program are required to complete English 1100 or 1110, along with specific science courses, which vary depending on their intended major (see below for details).

Prerequisites for English 1100 are:

- English 12/English 12 First Peoples with a minimum of 73% (or equivalent)

Bachelor of Science majors have specific first year course requirements. It is strongly recommended that students become familiar with the prerequisite requirements for these courses before applying for admission. In general, the minimum prerequisite requirements for courses in the first year courses in the BSc programs are as follows:

Major	Prerequisites
Biology (all majors) General Science Chemistry Chemical Biology Environmental Chemistry	Biology 11 or 12 with C+ or better, Chemistry 11 or equivalent, Pre-calculus 12 with a minimum C+ or equivalent within the past 2 years, Physics 11 or equivalent, English 12/English 12 First Peoples 73%
Computing Science Mathematics Mathematical Sciences Physics	Chemistry 11 or equivalent, Pre-calculus 12 with a minimum C+ or equivalent within the past 2 years, Physics 11 or equivalent, English 12/English 12 First Peoples 73 %

Students may upgrade their prerequisites while enrolled in the Bachelor of Science program.

These are the minimum requirements. Several major programs recommend courses with more stringent prerequisite requirements.

Prospective students should become familiar with the course requirements for their intended major and consult the individual course descriptions for specific prerequisite requirements.

Once students are accepted into Faculty of Science programs, prerequisite courses, if any, must be completed satisfactorily prior to registering in a course. In the Bachelor of Science Major programs, satisfactory completion is a grade of C or better in the specific discipline courses (unless otherwise stated), and all course prerequisites will be checked to ensure compliance.

Transfers to TRU

Students from another college or university may apply to transfer to TRU any time after October 1. BC Students intending to transfer should check bctransferguide.ca to see what credits may transfer.

Laddering Credit to the BSc Program

Course credit from the TRU Associate of Science degree may be applied toward a BSc degree. Contact the BSc Program Advisor by email at jrosvick@tru.ca for more information.

Program Advising

Students in the first- and second- years of the BSc program should choose their 1000-2000 level courses in consultation with an Academic Advisor (advising@tru.ca) in order to meet the basic requirements and the specific prerequisite requirements for the 3000-4000 level courses for each major. After completing 45 credits, but before completing 60 credits, students are required to meet with the BSc Advisor (jrosvick@tru.ca) and declare a major. The BSc Advisor will assist each student in selecting 3000-4000 level courses to meet the graduation requirements for each major.

Bachelor of Science, General Science Program

The General Science program, leading to a Bachelor of Science degree, gives students an education in science that is broader than the individual science majors programs but is still rigorous. The general program offers students the opportunity to specialize at the upper-level (third- and fourth-years) in two or more of the areas of biology, chemistry, earth sciences, mathematical and computing science (mathematics, computing science and statistics) and physics.

Many graduates are highly successful and move on to science careers or further study in medicine, veterinary medicine, medical genetics, elementary and high school teaching, resource management, high tech industry, biotechnology, optometry, pharmacy, dentistry, wildlife management, respiratory therapy and more. The degree can be used as the basis for entry into graduate school in some subjects; while for others further qualifying studies may be required. Specific university calendars should be consulted for detailed admission requirements and application procedures for further study.

The Bachelor of Science in General Science also serves as excellent preparation for students planning to enter programs in Law and in Business Administration (MBA).

Course Requirements for the General Science Program
Completion of the Bachelor of Science Degree in General Science requires the completion of 120 TRU credits of course work. Normally 30 credits are taken each year for a period of four years. Completion of the degree on a part-time basis is also possible. A detailed description of course requirements is found later under 'Graduation Requirements'.

Lower-Level Requirements (1000- and 2000-level courses)
Students in the BSc in General Science must take (or have taken) 6 TRU credits of 1000 level mathematics (calculus) and 3 credits of 1000 level introductory courses in each of chemistry, computing science, physics, and either biology or geology in their first two years.

The specific courses that are acceptable are listed under “Graduation Requirements”. Students must also take 6 additional TRU science credits from any area of science (astronomy, biology, chemistry, computing science, geology, physical geography, physics, or statistics) during their first two years. In addition, students must ensure that they obtain first year prerequisites for all second year courses they will require.

During the first two years at least 3 credits of English must also be completed, including CMNS 2290 or 2300. (Students who do not achieve a high-level of performance in their first English course will be required to complete 6 credits of English.)

The General Science program requires careful planning. Students must ensure that during their second year they complete the prerequisites to the upper-level (3000- and 4000-level) courses they plan to take in subsequent years. Failure to do so may result in more than four years being required to complete their degree.

Students with sufficiently high standing may, with special permission from the BSc Advisor, enrol in a limited number of upper-level courses prior to admission to third year. Normally, this may not exceed 6 upper-level credits. These will count toward the 48 credits of upper-level courses required for graduation.

Upper-Level Requirements (3000- and 4000-level courses)
There are two alternative routes to degree completion in the General Science program, both of which require completion of a minimum of 48 TRU credits of upper-level courses. Of these upper-level courses, a minimum of 30 credits or 36 credits, depending upon the alternative chosen, must be in upper-level science courses (biology, chemistry, computing science, geology, mathematics, physics, and statistics), with the remaining upper-level courses chosen from science (biology, chemistry, computing science, geology, mathematics, physics, statistics) or arts or business courses.

Alternatives:

- Completion of 18 upper-level credits in each of two areas (chosen from biology, chemistry, computing science, geology, mathematics and statistics, physics). This alternative is particularly recommended for students planning to qualify to teach in BC secondary schools.
- Completion of at least 18 upper-level credits in one of the six areas (biology, chemistry, computing science, geology, mathematics and statistics, physics) and at least 6 upper- level credits in each of two other areas.

Students who successfully complete the BSc General Science degree program will have the subject area or areas, in which 18 or more TRU credits of upper-level science courses were completed, recorded on their transcript.

Bachelor of Science Major Program

The Bachelor of Science (BSc) Major program is intended for students wishing to specialize in a single field of science. This may lead to graduate study if a sufficiently high standing is obtained.

The courses available in the BSc Major program may also meet the course requirements or, recommended course requirements, for entry into a variety of professional programs such as:

- Dentistry, Medicine, Pharmaceutical Sciences and Rehabilitation Sciences at UBC and most other universities offering similar programs
- Veterinary Medicine program at the University of Saskatchewan
- Pre-veterinary year at the University of Guelph
- Optometry program at the University of Waterloo
- Chiropractic program at Canadian Memorial Chiropractic College
- Naturopathic Medicine program at the Canadian College of Naturopathic Medicine, as well as similar programs at other institutions in Canada and the United States

Specific university calendars should be consulted for detailed admission requirements and application procedures for these programs.

TRU offers the following science majors:

- Animal Biology
- Biology
- Cellular, Molecular, and Microbial Biology
- Chemical Biology
- Chemistry
- Computing Science
- Computing Science and Mathematics
- Ecology and Environmental Biology
- Environmental Chemistry
- Mathematics
- Mathematics and Economics
- Mathematical Sciences
- Physics

Students wishing to include a broader range of courses in a major program may be able to proceed in a BSc Major program by completing as many of their course requirements as possible at TRU, and completing any remaining course requirements (to a maximum of 30 credits) at another university as a 'visiting student.' A Letter of Permission from TRU is required for 'visiting student' status.

Bachelor of Science Major Program with a Minor

Students in the BSc Major program may also complete a minor in a discipline or disciplines outside their major. This allows students to acquire extensive experience in an area outside the discipline of their major, and to identify this experience as a component of their degree on their transcript.

Students may pursue a minor in either another area of science (biology, chemistry, computing science, mathematics and statistics, or physics) or in another discipline for which sufficient upper-level (3000 and 4000 level) courses are available. For example, students in the BSc Major program may also be able to complete a minor in the following:

- Archaeology and Geology (Geoarchaeology)
- Computing Science
- Environmental Economics and Sustainable Development
- Management

A minor requires the completion of at least 30 credits and no more than 42 credits in the area of the minor. At least 18 of these credits must be at the upper-level (third or fourth year). No more than three of the required upper-level credits can be the same for both the major and the minor. In addition to this, minors in some disciplines have more specific requirements.

Minor in Archaeology and Geology

Requires the completion of the following courses:	
GEOL 1110	Introduction to Physical Geology
GEOL 2290	Stratigraphy and Sedimentary Geology
GEOL 2050 or BIOL 1210	Geological Time Principles of Biology 2
3 credits from first or second-year Archaeology:	
ARCH 1110 or ARCH 2190	Human Origins Ancient North Americans
9 credits in third- and fourth-year Archaeology from:	
ARCH 3050	Theory in Archaeology
ARCH 3060	Summer Field Training in Archaeology
ARCH 3260	Environmental Archaeology
ARCH 4110	Prehistory Spec Areas
ARCH 4200	Archaeology of British Columbia
9 credits in third- and fourth-year Geology from:	
GEOL 3010	Principles of Palaeontology
GEOL 3030	Environmental Geochemistry
GEOL 3190	Geomorphology
GEOL 4250	Geological History of North America
GEOL 4480	Directed Studies in Geology

Minor in Computing Science

Required Courses: (12 Credits)	
MATH 1700	Discrete Mathematics 1
COMP 1130	Computer Programming 1
COMP 1230	Computer Programming 2
COMP 2230	Data Structures, Algorithm Analysis and Program Design
COMP Electives (18 Credits):	
COMP XXXX	3000-4000 Level Computing Elective
COMP XXXX	3000-4000 Level Computing Elective
COMP XXXX	3000-4000 Level Computing Elective
COMP XXXX	3000-4000 Level Computing Electives
COMP XXXX	3000-4000 Level Computing Electives
COMP XXXX	3000-4000 Level Computing Electives
TOTAL CREDITS 30	

Minor in Environmental Economics and Sustainable Development

Requires the completion of 12 credits of upper-level courses from the list below.	
ECON 3410	The Economics of Climate Change
ECON 3690	Community Economic Development
ECON 3700	Cost Benefit Analysis for Project Evaluation
ECON 3710	Environmental Economics
ECON 3990	*Selected Topics in Economics
ECON 3730	Forestry Economics
ECON 3740	Land Use
ECON 4720	Sustainable Economic Development
ECON 4990	*Selected Topics in Economics
At least two of: (6 credits)	
BIOL 3020, BIOL 3030, BIOL 3100, BIOL 3290, BIOL 3430, BIOL 4020, BIOL 4090, BIOL 4100, BIOL 4160, BIOL 4260, BIOL 4270. CHEM 3010 **or** CHEM 3020 PHIL 4350 An upper-level geology course An upper-level natural resource science course An upper-level ECON course from the list above	

*Note: The ECON 3990 and 4990 can be used only if special topics covered are related to the minor. The Chairs/Program Advisor with consultation will make this decision.

Minor in Management

MATH 1070 or MATH 1100 or MATH 1140 or MATH 1380	Mathematics for Business and Economics 2 or Finite Mathematics with Applications 1 or Calculus 1 or Discrete Data Structures for Computing Science
STAT 1200 or STAT 2000 or PSYC 2100 or ECON 2320 or BIOL 3000	Introduction to Statistics or Introduction to Statistics or Analysis of Psychological Data or Economics and Business Statistics 1 or Biometrics
ACCT 2210	Financial Accounting
MIST 2610 or COMP 1020	Management Information Systems or Introduction to Spreadsheets plus two additional credits in Computer Science
ORGB 2810	Organizational Behaviour
FNCE 3120	Finance
MKTG 3430	Marketing
HRMN 3820	Human Resources
Plus three additional 3000/4000 business course	

Note: Specific requirements for minors programs in the School of Business are detailed in the Bachelor of Business Administration Degree Program section of the calendar. Students are advised to consult the SoBE Advisor.

Students taking a major in mathematical sciences cannot take a minor in computing science.

NOTE*: For specific requirements regarding minors in non-science disciplines, refer to specific faculties and their programs in the TRU Calendar and consult the appropriate department Program Advisor.*

Students considering a minor must plan their program very carefully and they should complete any lower-level (1000 and 2000 level) prerequisites required for the upper-level courses they plan to take in the field of their minor during their first two years. In most cases the completion of a major and a minor will require the completion of more than 48 upper-level credits and may, depending upon what lower-level courses are taken, require the completion of more than a total of 120 credits for graduation.

Double Major Program

Students in the BSc program may complete majors in two science disciplines. (For example: biology and chemistry, chemistry and physics, computing science and mathematics, mathematics and physics, etc.) A double major is not permitted in mathematics and mathematical science since the amount of overlap in required courses in these two majors is too great. A double major requires the completion of all the specific requirements for each major, and no more than six (6) of the required upper-level credits can be the same for the two majors. The completion of a double major will normally require five years (10 semesters) of study rather than the four years (8 semesters) required for a major. Students wishing to plan a double major program should meet with the BSc Advisor for further information

Students in the BSc program interested in study in a non-science area beyond the scope of a minor may pursue a double degree and be awarded a degree in the second area in addition to the BSc (e.g. BSc and BA or BSc and BBA). Students must complete a minimum of 30 extra credits for the second degree and must meet the normal requirements in respect to courses and the number of credits of each program. Students are encouraged to declare, as early as possible, their intention to do a double program so that appropriate planning may be done.

Course Requirements for a Major Program

Completion of a Bachelor of Science major degree requires the completion of 120 credits of course work. Normally 30 credits are taken each year for a period of four years. Completion of the degree on a part-time basis is also possible. A detailed description of course requirements is found below under “Graduation Requirements”.

Lower-Level and Upper-Level Requirements

Specific lower-level and upper-level requirements are listed on the following pages under each major degree program. Students must ensure that during their second year they complete necessary prerequisites to the courses they plan to take in subsequent years.

Bachelor of Science Honours Program

The Bachelor of Science Honours program aims to provide motivated students with the opportunity to develop their research skills under the supervision of a faculty member and to have these skills recognized as part of their program. The completion of an honours program should provide a competitive edge for students wishing to enter graduate or professional schools.

At present, honours programs for BSc students are available in the fields of biology, chemical biology, mathematics, and computing science. Specific requirements are listed below in each of the discipline areas.

Interdisciplinary Honours Program in Chemical Biology

An honours program is available in chemical biology and requires the completion of 126 credits, including the 117 credits required for the major as well as CHBI 3980-1 (Introduction to Research), CHBI 4980-2 (Honours Seminar) and CHBI 4990-6 (Honours Thesis). Students must apply for admission to the Chemical Biology Honours program at the end of their third year. Acceptance into the program normally requires fourth- year standing, a minimum GPA of 3.0 with at least at B grade in all biology, chemistry and required English courses.

Co-operative Education

Students taking this program are eligible to enter the Biology or Chemistry Co-operative Education program, providing they meet the requirements.

Biology Programs

Build a strong foundation in all aspects of biology with maximum flexibility. Students can choose courses to match their interests giving them the ability to tailor their education.

The BSc Biology program involves extensive field and laboratory experiences, as well as the opportunity to be involved in independent research projects and collaborations with faculty members as part of a directed studies option, honours thesis, or through student research grants.

Program options leading to a BSc degree in biology at TRU include:

- Animal biology
- Cellular, molecular and microbial biology
- Ecology and environmental biology
- General biology

Biology Program Contact

Department Chair: Phone 250-828-5463

Major in Animal Biology

Lower-Level	**60 credits**
BIOL 1110 and 1210	6 credits
CHEM 1500 and 1510 or 1500 and 1520	6 credits
ENGL 1100 or 1110[1]	3 credits
ENGL 1100 , 1110, 1120, 1140, 1150, 1210, CMNS 2290 or 2300[2]	3 credits
MATH 1130 and 1230 or, MATH 1140 and 1240 or, MATH 1150 and 1250	6 credits
PHYS 1100 and 1200 or PHYS 1150 and 1250[3]	3 or 6 credits
BIOL 2130 and 2340	6 credits
BIOL 2160, 2170, 2280 and 2290	12 credits
CHEM 2120 and 2220	6 credits
3 credits of COMP chosen from COMP 1000, 1010, 1020, 1030, 1040, 1050, 1070, 1080,1090, 1130 or 1150[1]	3 credits
Electives(see 2, 3 and 4)	3 - 9 credits
Upper-Level	**60 credits**
BIOL 3000	3 credits
BIOL 3030	3 credits
BIOL 3400[6]	3 credits
BIOL 3130 and 3350	6 credits
BIOL 3540 and 3550	6 credits
BIOL 4130 or 4140	3 credits
Animal Biology Electives[8]	18 credits
Upper-Level Electives[7]	9 credits
Other electives[4]	3 credits
The Animal Biology Honours program requires completion of 126 credits: 117 credits as above (minus 3 credits of upper levelelectives) plus BIOL 3980 and BIOL 4980 (3 credits) and BIOL 4990 (Honours Thesis; 6 credits)	
Notes:	
1 Must be taken prior to third year.	
2 Students with a B or better in ENGL 1100 or 1110 need only take 3 credits of ENGL. The remaining 3 credits may be taken in any discipline outside science. CMNS 2300 is recommended.	
3 Students with a grade of 80% or better in Physics 12 only need to complete PHYS 1150 (3 credits). The remaining 3 credits may be taken in any subject area.	
4 The BSC requires at least 18 credits of courses be taken in disciplines outside science. 3-6 credits of ENGL (see 2) and BIOL 3400 (see 5) count toward this requirement. Additional electives must therefore include at least 9-12 credits in disciplines outside science, including at least 2 disciplines (other than English) outside of science. The remaining electives can be chosen from any academic discipline.	
5 The BSc requires at least 48 credits of courses numbered 3000 or higher.	
6 BIOL 2300/3300/4300 or BIOL 3300/4300 and COOP 1000 are acceptable alternatives to BIOL 3400. These courses count towards the "non-science" requirement for the B.Sc.(see 4)	
7 At least 9 credits of electives must be must be in courses numbered 3000 or higher. These may be in any discipline and some may count toward the "non-science" requirement.	
8 ANBI electives: BIOL 3100, BIOL 3110, BIOL 3200, BIOL 3220, BIOL 3290, BIOL 3310, BIOL 4020, BIOL 4090, BIOL4100, BIOL 4160 or NRSC 4040, BIOL 4270 or NRSC 3000, BIOL 4480, BIOL 4490, NRSC 3210, NRSC 4020, NRSC 4050,NRSC 4100	

Major In Biology

Lower-Level	**60 credits**
BIOL 1110 and 1210	6 credits
CHEM 1500 and 1510 or CHEM 1500 and 1520	6 credits
ENGL 1100 or 1110[1]	3 credits
ENGL 1100, 1110, 1120, 1140, 1150, 1210, CMNS 2290 or 2300[2]	3 credits
MATH 1130 and 1230 or, 1140 and 1240 or 1150 and 1250	6 credits
PHYS 1100 and 1200 or 1150 and 1250[3]	6 credits
BIOL 2130 and 2340	6 credits
BIOL 2160, 2170, 2280 and 2290	12 credits
CHEM 2120 and 2220	6 credits
3 credits of COMP chosen from COMP 1000, 1010, 1020, 1030, 1040, 1050, 1070, 1080, 1090,1130 or 1150[1]	3 credits
Electives[See 2, 3 and 4]	3-9 credits
Upper-Level	**60 credits**

BIOL 3000	3 credits
BIOL 3030	3 credits
BIOL 3130 and 3350	6 credits
BIOL 3400[6]	3 credits
two of BIOL 3510, 3520, 3540, 3550 or one of these and both of BIOL 4110 and 4210[9]	6 or 9 credits
BIOL 4120, 4130 or 4140	3 credits
Biology Electives[8]	9 or 12 credits
Upper-Level Electives[7]	15 credits
Other electives[4]	9 credits
The **Biology Honours program** requires completion of 126 credits: 117 credits as above (minus 3 credits of upper level electives) plus BIOL 3980 and BIOL 4980 (3 credits) and BIOL 4990 (Honours Thesis; 6 credits)	
Notes:	
[1] Must be taken prior to third year.	
[2] Students with a B or better in ENGL 1100 or 1110 need only take 3 credits of ENGL. The remaining 3 credits may be taken in any discipline outside science. CMNS 2300 is recommended.	
[3] Students with a grade of 80% or better in Physics 12 only need to complete 3 credits of first year physics—PHYS 1150. The remaining 3 credits may be taken in any subject area.	
[4] The BSc requires at least 18 credits of courses be taken in disciplines outside Science. 3-6 credits of ENGL (see 2) and BIOL 3400 (see 5) count toward this requirement. Additional electives must therefore include at least 9-12 credits in disciplines outside of science, including at least 2 disciplines (other than English) outside of science. The remaining electives can be chosen from any academic discipline.	
[5] The BSc requires at least 48 credits of courses numbered 3000 or higher.	
[6] BIOL 2300/3300/4300 or BIOL 3300/4300 and COOP 1000 are acceptable alternatives to BIOL 3400. These courses count towards the "non-science" requirement for the B.Sc.(see 4)	
[7] At least 15 credits of electives must be must be in courses numbered 3000 or higher. These may be in any discipline and some may count toward the "non-science" requirement.	
[8] BIOL Electives: BIOL 3010, BIOL 3100, BIOL 3110, BIOL 3200, BIOL 3210, BIOL 3220, BIOL 3230, BIOL 3260, BIOL3290, BIOL 3310, BIOL 3430, BIOL 3510, BIOL 3520, BIOL 3540, BIOL 3550, BIOL 3800, BIOL 4020, BIOL 4090, BIOL4100, BIOL 4110, BIOL 4120, BIOL 4130, BIOL 4140, BIOL 4150, BIOL 4160 or NRSC 4040, BIOL 4210, BIOL 4250,BIOL 4260, BIOL 4270 or NRSC 3000, BIOL 4350, BIOL 4480, BIOL 4490, BIOL 4600, NRSC 3110, NRSC 3210, NRSC4020, NRSC 4050, NRSC 4100, NRSC 4130	
[9] If students choose BIOL 4010/4110 plus one other from BIOL 3510, 3520, 3540, then only 9 credits of BIOL electives are required.	

Major In Cellular, Molecular, and Microbial Biology

Lower-level	**60 credits**
BIOL 1110 and 1210	6 credits
CHEM 1500 and 1510 or, CHEM 1500 and 1520	6 credits
ENGL 1100 or 1110[1]	3 credits
ENGL 1100 ,1110, 1120, 1140, 1150, 1210, CMNS 2290 or 2300[2]	0-3 credits
MATH 1130 and 1230 or, 1140 and 1240 or, 1150 and 1250	6 credits
PHYS 1100 and 1200 or 1150 and 1250[3]	3-6 credits
BIOL 2130 and 2340	6 credits
BIOL 2160, 2170, 2280 and 2290	12 credits
CHEM 2120 and 2220	6 credits
3 credits of COMP chosen from COMP 1000, 1010, 1020, 1030, 1040, 1050, 1070, 1080, 1090, 1130 or 1150[1]	3 credits
Electives(see 2, 3 and 4)	3-9 credits
Upper-level	**60 credits[5]**
BIOL 3000	3 credits
BIOL 3130 and 3230	6 credits
BIOL 3350 and 3520	6 credits
BIOL 3210	3 credits
BIOL 3400[4]	3 credits
BIOL 4110 and 4210	6 credits
BIOL 4130 and BIOL 4250	6 credits
BIOL 4350	3 credits
CMMB Electives[8]	6 credits
Upper-Level Electives[7]	9 credits
Other Electives[4]	9 credits
The **CMMB Honours program** requires completion of 126 credits: 117 credits as above (minus 3 credits of upper level electives) plus BIOL 3980 and BIOL 4980 (3 credits) and BIOL 4990 (Honours Thesis; 6 credits).	
[1] Must be taken prior to third-year.	
[2] Students with a B or better in ENGL 1100 or 1110 need only take 3 credits of ENGL. The remaining 3 credits may be taken in any discipline outside science. CMNS 2300 is recommended.	
[3] Students with a grade of 80% or better in Physics 12 only need to complete PHYS 1150 (3 credits). The remaining 3 credits may be taken in any subject area.	
[4] The B.Sc. requires at least 18 credits of courses be taken in disciplines outside Science. 3-6 credits of ENGL (see 2) and BIOL3400 (see 5) count toward this requirement. Additional electives must therefore include at least 9-12 credits in disciplines outside of science, including at least 2 disciplines (other than English) outside of science. The remaining electives can be chosen from any academic discipline.	
[5] Students with a grade of 80% or better in Physics 12 only need to complete 3 credits of first-year physics—PHYS 1150. The remaining 3 credits may be taken in any subject area	
[6] BIOL 2300/3300/4300 or BIOL 3300/4300 and COOP 1000 are acceptable alternatives to BIOL 3400. These courses count towards the "non-science" requirement for the BSc (see 4)	
[7] At least 9 credits of electives must be must be in courses numbered 3000 or higher. These may be in any discipline and some may count toward the "non-science" requirement.	
[8] CMMB Electives: BIOL 3010, BIOL 3200, BIOL 3310, BIOL 3510, BIOL 3540, BIOL 3550, BIOL 3800, BIOL 4150, BIOL4480, BIOL 4490, BIOL 4600	

Major in Ecology and Environmental Biology

Lower -level	**60 credits**
BIOL 1110 and 1210	6 credits
CHEM 1500 and 1510 or, CHEM 1500 and 1520	6 credits
ENGL 1100 or 1110[1]	3 credits
ENGL 1100, 1110, 1120, 1140, 1150, 1210, CMNS 2290 or 2300[2]	0-3 credits
MATH 1130 and 1230 or, MATH 1140 and 1240 or, MATH 1150 and 1250	6 credits
PHYS 1100 and 1200 or 1150 and 1250[3]	6 credits
BIOL 2130 and 2340	6 credits
BIOL 2160, 2170, 2280 and 2290	12 credits
CHEM 2120 and 2220	6 credits
3 credits of COMP chosen from COMP 1000, 1010, 1020, 1030, 1040, 1050, 1070, 1080, 1090, 1130 or 1150[1]	3 credits
Electives[2,3,4]	3-9 credits
Upper-level	**60 credits[5]**
BIOL 3000	3 credits
BIOL 3030	3 credits
BIOL 3130 and 3350	6 credits

BIOL 3400[6]	3 credits
two of BIOL 3510, 3520, 3540, 3550 or one of these and both of BIOL 4110 and 4210[9]	6 or 9 credits
BIOL 4120, 4130 or 4140	3 credits
Ecology & Environmental Biology Electives[8]	15 or 18 credits
Upper-Level Electives[7]	9 credits
Other electives[4]	9 credits
The **Ecology and Environmental Biology Honours program** requires completion of 126 credits: 117 credits as above (minus 3 credits of upper-level electives) plus BIOL 3980 and BIOL 4980 (3 credits) and BIOL 4990 (Honours Thesis; 6 credits).	
[1] Must be taken prior to third-year.	
[2] Students with a B or better in ENGL 1100 or 1110 need only take 3 credits of ENGL. The remaining 3 credits may be taken in any discipline outside of science. CMNS 2300 is recommended.	
[3] Students with a grade of 80% or better in Physics 12 only need to complete PHYS 1150 (3 credits). The remaining 3 credits may be taken in any subject area.	
[4] The BSc requires at least 18 credits of courses be taken in disciplines outside Science. 3-6 credits of ENGL (see 2) and BIOL3400 (see 5) count toward this requirement. Additional electives must therefore include at least 9-12 credits in disciplines outside of Science, including at least 2 disciplines (other than English) outside of Science. The remaining electives can be chosen from any academic discipline.	
[5] The B.Sc. requires at least 48 credits of courses numbered 3000 or higher.	
[6] Students with a grade of 80% or better in Physics 12 only need to complete 3 credits of first-year physics— PHYS 1150. The remaining 3 credits may be taken in any subject area	
[7] At least 9 credits of electives must be must be in courses numbered 3000 or higher. These may be in any discipline and some may count toward the "non-science" requirement.	
[8] EEBI Electives: BIOL 3010, BIOL 3100, BIOL 3110, BIOL 3200, BIOL 3210, BIOL 3220, BIOL 3260, BIOL 3290, BIOL3430, BIOL 4020, BIOL 4090, BIOL 4100, BIOL 4120, BIOL 4140, BIOL 4160 or NRSC 4040, BIOL 4260, BIOL 4270 or NRSC 3000, BIOL 4480, BIOL 4490, NRSC 3110, NRSC 3210, NRSC 4020, NRSC 4050, NRSC 4100, NRSC 4130	
[9] If students choose BIOL 4010/4110 plus one other from BIOL 3510, 3520, 3540, then only 15 credits of EEBI electives are required.	

Interdisciplinary Major Program in Chemical Biology

Lower-Level	
CHEM 1500 and 1510 or, CHEM 1500 and 1520	6 credits
BIOL 1110 and 1210	6 credits
PHYS 1100 and 1200 or PHYS 1150 and 1250	6 credits
MATH 1130 and 1230 or, MATH 1140 and 1240 or, MATH 1150 and 1250	6 credits
ENGL 1100 or ENGL 1110 (or two of ENGL 1100, 1110, 1120, 1140 or 1210)1	3-6 credits
COMP[2] (chosen from one of COMP 1000, 1010, 1020, 1030, 1040, 1050, 1070, 1080,1090, 1130 or 1150)[2]	3 credits
CHEM 2100 and 2250	6 credits
CHEM 2120 and 2220	6 credits
CHEM 2160	3 credits
BIOL 2160	3 credits
BIOL 2130 and 2340	6 credits
CMNS 2290 or 2300[1]	3 credits
Non-Science Elective	9 – 12 credits
Upper-Level	
CHEM 3100	3 credits
CHEM 3170	1 credit
CHEM 3220	3 credits
CHEM 3230	3 credits
CHEM 3240	1 credit
CHEM 4450	3 credits
BIOL 3000	3 credits
BIOL 3130 and 3230	6 credits
BIOL 3350	3 credits
BIOL 3520	3 credits
BIOL 4150 and 4250	6 credits
Chemical Biology Electives[3]	7- 9 credits
Upper-Level Electives[4]	9 credits
Other Elective	3 credits
Notes:	
[1] Students with a B or better in ENGL 1100 (or 1110) may proceed to either of the required CMNS courses (CMNS 2290 or 2300) in their second-year; students with less than a B in first-year English courses must take another 3 credits of first-year English (ENGL 1120, 1140 or 1210) before their second-year English requirement.	
[2] Must be taken prior to third year.	
[3] 7 or 9 credits from CHEM 3060, CHEM 3140, CHEM 3310, CHEM 3330, CHEM 4220, CHEM 4320, CHEM 4400, CHEM 4420, CHEM 4480, CHEM 4600, BIOL 3010, BIOL 3200, BIOL 3510, BIOL 3540, BIOL 3550, BIOL 4350, BIOL 4480, BIOL 4490, PHIL 4330, PHIL 4350.	
[4] Electives must include 9-12 credits in at least two disciplines outside Science (other than English).	

Biology Honours Program

An honours program may be taken in any of the four majors areas listed above and requires the completion of 126 credits, including the 117 credits required for a major in any of these areas as well as BIOL 3980-1 (Introduction to Research), BIOL 4980-2 (Honours Seminar) and BIOL 4990-6 (Honours Thesis). Students must apply for admission to the Biology Honours program at the end of their third year.

Acceptance into the program normally requires fourth-year standing, a minimum GPA of 3.0 with at least a B grade in all biology and required English courses.

Chemistry Programs

The TRU Major in Chemistry and Major in Environmental Chemistry programs are fully accredited by the Canadian Society for Chemistry.

Chemistry Program Contact

Phone 250-828-5454

Major in Chemistry

CHEM 1500 and 1510 or CHEM 1500 and 1520	6 credits
BIOL 1110 [1]	3 credits
Any COMP course[1]	3 credits
ENGL 1100 or 1110[2]	3 credits
MATH 1130 and 1230, or MATH 1140 and MATH 1240, or MATH 1150 and MATH 1250	6 credits
PHYS 1100 and PHYS 1200, or PHYS 1150 and PHYS 1250	6 credits
CHEM 2100 and CHEM 2250	6 credits
CHEM 2120, CHEM 2220 and CHEM 2160	9 credits
MATH 2110 and MATH 2120	6 credits
CMNS 2290 or CMNS 2300 [1,2]	3 credits
Non-Science Electives	9-12 credits
CHEM 3060	3 credits

CHEM 3070	3 credits
CHEM 3080L	1 credit
CHEM 3100	3 credits
CHEM 3120L	1 credit
CHEM 3140	3 credits
CHEM 3220	3 credits
CHEM 3230	3 credits
CHEM 3240L	1 credit
CHEM 3310	3 credits
CHEM 3320	3 credits
CHEM 3330L	1 credit
CHEM 3730	3 credits
CHEM 4400L	1 credit
Selected Topics Electives (3 credits):	
Choose one of CHEM 4220 or CHEM 4320, or CHEM 4600 or CHEM 4070 or CHEM 4090 Note: CHEM 4220 and CHEM 4320 are offered in winter even years. CHEM 4600 is offered in winter odd years	3 credits
Advanced Laboratory Electives (1 credit):	
One of CHEM 4410, or 4420, or 4430	1 credit
Chemistry Electives (3 credits):	3 credits
CHEM 3010 or CHEM 3020 or CHEM 3030 or CHEM 4480 or additional selected topics course.	
Electives (18 credits):	18 credits
18 remaining credits may be chosen from any discipline: at least 9 of these must be in courses numbers 3000 and higher.	
[1] Must be taken prior to third year. (Suggested; COMP 1000, 1010, 1020, 1030, 1040, 1050, 1070, 1130 or 1150)	
[2] Students with a grade of B or better in ENGL 1100 (or 1110) may proceed to either of the required CMNS 2290 or 2300 in their second year; students with less than a B grade in their first year English course are required to take another 3 credits of first year English (1110, ENGL 1140, or 1210) before their second year English requirement.	

Major in Environmental Chemistry

BIOL 1110 and BIOL 1210	6 credits
CHEM 1500	3 credits
CHEM 1510 or CHEM 1520	3 credits
Any COMP course[1]	3 credits
ENGL 1100 or 1110[2]	3 credits
MATH 1130 and 1230, or MATH 1140 and MATH 1240, or MATH 1150 and MATH 1250	6 credits
PHYS 1100 and PHYS 1200, or PHYS 1150 and PHYS 1250	6 credits
CHEM 2100 and CHEM 2250	6 credits
CHEM 2120 and CHEM 2220	6 credits
CHEM 2160	3 credits
CMNS 2290 or CMNS 2300 [1,2]	3 credits
MATH 2110	3 credits
STAT 2000 [3] or BIOL 3000 [3]	3 credits
CHEM 3010	3 credits
CHEM 3020	3 credits
CHEM 3060	3 credits
CHEM 3070	3 credits
CHEM 3080L	1 credit
CHEM 3100 [5]	3 credits
CHEM 3120L[5]	1 credit
CHEM 3140	3 credits
CHEM 3220	3 credits
CHEM 3230	3 credits
CHEM 3240L	1 credit
CHEM 3310	3 credits
CHEM 3320	3 credits
CHEM 3330L	1 credit
CHEM 3730[8]	3 credit
CHEM 4400L	1 credit
Electives: Choose one of the following selected topics (3 credits)	
CHEM 4070 or 4090 or 4600[6] CHEM 4220 or CHEM 4320[7]	3 credits
Select one lab from the following (1 credit):	
CHEM 4410L or 4420L or 4430L	1 credit
Environmental Chemistry Electives: (6 credits)	
Six upper-level credits of upper-level science courses relevance to Environmental Chemistry and approved by the Chair of the Pmasthysical Sciences Department or their designate.	6 credits
Electives	15 – 18 credits
Notes:	
[1] Must be taken prior to third year. (Suggested; COMP 1000, 1010, 1020, 1030, 1040, 1050, 1070, 1130 or 1150)	
[2] Students with less than a B grade in their first year English courses are required to take another 3 credits of first year English 1110 or 1210 before their second year English requirement. Students with a grade B or better in ENGL 1100 or 1110 may proceed to either of the required CMNS 2290 or 2300 in their second year.	
[3] Credit will be given for only one Introductory Statistics course (see note under Statistics Course Descriptions) and BIOL 3000 requires MATH 1140/1240 or MATH 1150/1250 and third-year standing.	
[4] Electives must include 9-12 credits in at least two disciplines outside of science (other than English).	
[5] These 3000 level courses must be taken in the fall semester of third year.	
[6] CHEM 4600 is offered in winter semester of alternate “odd” years.	
[7] CHEM 4220 and CHEM 4320 are offered in winter semester of “even” years.	
[8] CHEM 3730 is required for students entering the BSc program from fall 2005 onward.	

Computing Science Program

The BSc Major in Computing Science is a four-year degree program that provides students with a broad training in science (concentrated in the first two years), and then a thorough training in computing science (concentrated in the last two years). Graduates will then be well qualified for a wide range of employment opportunities, for further study in advanced degrees and for research positions. A cooperative education option is available for the major in computing science.

Computer Science Program Contact

Email csdept@tru.ca | Phone 250-371-5592

Major in Computing Science

Year 1 and 2	
BIOL 1110 or 1210 or GEOL 1110 or 2050	3 credits
CHEM 1500	3 Credits
COMP 1130, COMP 1230, COMP 2130, COMP 2230, COMP 2160, COMP 2680, COMP 2210, COMP 2920, MATH 1700	27 credits

ENGL 1100 or 1110[1]	3 credits
(or any two of ENGL 1100 , 1110, 1120, 1140 and 1210)[1]	6 credits
MATH 1130 and 1230 or MATH 1140 and 1240	6 credits
PHYS 1100 or 1150	3 credits
CMNS 2290 or 2300[1]	3 credits
MATH 2120	3 credits
STAT 2000	3 credits
Elective[2]	3-6 credits
Year 3 and 4	
COMP 3260, COMP 3270, COMP 3410, COMP 3450, COMP 3540, COMP 3610, COMP 3710, COMP 3520, COMP 4910	27 credits
Computing Science Upper-Level Electives	15 credits
Electives[2]	18 credits
1 Students with a B or better in ENGL 1100 or 1110 may proceed into CMNS 2290 or 2300 in their second year; students with less than a B in first year English must take another 3 credits of 1000-level English before their second year CMNS requirement.	
2 Electives must include 9-12 credits in at least two disciplines outside of science (other than English). The remaining elective credits may be chosen from any discipline; 6 of these must be in courses numbered 3000 or higher.	

Honours in Computing Science

Complete the requirements of the major in computing science plus the following:

1. A total of 126 credit
2. A 6 credit thesis course COMP 4960
3. Two theory based computing science courses from the following list:
    - 3110 Models of Computation
    - 3120 Programming Languages
    - 3130 Formal Languages, Automata and Compatibility
    - 3320 Computational Methodology
    - 3820 Computer Graphics and User Interface
    - 4110 Language Processors
    - 4120 Distributed Systems
    - 4320 Advanced Computational Methodology
    - 4340 Modelling and Simulation
    - 4480 Directed Studies
    - 4740 Expert Systems
    - 4750 Neural Networks
    - 4980 Current Topics in CS (if approved by coordinator)
4. Two upper-level math courses from the following list:
    - 3000 Complex Variables
    - 3020 Introduction to Probability
    - 3030 Introduction to Stochastic Processes
    - 3070 Linear Algebra
    - 3120 Introduction to number theory
    - 3160 Differential Equations
    - 3170 Calculus
    - 3200 Real Variables
    - 3220 Abstract Algebra
    - 3400 Introduction to Linear Programming
    - 3510 Problem Solving in Applied Math
    - 3650 Numerical Analysis
    - 3990 Selected topics in Math
    - 4410 Modelling of Discrete Optimization problems
    - 4420 Optimization in Graphs and Networks
    - 4430 Introduction to Graph Theory
    - 4980 Directed Studies in Mathematics
    - 4990 Selected Topics in Math

Bachelor of Science in Computing Science and Mathematics

The BSc in Computing Science and Mathematics is a four-year degree program which provides students with rigorous specializations in both mathematics and computing science.

Year 1 and 2	
BIOL 1110 or 1210 or GEOL 1110 or 2050	3 credits
CHEM 1500	3 credits
MATH 1700	3 credits
COMP 1130, COMP 1230, COMP 2230, COMP 2130, COMP 2680, COMP 2920	18 credits
ENGL 1100 or 1110[1] (or two of ENGL 1100 , 1110, 1120, 1140 and 1210)[1]	3 credits 6 credits
MATH 1130 and 1230 or MATH 1140 and 1240	6 credits
PHYS 1100 OR 1150	3 credits
CMNS 2290 or 2300[1]	3 credits
MATH 2110 and 2120 and 2240 and 2700	12 credits
STAT 2000	3 credits
Electives[2]	0-3 credits
Year 3 and 4	
COMP 4910	3 credits
Any 7 out of: COMP 3260, COMP 3270, COMP 3410, COMP 3450, COMP 3610, COMP 3710, COMP 3520, COMP 3540	21 credits
Any 4 out of MATH 3000, MATH 3170, MATH 3070, MATH 3220, MATH 3400, MATH 3650	12 credits
MATH and STAT electives numbered 3000 or above	12 credits
Electives[2]	12 credits
1 Students with a B or better in ENGL 1100 or 1110 may proceed into CMNS 2290 or 2300 in their second year; students with less than a B in first year English must take another 3 credits of 1000-level English before their second year CMNS requirement.	
2 Electives must include 9-12 credits in at least two disciplines outside of Science (other than English). The remaining elective credits may be chosen from any discipline.	

Computing Science Programs:

- Bachelor of Computing Science (BCS)
- Bachelor of Computing Science and BBA double degree
- Computing Science Diploma

Mathematics Programs (Science)

Mathematics Program Contacts

Math Program Coordinator: Email rtaylor@tru.ca | Phone 250-371-5987

BSc Program Coordinator: Email jrosvick@tru.ca | Phone 250-828-5409

Major in Mathematics (Science)

The Department of Mathematics and Statistics offers a BA in Mathematics, BSc in Mathematics and a BSc in Mathematical Sciences, as well as joint degrees with a variety of other disciplines. The BSc in Mathematics is a four-year degree program which provides students with a rigorous specialization in mathematics supplemented with a broad background in science. Mathematics majors may participate in department seminars and independent study and honours research projects with faculty members. Many students are hired as tutors in the Math Help Centre and for summer research projects.

Year 1 and 2	
BIOL 1110 or 1210 or GEOL 1110 or 2050	3 credits
CHEM 1500	3 credits
COMP 1130 and 1230	6 credits
ENGL 1100 or 1110[1,] (or two of ENGL 1100 , 1110, 1120, 1140 and 1210)[,]	3 credits (6 credits)
MATH 1130 and 1230 or MATH 1140 and 1240	6 credits
PHYS 1100 or 1150	3 credits
CMNS 2290 or 2300 [1]	3 credits
MATH 1700 and 2700 [6]	6 credits
MATH 2110	3 credits
MATH 2120	3 credits
MATH 2200	3 credits
MATH 2240 or STAT 2000	3 credits
Electives [2]	12-15 credits
Year 3 and 4	
At least one of MATH 3070 or MATH 3220	3 credits
At least one of MATH 3000 or MATH 3200	3 credits
MATH courses numbered 3000 or above[3]	21 credits
MATH, STAT or COMP courses numbered 3000 or above[3,4,6]	9 credits
Honors in Mathematics	
Year 3 and 4	
MATH 3000, 3070, 3200, 3220 and 4950	18 credits
MATH courses numbered 3000 or above[3]	15 credits
MATH, STAT, or COMP courses numbered 3000 or above[5]	9 credits
Electives[2]	24 credits
Notes:	
[1] Students with a B or better in ENGL 1100 or 1110 may proceed into CMNS 2290 or 2300 in their second year; students with less than a B in first year English must take another 3 credits of 1000-level English before their second year CMNS requirement.	
[2] Electives must include 9-12 credits in at least two disciplines outside of science (other than English). The remaining elective credits may be chosen from any discipline; 18 of these must be in courses numbered 3000 or higher. For Honours students, 12 must be numbered 3000 or higher	
[3] COMP, MATH and STAT courses can be chosen from: COMP 3050, COMP 3110, COMP 3120, COMP 3130, COMP 3270, COMP 3410, COMP 3510, COMP 3520, COMP 3540, COMP 3610, COMP 3710, COMP 4110, COMP 4120, COMP 4230, COMP 4240, COMP 4320, COMP 4340, COMP 4510, COMP 4520, COMP 4610, COMP 4620, COMP 4740, COMP 4750, COMP 4820, COMP 4830, COMP 4980 MATH 3000, MATH 3020, MATH 3030, MATH 3070, MATH 3080, MATH 3120, MATH 3160, MATH 3170, MATH 3200, MATH 3220, MATH 3400, MATH 3510, MATH 3650, MATH 3700, MATH 4410, MATH 4420, MATH 4430	
STAT 3050, STAT 3060, STAT 4040	
Note: Not all these courses will be offered every year.	
[4] Students interested in pursuing COMP 3000- or 4000 level courses must first complete COMP 2130/2230.	
[5] No more than 6 of these 9 credits may be in computing science.	
[6] MATH 1380 and 1390 or COMP 1380 and 1390 may be substituted for MATH 1700	

Honours in Mathematics

BSc Honours in Mathematics students are required to complete 126 credits for the degree, maintain an overall GPA of 3.0, as well as a GPA of 3.0 in each of their third- and fourth-years, with no individual course below a B- grade. Their mathematics courses must include all four of: MATH 3000, MATH 3070, MATH 3200 and MATH 3220. They also complete MATH 4950 (honours thesis).

Major in Mathematics and Economics (Science)

This program is designed for students who are interested in the interactions between mathematics and economics. The major provides a high quality education and develops within students a wide variety of skills and abilities. These include critical thinking on economic issues using quantitative techniques, analysis of domestic and international socioeconomic problems, developing applied research skills, and decision-making skills. Like the mathematics major, the combined mathematics and economics major has both BA and BSc options tailored to students' other interests.

Year 1 and 2 Lower level requirements	**57 credits**
CHEM 1500	3 credits
ECON 1900 and 1950	6 credits
ENGL 1100 or 1110[1] (or two of ENGL 1110, 1120, 1140 or 1210)	3 credits 6 credits
MATH 1140 and 1240	6 credits
PHYS 1100 or 1150	3 credits
BIOL 1110 or 1210 or GEOL 1110 or 2050	3 credits
MATH 1700 and 2700	6 credits
MATH 2110, 2120 and 2240	9 credits
CMNS 2290 or 2300[1]	3 credits
STAT 2000 or ECON 2320	3 credits
ECON 2900 and 2950	6 credits
COMP 1130	3 credits
Non- Science Elective (cannot be Economics)	3 credits
Year 3 and 4[2] Upper-level Requirements	
ECON 3200, 3900, 3950, 4320 and 4330	15 credits
MATHEMATICS Stream: STAT 3060 Choose four of the following: MATH 3160, MATH 3400, MATH 4410 and one upper-level math elective (course numbered 3000 or above)	15 credits
STATISTICS Stream: MATH 3020 and STAT 3060 Choose three of the following courses: MATH 3030 and any two upper-level STAT electives (6 credits) Note: Students who choose not to take MATH 3030 must take 9 credits of STAT electives	15 credits
GENERAL Stream: STAT 3060 **and 4 of** MATH 3020, MATH 3030, STAT 3050, MATH 3160, MATH 3400, STAT 4040, MATH 4410, any upper-level (3000 or above) MATH or STAT elective.	15 credits
Electives[3]	30-33 credits
1 Students with a B or higher in ENGL 1100 or 1110 may proceed into CMNS 2290 or 2300 in their second year; students with less than a B in first-year English must take another 3 credits of 1000-level English before their second year CMNS requirement.	
2 Students must choose **ONE** of these three streams, MATH Stream, STATISTCS Stream, or GENERAL Stream.	

3	At least 24 credits of electives must be science courses (biology, chemistry, geology, computing science, math, or physics). The remaining electives can be from any academic area. To satisfy breadth requirements for the BSc, at least two disciplines outside of science must be represented (the course(s) chosen as the non-science elective(s) above may count towards these disciplines). At least 18 credits of electives must be in courses numbered 3000 or above.

The major in mathematics and economics requires the completion of at least 66 credits in economics and mathematics/statistics, of which a minimum of 30 credits must be at the upper-level (3000 and 4000 levels) of which no less than 6 credits must be at the 4000 level.

Post-Baccalaureate Diploma in Mathematics and Economics

Post-Baccalaureate Diploma in Mathematics and Economics	
Core courses	
MATH 1130 or MATH 1140	Calculus 1 for Engineering Calculus 1
MATH 1230 or MATH 1240	Calculus 2 for Engineering Calculus 2
MATH 1700 or MATH 2240	Discrete Mathematics 1 or Differential Equations
ECON 1900	Principles of Microeconomics
ECON 1950	Principles of Macroeconomics
STAT 2000 or ECON 2320	Introduction to Statistics or Economic and Business Statistics
MATH 2110	Calculus 3
MATH 2120	Linear Algebra
ECON 2900	Intermediate Microeconomics 1
ECON 2950	Intermediate Macroeconomics 1
ECON 4320	Econometrics
ECON 4330	Forecasting in Business and Economics
An additional three upper level ECON courses which must include ECON 3900 and/or ECON 3950	
Choose from one of the following elective streams, each composed of five courses.	
Elective courses – Mathematics stream	
STAT 3060	Applied Regression Analysis
MATH 3160	Differential Equations 2
MATH 3400	Intro to Linear Programming
MATH 4410	Modelling of Discrete Optimization Problems
Plus one upper level MATH elective	
Elective courses – General stream	
STAT 3060	Applied Regression Analysis
Four of the following:	
MATH 3020	Introduction to Probability
MATH 3030	Introduction to Stochastic Processes
STAT 3050	Introduction to Statistical Inference
MATH 3160	Differential Equations 2
MATH 3400	Intro to Linear Programming
STAT 4040	Analysis of Variance
MATH 4410	Modelling of Discrete Optimization Problems
Plus any upper level MATH/STAT elective	
Elective courses – Statistics stream	
MATH 3020	Introduction to Probability
STAT 3060	Applied Regression Analysis
Choose three of the following courses:	
MATH 3030	Introduction to Stochastic Processes
Any upper level STAT elective	
Students who choose not to take MATH 3030, must take 9 credits of STAT electives.	

Program Contacts

Chair of Economics: Email elatif@tru.ca | Phone 250-371-6026

Math Program Coordinator: Email taylor@tru.ca | Phone 250-371-5987

Major in Mathematical Sciences

The Department of Mathematics and Statistics offers a BA in Mathematics, BSc in Mathematics and BSc in Mathematical Sciences, as well as joint degrees with a variety of other disciplines. The BSc in Mathematical Sciences is a four-year degree program which combines mathematics, statistics, and computer science. It provides students with an excellent foundation to pursue work in data science. Analytical and problem-solving skills learned in mathematics are applicable to many disciplines. Many students are hired as tutors in the Math Help Centre and for summer research projects.

Year 1 and 2	
BIOL 1110 or 1210 or GEOL 1110 or 2050	3 credits
CHEM 1500	3 credits
COMP 1130 and 1230	6 credits
ENGL 1100 or 1110[1],	3 credits
(or two of ENGL 1100 , 1110, 1120, 1140 and 1210),	(6 credits)
MATH 1130 and 1230 or MATH 1140 and 1240	6 credits
MATH 1700 and 2700 [2]	6 credits
PHYS 1100 or 1150	3 credits
CMNS 2290 or 2300, [1]	3 credits
MATH 2110, 2120 and 2200	9 credits
COMP 2130 and 2230	6 credits
STAT 2000	3 credits
Elective[3]	6-9 credits
Year 3 and 4	
MATH 2240, 3030, 3070 and 3400	12 credits
MATH 3020	3 credits
COMP 3050, 3520 and 4520	9 credits
Two of: COMP 3130, 3710, 4320, 4340, 4920	6 credits
STAT 3050, 3060 and 4040	9 credits
Electives[3]	24 credits

1	Students with a B or higher in ENGL 1100 or 1110 may proceed into CMNS 2290 or 2300 in their second year without a second first-year English course; students with less than a B in first- year English must take another 3 credits of 1000-level English before their second year CMNS requirement.
2	MATH 1380 and 1390, or COMP 1380 and 1390 may be substituted for MATH 1700
3	Electives must include 9-12 credits in at least two disciplines outside of science (other than English). The remaining elective credits may be chosen from any discipline; 12 of these must be in courses numbered 3000 or higher.

Related Programs

Bachelor of Arts in Mathematics

Bachelor of Science in Computing Science and Mathematics

Physics Programs

The physics faculty strives to provide an environment where academic excellence and technical relevance are delivered in a learner-centered atmosphere. A co-operative education option is also available for the major in physics.

Physics Program Contact

Email physics@tru.ca | Phone 250-828-5454

Major in Physics

Year 1	
BIOL 1110 or 1210 or GEOL 1110 or 2050[1]	3 credits

CHEM 1500 and 1510 or CHEM 1500 and 1520	6 credits
COMP 1520 or COMP 1130[1]	3 credits
ENGL 1100 or 1110[2]	3 credits
(OR any two of ENGL 1100, 1110, 1120, 1140 and 1210)[2]	(6 credits)
MATH 1130 and 1230 or MATH 1140 and 1240	6 credits
PHYS 1100 and 1200 or PHYS 1150 and 1250[3]	6 credits
Electives [4]	0-3 credits
Year 2	
CMNS 2290 or 2300[1,2]	3 credits
MATH 2110	3 credits
MATH 2120	3 credits
MATH 2240	3 credits
MATH 3170	3 credits
PHYS 2000	3 credits
PHYS 2150	3 credits
PHYS 2200	3 credits
PHYS 2250	3 credits
Electives[4]	3 credits
Year 3 and 4	
PHYS 3080	3 credits
PHYS 3090	3 credits
PHYS 3100	3 credits
PHYS 3120	3 credits
PHYS 3160	3 credits
PHYS 3200	3 credits
PHYS 3250	3 credits
PHYS 3400	3 credits
PHYS 4400	3 credits
Physics Electives[5]	12 credits
Electives[4]	21 credits
[1] Should be taken in first or second year.	
[2] Students with a B or better in ENGL 1100 or 1110 may proceed into CMNS 2290 or 2300 in their second year; students with less than a B in first year English must take another 3 credits of 1000-level English before their second year CMNS requirement.	
[3] Recommended course for students planning on a major program	
[4] Electives must include 9-12 credits in at least two disciplines outside of science (other than English). The 15 remaining elective credits may be chosen from any discipline; 6 of these credits must be in courses numbered 3000 or above.	
[5] **Physics Electives include:**	
PHYS 3140	3 credits
PHYS 3150	3 credits
PHYS 3300	3 credits
PHYS 3500	3 credits
PHYS 4140	3 credits
PHYS 4500	3 credits
PHYS 4480	3 credits
Note: Not all upper-level physics courses are offered every year, but they will be alternated over a two-year period.	

Program Planning

Students should begin planning their upper-level course programs no later than at the start of their second-year. This is particularly important in those major programs in which there is little flexibility in course selection. Although the General Science program allows students a good deal of flexibility in course selection, it is very important that students pay close attention to the prerequisite requirements of various courses. Failure to do so may severely limit the courses students may enrol in during any one year. Students are strongly advised to consult with a TRU Academic Advisor or the BSc Advisor to assist them with their program planning. Normally, students meet with the BSc advisor in the spring of their second year.

Entry into Year 3

Students currently registered in science at TRU will automatically be admitted to the third year of the degree program once they have met the requirements listed below.

Students new to TRU, or students currently in a TRU non-science program must apply to the third-year of the BSc program in either a major program or the General Science program. Applications must be received by Admissions by April 15. Students accepted into the program are required to select their courses for the upcoming year in consultation with the BSc Advisor. Late applications will only be considered if space is available.

Program Contact

BSc 3rd and 4th year Program Advisor: Phone 250-828-5409 | Email jrosvick@tru.ca

Academic Requirements: Entry into Year 3

A minimum grade point average of 2.0 for all previous university credit courses attempted.

Completion of 54 or more TRU credits which include:

- 6-9 TRU credits from English including 3 or 6 credits from ENGL 1100, 1110, 1210 (depending on the grade obtained in the first English course taken) and CMNS 2290 or 2300
- Minimum of 18 credits in introductory courses in science and mathematical and computing science as specified in section 4. a) under Graduation Requirements in the TRU Calendar
- Minimum of 6 credits in 2000-level science courses

Entry into Year 4

Completion of 84 or more TRU credits of which 50 or more credits must be in Science and Mathematical and Computing Science.

Program Approval: Third- and Fourth-Year Students

Students applying for admission to the third- and fourth-years of the major or General Science Programs must have their proposed course programs approved by the BSc Advisor each year before registration.

Limitation of Enrolment

It may be necessary to limit enrolment in certain courses if the demand is greater than the resources available. When enrolment becomes limited, admission to 3000 and 4000 level courses will be selective and students having the highest overall grade point averages, and those who require specific courses for graduation, will be given preference.

Graduation Requirements

BSc Degree (Major) and BSc Degree (General Science)

1. Completion of at least 120 TRU course credits with a minimum cumulative GPA of 2.0. (Up to 60 credits may be transferred from another institution.) These credits may NOT include BIOL 1040,

BIOL 1050, MATH 1000, MATH 1100, MATH 1420, MATH 1900, any physical education activity courses or any non-academic courses. If in doubt, students should contact an academic advisor or the BSc Advisor. Remedial courses with course numbers less than 1000 are also excluded.

2. At least 72 credits in science disciplines (biology, chemistry, computing science, forestry, geology, mathematics, natural resource science, physical geography, physics or statistics).
3. At least 18 credits in courses outside of science including at least 6 credits of English and 9 to 12 credits in at least two disciplines other than English. These credits may include no more than 3 credits from one of STSS 1030, 1040, 1050, 1060, 1080 or EDCP 1010. Students planning to take either of these courses must do so during their first or second year.

Specific lower-level requirements:

- 24 (or 27*) credits of introductory science including:
- 6 credits in mathematics (MATH 1130/1230, MATH 1140/1240 or MATH 1150/1250)
- 3 credits of chemistry (CHEM 1500)
- 3 credits of physics (PHYS 1100 or PHYS 1150)
- 3 credits of computing science
- 3 credits of biology (BIOL 1110 or BIOL 1210); or
- 3 credits of geology (GEOL 1110 or GEOL 2050)
- 6 (or 9*) other credits of introductory science as required for a student's major or area of concentration.
- See specific requirements for each degree area.

*Required for students majoring in Biology, Environmental Chemistry or Chemical Biology

- 6 to 9 credits of English including:
- 3 credits first year English with a grade of B or better (ENGL 1100, ENGL 1110, ENGL 1120, ENGL 1140, ENGL 1210) or 6 credits of first year English; and
- 3 credits of second-year CMNS (CMNS 2290 or CMNS 2300)
- 24 to 30 credits in other first- and second-year courses, for a total of 60 credits. (See specific requirements for each degree area.)

Note: Students should be careful to include courses which are prerequisite to any 3000/4000 level courses which are required in their chosen program.

Specific upper-level requirements:

- At least 48 credits in courses numbered 3000 or above including

For a BSc Degree (Major):

- 30 to 41 credits in courses numbered 3000 or above in the area of the major as outlined under the individual major options
- The remaining upper-level credits may be from any area of arts, humanities, business, or science

For a BSc Degree (Major) With a Minor:

- Meet the requirements of the BSc Major; and
- 18 credits in courses numbered 3000 or above in a discipline or approved area different from the major.
- Some specific minor programs are under development.

For a BSc Degree (General Science):

- 18 credits in courses numbered 3000 or above from one of the areas of biology, chemistry, earth sciences, mathematical and computing science (computing science, mathematics, statistics) and physics; and
- 6 credits in courses numbered 3000 or above in each of two of the other areas listed above; or
- 18 credits in courses numbered 3000 or above from each of two of the areas of biology, chemistry, earth sciences, mathematical and computing science (computing science, mathematics, statistics) and physics
- The remaining upper-level credits may be from any area of arts, humanities, business, or science.

Upper-Level Course Offerings

All upper-level science courses listed in the specific program listings sections of this calendar are planned to be offered; however, these course listings are subject to change without notice.
There is no guarantee that specific courses listed will be available. Please check with the BSc Program Advisor for availability of courses in any particular year.

Bachelor of Natural Resource Science

A four-year degree program open to undergraduate university students. Students may take up to seven years to complete the program on a part-time basis. Graduates receive a Bachelor of Natural Resource Science (BNRS) degree.

Learning Options

Full-time or part-time study

On-campus: The degree program is offered on the Kamloops campus. A selection of first and second year courses are offered at the Williams Lake campus.

Program start dates: Students may enter the program in fall, winter, or summer semester.

Distance Education: Many courses are available by distance education. Please visit tru.ca/distance/courses for current course offerings.

Program Overview

This unique program consists of 120 credits which can be completed in four or five-years on a full-time basis, or up to seven-years on a part-time basis. Students take courses in biology, chemistry, ecology, scientific methods, and sector-specific resource management skills. Students learn problem solving, oral and written communication skills, and integration of various disciplines in both an independent and team environment.

The BNRS degree program prepares students for a wide range of natural resource sector careers and for further study in graduate school. Students will be ready to work in resource management and

planning or government or industry. Upon graduation, students will have acquired a wide range of technical abilities in assessing the status of ecosystems. This assessment covers aspects such as forestry, fisheries, range, and wildlife management.

By understanding the scientific, economic, and social basis of natural resource issues, graduates of the program will be able to effectively interface between diverse interest groups, all having a stake in how our terrestrial and aquatic ecosystems are managed.

Fieldwork experience

Many of the courses offered by the Natural Resource Science Department include a field component. As students progress through the program, they will gain field experience in areas including vegetation analysis, soil analysis, forest stand measurements, lake analysis, and vertebrate and invertebrate sampling techniques.

Course field trips are numerous and diverse. They may include visits to the TRU Education and Research station adjacent to Wells Gray Provincial Park, grassland ecosystems, coastal and interior forest ecosystems, forest research stations, active mining sites (reclamation) local ranches, and fish hatcheries (locations may changes from year to year).

Admission Requirements

1. BC Grade 12 or equivalent, or mature student status or previous post-secondary experience.
2. English 12/English 12 First Peoples with a minimum of 73% or equivalent.
3. Pre-calculus 12 with a minimum of C+ (or equivalent).
4. Biology 11 (or equivalent), Chemistry 11 (or equivalent). Students with Biology 12 (or equivalent), Chemistry 12 (or equivalent) and Physics 12 (or equivalent) will be given preference.
5. A minimum cumulative GPA of 2.0 each year.

Students may apply to enter the BNRS degree program at the first, second or third-year levels. There is no entry into the program at year four.

All applications will be evaluated on the basis of GPA and additional documentation stating interest in natural resources and previous outdoor experience. Applicants will be notified if an interview is required.

Application

Students apply online at Apply for Admission and submit the following documentation in support of their application:

- Official transcripts from all secondary and post-secondary institutions attended, or official interim grades

Applications will be evaluated on the basis of GPA. Achievement of the minimum GPA does not guarantee entry into the program.

Co-operative Education

Co-operative Education allows students to integrate academic studies with paid periods of relevant experience. Students alternate between periods of on-campus, full-time study, and work terms, which are full-time, paid employment. Students are expected to complete multiple work terms in more than one season of the year.

Securing a work term in the Co-op program is competitive and the number of positions available will depend on the number of participating employers. Students are not guaranteed a work term.

Students must complete all registered first year courses, have a cumulative GPA of 2.33 to enter the NRS Co-op option and must maintain a cumulative GPA of 2.33 to remain eligible for Co-op.

Completion of COOP 1000 is mandatory prior to a student's first work term to maintain eligibility for the Co-op Education program. Refer to the Co-operative Education section of the calendar for detailed information on Co-op policies and procedures and tuition fees.

Bachelor of Natural Resource Science sample Co-op time pattern:

Term	Sep – Dec	Jan – Apr	May - Aug
Year 1	Academic Semester	Academic Semester	Co-op Work Term
Year 2	Academic Semester	Academic Semester	Co-op Work Term
Year 3	Academic Semester	Academic Semester Or Co-op Work Term	Co-op Work Term
Year 4	Academic Semester	Academic Semester	Graduation

Transfer to TRU

Course equivalencies from other institutions will be based upon the British Columbia Transfer Guide, or a review of course outlines for courses not included in the Guide.

BC Forestry or Natural Resource Technology graduates who achieve at least a 65% overall average, including a minimum of 70% or a 'B-' in Computing, Measurements and Statistics courses, will take the following courses in the first year of the BNRS program. Following successful completion of these courses, students enter Year 3. Technology graduates will have two electives in the program.

Fall Semester	Winter Semester
BIOL 1110	BIOL 1210
CHEM 1500	CHEM 1510
ECON 1900	CMNS 2300
NRSC 1120	NRSC 1220
NRSC 2100	NRSC 2200
NRSC 2230	
19 credits	**15 credits**

Program Requirements

Year 1 – Semester 1 (15 credits)	
BIOL 1110	Principles of Biology 1
ENGL 1100	Introduction to University Writing
NRSC 1120	Dendrology 1
MATH 1150	Calculus for the Biological Sciences 1
NRSC 1110	The Science and Management of Natural Resources
Year 1 – Semester 2 (15 credits)	
BIOL 1210	Principles of Biology 2
ECON 1900	Principles of Microeconomics

CMNS 2300	Critical Thinking and Writing for Science and Technology
NRSC 1220	Dendrology 2
ENGL 1110** AGSC 2200 or Elective*	Critical Reading and Writing **or** Food Production at a Local Level and Beyond **or** Elective
* See the Department Program Advisor before selecting an elective	
** Students achieving a grade of B or higher in ENGL 1100 will not be required to take ENGL 1110. Students not taking ENGL 1110 must take a 3 credit elective.	

Year 2 – Semester 1 (16 credits)	
BIOL 3000	Biometrics
CHEM 1500	Chemical Bonding and Organic Chemistry
NRSC 2000	Introduction to Study of Soils
NRSC 2100	Forest Ecology and Silvics 1
NRSC 2230	Geographic Information Systems
Year 2 – Semester 2 (15 credits)	
CHEM 1510	Principles of Chemistry
NRSC 2110	Forest Mensuration
NRSC 2200	Forest Ecology and Silvics 2
NRSC 3000	Diversity and Ecology of the Vertebrates
NRSC 3170	Ichthyology

Year 3 – Semester 1 (15 credits)	
NRSC 3200	Silviculture
NRSC 3260	Limnology
NRSC 4020	Natural Resource Entomology
NRSC 4030	Natural Resource Pathology
NRSC 4130	Fire Ecology and Management
Year 3 – Semester 2 (15 credits)	
ANTH XXX0	Anthropology
BIOL 3030	Population Biology
ECON 3730	Forest Economics
NRSC 3110	Grassland Ecology
NRSC 4250	Tropical Field Studies or Elective

Year 4 – Semester 1 (15 credits)	
ECON 3710 or ECON 3740	Economics of the Environment Land Use
NRSC 3210	Range Management
NRSC 4040	Wildlife Management 1
NRSC 4100	Fisheries Management
NRSC 4140	Policy and Planning
NRSC 4240 or Elective	Natural Resource Design
Elective	
Year 4 – Semester 2 (15 credits)	
NRSC 4050	Wildlife Management 2
NRSC 4110	Watershed Management
NRSC 4210	Conflict Resolution in the Natural Resources
NRSC 4230	Graduating Essay
NRSC 4250	Tropical Field Studies or Elective

Electives

Twelve elective credits may be included in the program. Any university-level credit course is acceptable as an elective, except those with equivalent content to core program courses. Selection of electives should be discussed with the Program Coordinator.

Program Promotion

Promotion from year-to- year will require a minimum grade of C (60%) in all required NRSC, ENGL and BIOL courses.

Honours Program

The Bachelor of Natural Resource Science (BNRS) Honours Program is for students with a strong academic standing and an interest in pursuing a career in research following their undergraduate program. Through the honours program students conduct scientific investigations and sample the field of research. Upon graduation students receive a BNRS honours degree. This is noted on both your transcripts and degree certificate.

The Honours program requires course work and completion of a thesis.

Admission to the honours program: Students pursuing a BNRS degree with honours normally apply for admission into the honours program prior to completion of their third Year. This will be in April for non-Co-op students or in December for Co-op students.

An application decision by the Department of Natural Resource Sciences will be made after grades for a student's final third-year semester have been tabulated.

Fourth-year standing: Students must have completed all courses in the first, second-and third- year of the BNRS program.

Students must maintain a GPA of 3.33 during their first-second and -third years in the BNRS program.

Supervision: A full-time faculty member (lecturer) from the Department of Natural Resource Sciences must agree to act as supervisor for the student's thesis.

Program Requirements

Honours students take the following courses in the last year:

Semester 7

Year 4 – Semester 1 (17 credits)	
NRSC 3210	Range Management
NRSC 4040	Wildlife Management 1
NRSC 4100	Fisheries Management
NRSC 4140	Policy and Planning
NRSC 4240	Research Design
NRSC 4980	Honours Seminar
NRSC 4990	Honors Thesis
1 Elective	
Year 4 – Semester 2 (18 credits)	
ANTH XXX0	Anthropology
NRSC 4050	Wildlife Management 2
NRSC 4110	Watershed Management
NRSC 4210	Conflict Resolution
NRSC 4980	Honours Seminar
NRSC 4990	Honours Thesis
Minimum credits required to graduate with the BNRS (Hons) degree: 125	

Thesis Project

The BNRS Honours program requires the completion of a thesis.

The selection of the thesis project is the responsibility of the student and the thesis supervisor. The general criteria is that the thesis should present a piece of individual, original research that contributes to scientific knowledge. Students should work closely with the supervisor, and he or she should take the lead role in the collection and analysis of the data. Identification of the thesis project should be accomplished at the very latest by the end of September and a written Thesis Project Plan must be submitted to the student's supervisor and the Honours Coordinator by the end of the sixth week of classes in September.

It is a student's responsibility to find a thesis supervisor. Faculty members are under no formal obligation to supervise honours students. Additionally, there is no limit to how many students each faculty member may supervise. Neither the Department of Natural Resource Sciences nor Thompson Rivers University is obliged to identify a supervisor, even in the event that students meet the academic criteria needed for entry into the honours Program.

Requests to have scientists from outside the department act as supervisors are handled on a case-by-case basis. The proposed supervisor will generally be required to apply to the department for authorization to supervise the student. Application forms for external supervisors are available through the department program assistant.

The Thesis Examining Committee shall be composed of the Honours Program Coordinator, the thesis supervisor, and at least one other faculty member from TRU, or under special conditions, a scientist or authority from outside the TRU community. In cases where the Honours Program Coordinator also is the thesis supervisor, then an additional faculty member will be appointed to the committee.

A form listing the tentative title of the thesis and the Thesis Examining Committee must be submitted to the Honours Program Coordinator before the end of the fall semester.

Minor in Environmental Economics and Sustainable Development

Completion of

- 12 credits of: ECON 3410, ECON 3690, ECON 3700, ECON 3710, ECON 3730, ECON 3740, ECON 3990, ECON 4720 ECON 4990.
- 6 credits of BIOL 3020 or BIOL 3030 or BIOL 3100 or 3240 or 3290 or 3430 or 4020 or 4090 of 4100 or 4160 or 4260 or 4270.
- CHEM 3010 or 3020
- An upper-level geology course
- PHIL 4350
- An upper-level ECON course listed above

Professional Certification

Completion of the BNRS degree fulfills the academic requirements of the BC Institute of Agrologists and Professional Biologists.

Program Contact

Program Assistant 250-828-5467 | Program Advisor 250-828-5462

Web: tru.ca/nrs

Environmental Studies Certificate

Learning Options

Study full-time or part-time on the TRU Kamloops campus.

Program start dates: Students may enter the program in September, January or May if they are taking courses on-campus.

Some distance courses are also based on September or January start dates, while others offer the ability to start at any time.

Program Requirements

Environmental Studies Certificate	
BIOL 1110	Principles of Biology 1
BIOL 1210	Principles of Biology 2
NRSC 1120	Dendrology 1
NRSC 1220	Dendrology 2
GEOG 1000	Planet Earth (L)
GEOG 1100	Introduction to Environmental Studies and Sustainability
GEOG 2020	Weather, Climate and Global Environmental Change
CHEM 1500	Chemical Bonding and Organic Chemistry
CHEM 1510 or CHEM 1520	Fundamentals of Chemistry Principles of Chemistry
GEOL 1110	Introduction to Physical Geology
GEOL 2050	Geological Time

Program Contact

Program Assistant Phone 250-828-5467 | Email shbennett@tru.ca

Forestry Transfer Program

Learning Options

Study full-time or part-time on the TRU Kamloops campus.

Program start dates: Fall, winter, or summer semester.

Distance Education: Many courses are available by distance education. Visit tru.ca/distance for more information.

Program Overview

The Faculty of Forestry at UBC offers four-year degree programs of undergraduate study in five areas of forestry: Forest Resources Management, Forest Operations, Forest Science, Wood Science and Industry, and Natural Resource Conservation. The first two years are designed to prepare students for entry into the profession of forestry and the last two years for careers in a specialized field.

TRU offers the first general year of Forestry and the second year of Forest Resource Management, Forest Science, Natural Resource Conservation, and Forest Operations.

Admission Requirements

1. BC Grade 12 (or equivalent), or mature student status
2. Pre-calculus 12 with a minimum C+ (or equivalent)
3. English 12/English 12 First Peoples with a minimum of 73% (or equivalent)
4. Two of Biology 11*, Chemistry 11, or Physics 11, —All three are strongly recommended.
5. One of Biology 12, Chemistry 12 or Physics 12

Biology 11 is the minimum requirement for entry into BIOL 1110 at TRU.

Students entering from first year Science
Students may enter second-year Forest Resource Management after completing a first-year science program at TRU, or its equivalent.

Applicants must have completed:

BIOL 1110 or BIOL 1210
CHEM 1500 or CHEM 1510
PHYS 1100/1200 or PHYS 1150/1250
ENGL 1100 or 1110 or 1210 (any one)
MATH 1140/1240 or MATH 1150/1250
STAT 2000 or BIOL 3000

Second Year:

Fall Semester	Winter Semester
ECON 1900	COMP 1000*
NRSC 1120	ECON 1950
NRSC 2000	NRSC 1220
NRSC 2100	NRSC 2110
GEOG 1220	NRSC 2200
NRSC 1110	

*3 credits of Introduction to Computing

Application Process

1. Apply online.
2. Submit supporting documentation, including:
   - Official high school and/or previous secondary and post-secondary education record.
   - An official copy of interim or final grades.

Applicants should submit their application and related supporting documentation as soon as requirements are completed.

Students are notified in writing by TRU Admissions if they are accepted into the program.

Prior to course registration, students are asked to arrange a meeting with the Program Coordinator to discuss course requirements.

Transfer to UBC

Students who have completed the required first or second year courses with a grade point average of at least 2.50 are eligible to apply for admission to the UBC Faculty of Forestry. GPA is calculated over all attempts (including failures) in all courses. Admission to the Faculty of Forestry may be competitive and chances of acceptance increase with GPA standing.

Course Requirements for Forest Science

First Year:

Fall Semester	Winter Semester
BIOL 1110	BIOL 1210
CHEM 1500	CHEM 1510
ENGL 1100 or 1110	ENGL 1110 or 1210
MATH 1140 or 1150	GEOG 1220
NRSC 1110	MATH 1240 or 1250

Second Year:

Fall Semester	Winter Semester
BIOL 2130	BIOL 3130
CHEM 2120	CHEM 2220
NRSC 1120	NRSC 1220
NRSC 2100	NRSC 2000
STAT 2000 or BIOL 3000	NRSC 2200

Course Requirements for Natural Resource Conservation

First Year:

Fall Semester	Winter Semester
COMP 1000 *	BIOL 1210
ECON 1900	ENG 1110/1210
ENGL 1100 or 1110	ECON 1950
NRSC 1110	NRSC 1220
NRSC 1120	MATH 1140 or 1150 or 1400

* 3 credits of Introduction to Computing

Second Year:

Fall Semester	Winter Semester
NRSC 2000	BIOL 4160
NRSC 2100	GEOG 1220
GEOG 1120	NRSC 2200
SOCI 1110	SOCI 1210
BIOL 3000 or STAT 2000	Elective

Course Requirements for Forest Operations

First Year:

Fall Semester	Winter Semester
BIOL 1110	BIOL 1210
ENGL 1100 or 1110 or 1210	COMP 1000 *
NRSC 1120	ECON 1900
MATH 1140 or 1150	NRSC 1220
NRSC 1110	Elective

* 3 credits of Introduction to Computing

Second Year:

Fall Semester	Winter Semester
NRSC 2000	BIOL 4160
NRSC 2100	ECON 3730
NRSC 4130	NRSC 2110
STAT 2000 or BIOL 3000	NRSC 2200
Elective	Elective

TRU does not offer Forest Operations 1 and 2 which are ordinarily taken in year 2 at UBC. Students should see the Program Coordinator to discuss their options.

Course Requirements for Forest Resource Management

First Year:

Fall Semester	Winter Semester
BIOL 1110	BIOL 1210
ENGL 1100 or 1110	ECON 1900
NRSC 1120	NRSC 1220
MATH 1140 or 1150	GEOG 1220
NRSC 1110	Elective

Second Year:

Fall Semester	Winter Semester
CHEM 1500	COMP 1000*
PHYS 1100 or 1150	ECON 3730
NRSC 2000	NRSC 2110*
NRSC 2100	NRSC 2200
STAT 2000 or BIOL 3000	NRSC 3170
Elective	Elective
*FIRST 2210 is taken in year 3 at UBC.	

* 3 credits of Introduction to Computing

Program Contact

Program Assistant Phone 250-828-5467 | sbennett@tru.ca

Associate of Science Degree

The Associate of Science degree is a two-year undergraduate program. Graduates receive an Associate of Science degree (ASc).

Learning Options

Full-time or part-time study

On-campus: The full degree is offered on the main campus of TRU in Kamloops; a selection of first- and second-year courses are offered at the Williams Lake campus.

Program start dates: Students may enter the program in fall, winter, or summer semester.

Distance Education: Many courses are available by distance education. For greater flexibility, TRU also offers the Associate of Science – Open Learning degree.

Program Overview

The Associate Degree is designed to provide an educational experience that lays a solid foundation for further study. Students are required to complete a broad range of course offerings balanced with in-depth study in science. Since many students will continue their studies, the requirements are sufficiently flexible to enable students to complete the required prerequisites for upper-level course work in their intended major.

Admission Requirements

Students entering the Associate of Science program are required to complete English 1100, along with specific science courses, which vary depending on the students' intended major (see below for details).

Prerequisites for English 1100 are English 12/English 12 First Peoples with a minimum of 73% or equivalent.

In general, the minimum prerequisite requirements for courses in the first year courses in the ASc programs are as follows:

Discipline	Prerequisites
Biology (all Majors)	Biology 11 or 12 with C+ or better
General Science Chemistry Environmental Chemistry	Chemistry 11 or Chemistry 0500 Pre-calculus 12 with C+ or better within the past 2 years or equivalent Physics 11 or equivalent
Computing Science Mathematics Mathematical Sciences Physics	Chemistry 11 or CHEM 0500 Pre-calculus 12 with C+ or better within the past 2 years or equivalent Physics 11 or equivalent

These are the minimum requirements. Students wishing to ladder into a major program should note that several major programs recommend courses with more stringent prerequisite requirements. Prospective students should become familiar with the course requirements for their intended major and consult the individual course descriptions for specific prerequisite requirements.

Students may upgrade their prerequisites while enrolled in the Associate of Science program.

Program Requirements

- 60 credits of first- and second-year courses (1000 and 2000 level), including:
  6 credits in first-year mathematics (at least 3 credits must be calculus).

  36 credits in science, including at least 3 credits in a laboratory science and at least 18 credits in second-year science in two or more subject areas (disciplines).
  Note: Computing Science courses are not classed as laboratory science courses.
  6 credits in first-year English.
  6 credits in arts other than English (excluding math and any courses containing a laboratory component).
  6 credits of first- or second-year courses, in arts, sciences or other areas

- A cumulative GPA of 2.0 for all courses counting towards the credential.
- At least 30 of the 60 credits of course work must be completed at TRU.

Note: No course may be used to meet more than one of the specific requirements.

Areas of Study

Students may choose to concentrate their studies in one area of the sciences. Suggested areas of study include biology, chemistry, physics, geology, mathematics, and computing science. Students who are interested in laddering credits from an Associate of Science degree into a Bachelor of Science degree should consult an Academic Advisor: advising@tru.ca.

Students interested in applying to science-based professional schools such as Medicine, Dentistry, Optometry and Veterinary Medicine should be aware that completion of an ASc degree does not qualify a student for entry to those programs. Students are generally required to have completed a minimum of three years of undergraduate studies in order to meet entry requirements.

Students are encouraged to consult the academic calendars of the professional schools in which they are interested. Further information can be found under the Bachelor of Science degree program.

Biology

Suggested courses:

BIOL 1110/1210
CHEM 1500/1510 or 1500/1520
PHYS 1100/1200 or 1150/1250
MATH 1130/1230 or 1140/1240 or 1150/1250
ENGL 1100 or 1110 *
(Or two of ENGL 1100, 1110, 1120, 1140, 1210)
COMP 3 credits
BIOL 2130/2340
6 credits from BIOL 2160, BIOL 2170, BIOL 2280, BIOL 2290
CHEM 2120/2220
CMNS 2290 or 2300
6 credits Arts/Humanities electives other than English
3 further credits if only 3 credits of first -year English are completed
* Students with a grade of B or better in ENGL 1100 (or 1110) may proceed to either of the required CMNS 2290 or 2300 in their second year; students with less than a B grade in their first-year English course are required to take another 3 credits of first-year English (1110, 1120, 1140 or 1210) before their second-year CMNS requirement

Chemistry

Suggested courses:

BIOL 1110 or BIOL 1210 or GEOL 1110 or GEOL 2050
CHEM 1500/1510 or 1500/1520
6 credits in first-year Mathematics, with at least 3 credits in calculus
6 in first-year English
36 credits in Science, which shall include at least 3 credits in a laboratory science and at least 18 credits in second-year Science in two or more subject areas. (Note: Computing Science courses are not classed as laboratory science courses.)
6 credits in Arts other than English (excluding Math and laboratory-based science courses).
A cumulative GPA of 2.0 for all courses counting towards the credential.
At least 30 of the 60 credits of course work must be completed at TRU
PHYS 1100/1200 or 1150/1250
MATH 1130/1230 or 1140/1240 or 1150/1250
ENGL 1100 or 1110*
(Or two of ENGL 1100, 1110, 1120, 1140, 1210)
COMP 3 credits
CHEM 2120/2220
CHEM 2100/2160/2250
MATH 2110/2120
CMNS 2290 or 2300
6 credits Arts/Humanities electives other than English
3 further credits if only 3 credits of first-year English are completed
* Students with a grade of B or better in ENGL 1100 (or 1110) may proceed to either of the required CMNS 2290 or 2300 in their second-year; students with less than a B grade in their first-year English course are required to take another 3 credits of first-year English (1110, 1120, 1140 or 1210) before their second-year CMNS requirement.

Physics

Suggested courses:

BIOL 1110 or 1210 or GEOL 1110 or 2050
CHEM 1500/1510 or 1500/1520
PHYS 1150/1250 (preferred) or PHYS 1100/1200
MATH 1130/1230 or 1140/1240
ENGL 1100 or 1110*
(Or two of ENGL 1100, 1110, 1120, 1140, 1210)
COMP 3 credits
MATH 2110/2120/2240
PHYS 2000/2150/2200/2250
CMNS 2290 or 2300
6 credits Arts/Humanities electives other than English
3 further credits if only 3 credits of first-year English are completed
* Students with a grade of B or better in ENGL 1100 (or 1110) may proceed to either of the required CMNS 2290 or 2300 in their second-year; students with less than a B grade in their first-year English course are required to take another 3 credits of first-year English (1110, 1120, 1140 or 1210) before their second-year CMNS requirement

Geology

Suggested courses:

GEOL 1110
CHEM 1500/1510 or 1500/1520
PHYS 1100/1200 or 1150/1250
MATH 1130/1230 or 1140/1240 or 1150/1250
ENGL 1100 or 1110*
(Or two of ENGL 1100, 1110, 1120, 1140, 1210)
COMP 3 credits
GEOL 2050/2100/2150/2290
CMNS 2290 or 2300
6 credits second year science courses other than GEOL
6 credits Arts/Humanities electives other than English
3 credits in other first or second year courses
3 further credits if only 3 credits of first-year English are completed
* Students with a grade of B or better in ENGL 1100 (or 1110) may proceed to either of the required CMNS 2290 or 2300 in their second-year; students with less than a B grade in their first-year English course are required to take another 3 credits of first-year English (1110,1120, 1140 or 1210) before their second-year CMNS requirement

Mathematics

Suggested courses:

BIOL 1110 or 1210 or GEOL 1110 or 2050
CHEM 1500
PHYS 1100 or 1150
MATH 1130/1230 or 1140/1240
ENGL 1100 or 1110*
(Or two of ENGL 1100, 1110, 1120, 1140, 1210)
COMP 3 credits
MATH 2110/2120/2200
STAT 2000
CMNS 2290 or 2300
6 credits second year science courses other than MATH
6 credits arts/humanities electives other than English
6 credits in other first or second year courses
3 further credits if only 3 credits of first-year English are completed
* Students with a grade of B or better in ENGL 1100 (or 1110) may proceed to either of the required CMNS 2290 or 2300 in their second-year; students with less than a B grade in their first year English course are required to take another 3 credits of first-year English (1110, 1120, 1140 or 1210) before their second-year CMNS requirement

Computing Science

Suggested courses:

BIOL 1110 or 1210 or GEOL 1110 or GEOL 2050
CHEM 1500
PHYS 1100 or 1150
MATH 1130/1230 or 1140/1240
ENGL 1100 or 1110*
(Or two of ENGL 1100, 1110, 1120, 1140, 1210)
COMP 1130, 1230, 2230, 2210, 2920
MATH 1700 MATH 2120
STAT 2000
CMNS 2290 or 2300
COMP 2680
6 credits Arts/Humanities electives other than English
3 credits in other first- or second-year courses
COMP 2130
* Students with a grade of B or better in ENGL 1100 (or 1110) may proceed to either of the required CMNS 2290 or 2300 in their second-year; students with less than a B grade in their first- year English course are required to take another 3 credits of first-year English (1110, 1120, 1140 or 1210) before their second-year CMNS requirement

Applied Sustainable Ranching

The Applied Sustainable Ranching Program is the first of its kind in British Columbia. During this program, students will gain the expertise to build and sustain regenerative agriculture enterprises within BC's ranching industry and apply that knowledge to agricultural businesses in any region. By the end of the program, students will have gained an understanding of ecosystem management in the last intact temperate grassland in the world.

This program will give graduates the tool kit for building and managing diversified, resilient ranching operations in BC and around the world, as well as the expertise to apply to any agriculture enterprise in any region. For more information please see: tru.ca/williamslake/programs/ranching.

First Nations Applied Land Management Certificate

This is post-secondary certificate program is offered by TRU in partnership with the Tulo Centre. Graduates receive First Nations Applied Land Management Certificate.

Learning Options

Part-time study on-campus: The certificate is a one-year credential designed to be completed part-time over one and a half years. It is offered as one-week block courses on the TRU campus followed by project work being completed in the student's home communities.

Program Overview

The certificate program will offer post-secondary training in land-use planning to First Nations learners from the region, province and across Canada. The content of the program will allow students to acquire skills in surveying, mapping and land-use planning. The certificate will incorporate a blended approach in that the courses will be taught face-to-face in one week blocks followed by completion of projects by the students in their home communities.

The program graduates gain the knowledge necessary to support sustainable and responsible land use development in their communities. This knowledge is applied in practical projects in various First Nations throughout all eight courses in the certificate. A central theme of this certificate is that the knowledge developed in this certificate will be grounded in First Nations experiences and needs.

Admission Requirements

By recommendation from the Tulo Centre. The program is selective admission jointly administered with the Tulo Centre.

Program Requirements

First Nations Applied Land Management Certificate	
APNR 1010	Data Capture 1
APNR 1020	Introduction to Digital Mapping 1
APNR 1030	Land Use Planning 1 : Environmental Assessment
APNR 1040	Land Tenure
APNR 1060	Data Capture 2
APNR 1070	Digital Mapping 2
APNR 1080	Land Use Planning 2
APNR 1090	Research Project

Graduation: Successful completion of the eight courses that comprise the program with a C- or better in each course.

Application and program information contact:

Students apply by contacting the Tulo Centre. Phone 250-828-9858 | info@tulo.ca

Animal Health Technology Distance Education Diploma

A three-year online diploma program for those already working in a veterinary clinical setting. Accredited by the Canadian Veterinary Medical Association and the Ontario Association of Veterinary Technicians.

Learning Options

Distance Education: The AHT Distance Education diploma is offered online. Students can complete their education from anywhere in Canada, with no on-campus requirements.

Students may periodically delay enrolling in the next semester of the program but they must complete the entire program within four years of initial enrolment.

Continuing Education: Graduate Animal Health Technologists may take specific courses for Continuing Education credits.

Program start date: The program year begins in January.

Program Overview

The Animal Health Technology Distance Education Diploma program is designed to train students for employment as professionals in the field of veterinary medicine. Animal Health Technologists/Veterinary Technicians work under the supervision of veterinarians and veterinary scientists in a variety of areas including diagnostic testing, radiography, medical procedures, office protocol, animal nursing, anesthesia and surgical assistance.

Qualified students can obtain the theoretical portion of their training by distance education using a combination of technologies. The clinical, hands-on experience, vitally important to a competent Animal Health Technologist (AHT)/Veterinary Technician (VT), is provided at their place of work. The AHTDE program is available to students anywhere in Canada. The AHTDE program has full accreditation from both the Canadian Veterinary Medical Association and the Ontario Association of Veterinary Technicians.

Successful completion of Year three of the AHTDE program will result in students being awarded an Animal Health Technologist Diploma.

Students must successfully challenge the Veterinary Technician National Board Exam (VTNE) and apply for registration with their provincial AHT/VT Association to be recognized as a Registered Animal Health Technologist/Registered Veterinary Technologist.

Admission Requirements

Must be a paid employee working in a Canadian veterinary clinic for a minimum of 20 hours per week while enrolled in the program.

Students must have completed the program prerequisites and have a signed Clinic Affiliation form.

Educational Requirements

1. Grade 12 or equivalent
2. Foundations of Math 11 or equivalent, C+ minimum grade
3. Chemistry 11 or equivalent, C+ minimum grade
4. Biology 11 or equivalent, C+ minimum grade
5. Biology 12, Chemistry 12 or Physics 12 C+ (or equivalent), C+ minimum grade

   Note: Biology 12 or BIOL 0600 is recommended.
6. English 12/English 12 First Peoples (or equivalent), C+ minimum grade

General Requirements

- Canadian citizenship or permanent resident status
- Evidence of **computer skills*.** Students must be familiar with basic word processing, email management (including posting attachments) and Internet navigation. Students must also be familiar with downloading and uploading videos, still images and documents and have the means to be able to do so. Exposure to a veterinary office management software program would be beneficial.
- A signed TRU **- Clinical Affiliation form** verifying:
  - That the student is an employee of the Veterinary Clinic and that they will be working a minimum of 20 hours per week when they are enrolled in the AHTDE program. The student must have been employed for a minimum of 4 months in their clinic prior to the start date of admission into the AHTDE program.
  - That a DVM or RAHT/RVT (with minimum 2 years post-graduate clinical experience) has agreed to be the "Clinical Mentor" for the student during the time they are enrolled in AHTDE program courses.
  - That the clinic meets or exceeds the College of Veterinarians of British Columbia Practice Standards cvbc.ca.
- Two reference forms - at least one of these from your potential Clinical Mentor, indicating their support of you taking the AHTDE program and confirming how long you have been employed at the clinic and that you are employed for a minimum of 20 hours per week – (volunteering does not apply).

The TRU AHTDE program reserves the right to limit class sizes. In the event that applications are over and above the program's capacity, applicants will be selected on a first come first served basis (based on complete application packages).

Application

Students apply online and submit a completed application package ***no later than September 30 for admission the following January.***

Required forms may be downloaded from AHT Distance Education Program web page at tru.ca/science/diplomas-certificates/aht/disted.

Failures and repeats

This is not a continuous entry program.

The program year begins in January. Any student that temporarily opts out of continuing on with the program must wait until the next yearly enrolment to recommence their studies.

Students must be aware that re-entry into the program is not guaranteed the following year and is dependent on class sizes and instructor availability.

Students who have previously failed in a health-related program and who subsequently applies for admission to the same program or to another health-related program will be regarded as a repeating student, unless they can show cause for being treated as a new student.

- A minimum of C in all courses and a cumulative GPA of 2.33 are required for promotion between semesters and for graduation in the program.
- One failure or withdrawal from a course will result in the student being required to withdraw from the program - consult the TRU AHTDE Program Coordinator.
- Students can reapply to the program after a period of one year. Students are expected to retake the course in which the failure occurred; once successful, continue on from there.

Students who receive a failing grade in a course for failure to meet objectives related to essential skills assignments, professional responsibility, professional accountability or patient safety may be refused re-admission to the program (or another health related program) at the recommendation of the Program Coordinator and the approval of the Divisional Dean.

Program Costs

In addition to tuition and fees, all expenses incurred by students during the duration of this program are the students' responsibility. This includes all work place expenses, textbooks and supplies, travel to clinical instructional sites, computer and Internet costs, invigilation costs, videotaping costs, mailing and phone charges, etc.

Program Requirements

The program is designed to be completed in a minimum of three years. There are three twelve-week semesters per year. During each semester students take a maximum of two courses.

Classes start in the beginning of January of each year.

Year 1	
ANHD 1010	Office Skills (semester 1)
ANHD 1100	Anatomy and Physiology 1 (semester 1)
ANHD 1120	Animal Nursing 1 (semester 2)
ANHD 1130	Animal Behaviour (semester 2)
ANHD 1110	Veterinary Parasitology (semester 3)
ANHD 1210	Veterinary Microbiology (semester 3)
ANHD 1900	Veterinary Clinical Studies 1
ANHD 1910	Veterinary Clinical Studies 2
ANHD 1920	Veterinary Clinical Studies 3
Year 2	
ANTH 2110	Veterinary Hematology (semester 4)
ANHD 2150	Immunology and Animal Diseases (Semester 4)
ANHD 2100	Anatomy and Physiology 2 (semester 5)
ANHD 2120	Animal Nursing 2 (semester 5)
ANHD 2130	Diagnostic Imaging (semester 6)
ANHD 2140	Pharmacology and Laboratory Mathematics (semester 6)
ANHD 2900	Veterinary Clinical Studies 4
ANHD 2910	Veterinary Clinical Studies 5
ANHD 2920	Veterinary Clinical Studies 6
Year 3	
ANHD 3140	Anesthesia (semester 7)
ANHD 3170	Animal Nursing 3 (semester 7)
ANHD 3110	Clinical Pathology (semester 8)
ANHD 3120	Intensive Care (semester 8)
ANHD 3160	Large Animal Science (semester 9)
ANHD 3150	Laboratory and Exotic Animals (semester 9)
ANHD 3900	Veterinary Clinical Studies 7
ANHD 3910	Veterinary Clinical Studies 8
ANHD 3920	Veterinary Clinical Studies 9

Graduation Requirements

A minimum of C in all courses and a cumulative GPA of 2.33 is required for promotion between semesters and for graduation in the program.

Program Contact

Program Coordinator: Phone 250-852-6331

Program Assistant: Phone 250-377-6104

Web: tru.ca/science/programs/aht/disted

Animal Health Technology Diploma

The Animal Health Technology Diploma is a two-year diploma program accredited by the Canadian Veterinary Medical Association. Graduates receive an Animal Health Technology (AHT) diploma.

Learning Options

Full-time: The program involves up to 30 class contact hours of lecture and laboratory per week. Students are also responsible for case study sessions and for providing routine daily care for University animals. This involves evening and weekend duty.

On-campus: Offered on the TRU Kamloops campus.

Program start dates: Year 1 runs from September to April. Year 2 runs from September until early June due to practicum sessions. The practicum sessions are divided into two time periods: mid-February to early-March; and the beginning of May to early June.

Program Overview

The AHT program is designed to train students for employment as professionals in the field of veterinary medicine. Animal Health Technologists work under the supervision of veterinarians and veterinary scientists in a variety of areas including diagnostic testing, radiography, medical procedures, office protocol, animal nursing, anesthesia and surgical assistance. A number of satisfying career options in the animal care industry are available for program graduates.

This program is accredited by the Canadian Veterinary Medical Association, and combines classroom and laboratory instruction, field and clinical experience with small and large animals. Students have daily hands-on experiences with small animals in the teaching facility on campus. Large animal work is carried out in a separate facility where students develop hands-on experience with livestock, wildlife and birds.

Animal Health Technology students have the potential to ladder into the BSc program at TRU and/or the Interdisciplinary degree program (BIS).

Admission Requirements

Educational Requirements

1. Grade 12 or equivalent
2. Foundations of Math 11 or equivalent, C+ minimum grade
3. Chemistry 11 or equivalent, C+ minimum grade
4. Biology 11 or equivalent, C+ minimum grade
5. Biology 12, Chemistry 12 or Physics 12 or equivalent, C+ minimum grade. **Biology 12 is recommended**
6. English 12/English 12 First Peoples or equivalent, C+ minimum grade

High school students must submit their official transcript (confirming grade 11 marks) and their grade 12 report cards, confirming enrolment of any relevant prerequisites in progress.

All other applicants please submit official transcripts for secondary school and post-secondary institutions attended.

General Requirements

1. Canadian citizenship or permanent resident status
2. Evidence of orientation to a veterinary practice (signature of veterinarian required). It is required that applicants **complete a minimum two weeks (80 hours)** working, volunteering or observing in a veterinary clinic.
3. Submission of completed questionnaire with application
4. One reference form from each of the following 3 areas:
    - current veterinary orientation site
    - other animal related (non-veterinary) experience site
    - any non-veterinary, non-animal work or volunteer experience
5. Submission of Language Proficiency Index (LPI) results if applicable.
6. Attendance at Program Orientation session upon invitation from the Animal Health Technology Department
7. Successful medical – upon acceptance

Admission to the AHT program is extremely competitive. Meeting the minimum requirements does not guarantee admission or an invitation to the program orientation session. The AHT program uses a selective enrolment process. This means that all applications are accepted up to the admission deadline date and after that date applications are assessed to determine if pre-admission requirements are met. Admission to the program is based on the following criteria:

1. Academic history
2. Exposure to veterinary practice either as a volunteer or as a paid employee (include reference form)
3. Other animal related experience such as on a farm, in an SPCA shelter, at a wildlife refuge, in research, etc. (include reference form)
4. Other non-veterinary related work or volunteer experience (include reference form)
5. Results of math test

Note: Applicants should have a sound secondary school background and an interest in working with and caring for animals. This includes such areas as farms, SPCA, wildlife refuges or any other animal oriented facility. Students should have a desire to develop manual and technical skills. A minimum of 80 hours of practical experience in a veterinary facility is essential for admission to the AHT program. **Consultation with practicing AHTs is strongly advised.** Successful applicants may be required to spend additional time at a veterinary facility before commencing class.

Application Process

Applications for admission to Animal Health Technology must be received by **February 15** for admission to fall intake. Admissions are selective for the 24 seats available. Students apply online and submit the required supporting documentation.

Candidates are responsible for ensuring that all the required documents are received by the application deadline. The educational requirements may be in progress when applying however, the applicant must submit proof of enrolment with their application and must submit interim grades by the application deadline. For non-high school applicants, the deadline for completion of courses in progress is April 30 prior to September admission.

Based on the information submitted with the application package, short-listed applicants will be invited to a mandatory orientation session which are typically held in Kamloops in March. The purpose of the orientation sessions is to ensure all short-listed applicants have a clear understanding of the AHT program and the profession. Orientation sessions provide in-depth information about student workload and responsibilities and offer the opportunity to meet the faculty and where possible, current students in the program. Applicants will also be required to take a math test during the orientation session.

At the discretion of the admissions committee, a telephone conference call may take place.

Using the combination of academic pre-requisites, results of the math test, and information included in the written application package (including work experience and references) each applicant is given an overall score. Based on this score, each applicant will be classified as: accepted into the program; waitlisted as an alternate for acceptance, or not accepted into the program

Applicants who are offered seats will be required to pay a tuition deposit fee by the deadline stated in their offer letter to confirm their seat in the program.

All successful candidates must be in class on the first day of the semester, or their seat will be forfeited and given to a waitlisted applicant.

Program costs

In addition to tuition and fees, students should budget additional monies for special clothing and equipment, BC Veterinary Technologists Association (BCVTA) membership and conference fees, Veterinary Technician National Examination, etc.

Students must also be prepared to bear the cost of travel to and from residency in areas away from Kamloops as required by such activity as clinical practicums, ranch practicums, BCVTA conference and field work experience (ANHT 2600). These activities/courses are mandatory components of the AHT program and advance notice will be given.

Students are also expected to receive a rabies immunization, administered at no cost by TRU Health Services once enrolled into the program, unless they are excused by a medical certificate or have proof of previous rabies immunization.

Program Requirements

Year 1 (37 credits)	
ANHT 1010	Laboratory Mathematics
ANHT 1090	Animal Behavior 1
ANHT 1990	Animal Behavior 2
ANHT 1510	Veterinary Terminology
ANHT 1520	Animal Nursing 1 (L)
ANHT 1620	Animal Nursing 2 (L)
ANHT 1530	Introductory Veterinary Immunology
ANHT 1540	Veterinary Office Management (L)
ANHT 1560	Pharmacology
MICR 1580	Veterinary Microbiology 1 (L)
ANHT 1590	Domestic Animal Anatomy and Physiology 1 (L)
ANHT 1690	Domestic Animal Anatomy and Physiology 2 (L)
ANHT 1670	Dentistry for Animal Health Technologists
ANHT 1720	Veterinary Clinical Pathology 1 (L)
ANHT 1730	Veterinary Clinical Pathology 2 (L)
ANHT 1800	Parasitology (L)
CMNS 1660	Occupational Writing for Animal Health Technology
MICR 1680	Veterinary Microbiology 2 (L)
Year 2 (41 credits)	
ANHT 2090	Animal Behaviour 3
ANHT 2200	Clinical Practicum
ANHT 2210	Clinical Cases 1
ANHT 2220	Clinical Cases 2
ANHT 2530	Large and Small Animal Diseases
ANHT 2540	Large Animal Science
ANHT 2550	Large Animal Clinics 1 (L)
ANHT 2560	Anesthesia for Veterinary Technologists (L)
ANHT 2570	Surgical Assistance 1 (L)
ANHT 2580	Diagnostic Imaging 1 (L)
ANHT 2590	Animal Nursing 3 (L)
ANHT 2600	Field Work Experience
ANHT 2620	Animal Nursing 4 (L)
ANHT 2650	Large Animal Clinics 2 (L)
ANHT 2660	Anesthesia and Critical Care for Veterinary Technologists (L)
ANHT 2670	Surgical Assistance 2 (L)
ANHT 2680	Diagnostic Imaging 2 (L)
ANHT 2690	Laboratory and Exotic Animals (L)
ANHT 2700	The Animal Health Technologist and Society
ANHT 2990	Animal Behaviour 4
Total credits	**78**

Two, 3-week clinical practicums take place at veterinary facilities during the second year of the program.

Failures and Repeats

Students who fail or withdraw from a course or courses during the program will be required to withdraw from the program at once.

Failing or withdrawing students should recognize that there is no guarantee of the opportunity to repeat. Demand for seats is such that space for course repeaters is unlikely to be available.

A student who fails to meet objectives of the program related to professional responsibility, accountability or patient safety may be refused re-admission to the program, at the recommendation of the Department Chairperson and the approval of the Divisional Dean.

Graduation Requirements

A minimum of C in all courses and a cumulative GPA of 2.33 is required for promotion between semesters and for graduation in the program. A total of 78 credits is required (all courses within program). Graduates receive an Animal Health Technology Diploma.

Program completion is expected within 2 consecutive years following entry. In the event of failure and at the discretion of the Program Chair, this may be extended to 3 consecutive years.

Program Contact

Program Coordinator: Phone 250-377-6079 |

Program Assistant: Phone 250-377-6104

Animal Welfare Certificate

The Animal Welfare Certificate program is an eight-month distance education certificate. Graduates receive an Animal Welfare Certificate.

Learning Options

Distance Education: Offered online on a continuous-entry basis

Program Overview

The Animal Welfare Certificate (a campus-based distance program) has been jointly developed by the British Columbia Society for the Prevention of Cruelty to Animals and TRU.

The program allows animal care workers, students and members of the public who wish to learn more about the animal humane field a way to increase their knowledge of animal welfare through distance education.

The program covers all aspects of running an animal shelter, including such topics as animal cruelty investigations, the human-animal bond, human conflict resolution and the connection between animal and child abuse.

Admission Requirements

- Grade 12 (or equivalent) or mature student status is recommended.

There are no course prerequisites.

Application

Students can apply online at any time at: tru.ca/campus/admissions/apply.

Laddering Credit to other Programs

The TRU Biology Department accepts either, but not both, AWCP 1700 or AWCP 1710 as a non-science elective. The arts program committee has accepted both AWCP 1700 and AWCP 1710 as "non-Arts" credit courses. The Social Work Program accepts AWCP 1700 and AWCP 1710 as general studies credits.

Program Requirements

The program is a distance education course that has no on-site campus requirements. Students receive printed course materials, videos and an instructional CD. Required texts are available through the TRU bookstore. The course assessment consists of several assignments that are contained in the text of the printed course materials. There are no exams. Students must achieve an overall average of 60% in their assignments to pass a course in the AWCP program.

The program is divided into two levels: General Level - AWCP 1700 and Advanced Level - AWCP 1710. Each level is comprised of a series of modules. Depending on prior experience students may choose to complete both levels in sequence, or start immediately on the second level. Students may complete only selected modules from one level, depending on individual requirements.

Completion of AWCP 1700 or AWCP 1710 will result in students obtaining a certificate of completion and undergraduate course credits at Thompson Rivers University. The program must be completed within eight months. A maximum of one three-month extension may be granted for an additional fee.

Program Contact

AWCP Program Assistant: Phone 250-377-6104

Web tru.ca/science/diplomas-certificates/aht/awcp.

Architectural and Engineering Technology Diploma

The Faculty of Science, Department of Engineering and Applied Science at TRU offers a three-year Architectural and Engineering diploma program. Graduates receive an Architectural and Engineering Technology (ARET) Diploma.

Learning Options

Full-time study: On-campus at the Kamloops campus
Program start: Fall

Program Overview

Architectural and Engineering Technology provides its graduates with the technical skills required to enter careers in the building design industry within the disciplines of Architectural design, Civil, Structural, Electrical and Mechanical Technology. Demands for highly skilled technologists and designers are met by the detailed, intense and comprehensive career preparation offered to students in this program.

The ARET program emphasizes the design processes in building technology, involving design projects for building structures, electrical, plumbing, lighting, and HVAC (heating, ventilating and air-conditioning) systems.

Courses cover architectural design, statics and strength of materials, structural analysis, fluid mechanics, electrical design, steel design, wood design and reinforced concrete design. Students also learn about construction management, construction contracts, specifications, estimating, building regulations, technical writing and construction surveying. Academic courses in mathematics, physics and English, including an applied research project provide students with a complete skill set.

Students use networked CADD workstations with the latest release of Autodesk software to develop computer-aided design and drafting skills. Students become proficient at using Civil 3D and Revit Architecture AutoCAD.

The ARET program is accredited by the Canadian Technology Accreditation Board (CTAB) in the Building discipline. Students enrolled in the program are eligible for a FREE student membership with the Applied Science Technologists and Technicians in BC. After graduation and two years of related experience, individuals can apply to become certified as an Applied Science Technologist (AScT) a widely recognized professional credential.

Career opportunities for ARET graduates include employment as building technologists, mechanical technologists, civil technologists, designers. Graduates are often employed by professional engineers, architects, general contractors, sub-contractors, and manufacturers, federal, provincial and municipal governments.

ARET graduates with additional work experience may progress to positions such as senior designers, specification writers, estimators, quantity surveyors and project administrators.

Admission Requirements

Educational Requirements:

1. BC Grade 12 or equivalent, or mature student status
2. Foundations of Math 12 or Pre-calculus 11 with a minimum 67% (C+) or equivalent
3. Physics 11 or Physics 0500, or equivalent
4. English 12/English 12 First Peoples with a minimum of 73% or equivalent

Students need a strong background in physics and math. Applicants whose math and physics prerequisites are more than five years old or applicants whose math and physics skills are weak should consider 'refresher' courses in these subjects prior to applying for the ARET program.

Application Process

Architectural and Engineering Technology program follows a limited admission process. The minimum documentation required for an application to be processed is:

1. A completed online application (including the application fee).
2. A copy of your interim or final high school grades and official transcripts from all post-secondary institutions attended

Official transcripts are required for admittance to the program, however they may be received after the application is processed.

Applications are accepted and admission is determined on a first applied, first admitted basis using the date by which applicants have met all of the admission requirements. Students are notified in writing when they are accepted into the program or placed on the waitlist. Once accepted, students are required to pay a $500 tuition deposit in order to secure their seat.

Re-Application —Students who were not accepted, or applied but did not attend last year, must submit a new application. Contact admissions at admissions@tru.ca to ensure that all required documentation is still on file and complete.

Program Requirements

Year 1 – Fall Semester	
ARET 1100	Graphical Communication (L)
ARET 1110	Computer Aided Design and Drafting (L)
ARET 1120	Introduction to Architectural Representation (L)
ARET 1200	Materials and Applications 1 – Specifications (L)
ARET 1500	Building Electrical Design (L)
MATH 1540 or MATH 1000**	Technical Mathematics 1 Pre-calculus
Year 1 – Winter Semester	
ARET 1300	Building Technology 1 (L)
ARET 1400	Civil Technology 1 (L)
ARET 1510	Building Lighting Design
ARET 1410	Construction Surveying
CMNS 1850 or ENGL 1100*	Occupational Writing for ARET Introduction to University Writing
MATH 1640 or MATH 1140 and MATH 1240**	Technical Mathematics 2 Calculus 1 Calculus 2
ARET 1410***	Construction Surveying (L)
Year 2 – Fall Semester	
ARET 2100	Computer Aided Design and Drafting 2 (L)
ARET 2200	Materials and Applications 2 - Estimating (L)
ARET 2210	Construction Management
ARET 2500	Building Plumbing Design (L)
PHYS 1510	Applied Physics 1 (L)
Year 2 – Winter Semester	
ARET 2120	Building Information Modeling (L)
ARET 2220	Applied Research Project Seminar
ARET 2300	Building Regulations
ARET 2400	Site Planning and Development (L)
ARET 2600	Statics and Strength of Materials
PHYS 1610	Applied Physics 2 (L)
Year 3 – Fall Semester	
ARET 3300	Building Design (L)
ARET 3400	Fluid Mechanics
ARET 3500	Building Services Theory (L)
ARET 3600	Structural Analysis
ARET 3620	Wood Design
CMNS 2850	Advanced Occupational Writing for ARET
Year 3 – Winter Semester	
ARET 3310	Building Technology 2 (L)
ARET 3510	Building HVAC Design(L)
ARET 3610	Steel Design
ARET 3630	Reinforced Concrete Design

Graduation from the program is granted to students who have achieved a GPA of 2.33 or better, and have successfully completed the Technical Report.

MATH 1540 and MATH 1640, or MATH 1000, MATH 1140 and MATH 1240 must be completed to fulfill ARET program requirements.

*Note: Consult course descriptions for ENGL 1100 prerequisite requirements.
**Note: Consult course descriptions for MATH 1000, MATH 1140 and MATH 1240 prerequisite requirements.
***Note: The ARET 1410 Construction Surveying course will run for weeks starting after the end of final exams.

Promotion

Admission to the second year of the program is granted to students who have successfully completed all first year courses and have achieved a minimum GPA of 2.33.

Admission to the third year of the program is granted to students who have successfully completed all second year courses and have achieved a minimum GPA of 2.33

Graduation

Students who successfully complete all of the required courses for the program, achieve a GPA of 2.33 or better, and successfully complete the Applied Research (Technical) Report will be awarded an Architectural and Engineering Technology (ARET) Diploma and should apply to graduate.

MATH 1540 and MATH 1640, or MATH 1000, MATH 1140 and MATH 1240 must be completed to fulfill the ARET graduation requirements.

Program Contact

ARET Co-Chair: Email mmarshall@tru.ca | Phone 250-371-5934
ARET Co-Chair: Email dparkes@tru.ca | Phone 250-828-5059

Computing Science Diploma

A two-year diploma program. Graduates receive a Computing Science Diploma (CS diploma). A Co-operative Education option is offered.

Learning Options

Full-time or part-time study: Most students complete the program through full-time study. A limited number of students may study part-time.
On-campus: Courses are offered at the Kamloops campus.
Program start date: Fall

Program Overview

Graduates from the TRU Computing Science Diploma (CS) are able to immediately become productive employees. They will be well qualified for a wide range of employment opportunities and for further study.

The program accommodates students who have just graduated from secondary school and more mature students who are seeking a career change or the opportunity to enhance their job skills.

All graduates will have considerable experience with programming languages, data structures, databases and files, hardware components and specifications, networking methodology, as well as systems. The main emphasis of the program is to highlight the importance of sound problem-solving methodology, supported by hands on instruction in the most popular and the most utilized computing software and hardware. The academic training combines technical computer skills with communication skills (written and oral) and business skills. A commitment to professionalism is an essential characteristic of the program. CS is accredited by the Canadian Information Processing Society (CIPS).

Co-operative Education

Co-operative Education is the integration of theory and practical experience. Students have specific periods of paid employment (Work Terms) alternating with specific periods of study (Academic Semesters). Students with a minimum cumulative GPA of 2.33 will be eligible to apply for participate to a maximum of three Co-op work terms. Students are expected to complete multiple work terms in more than one season of the year.

The number of Co-op students may be limited. For additional information, brochures and work term eligibility criteria, contact the Career Education Department at tru.ca/careereducation.

Sample Co-op Time Pattern

Term	Sep-Dec	Jan-Apr	May-Aug
Year 1	Academic Semester	Academic Semester	Co-op Work Term
Year 2	Academic Semester	Co-op Work Term	Co-op Work Term
Year 3	Academic Semester	Graduation	

CS is offered both as a Co-op program and as an optional regular program. Consult the Program Coordinator for details.

Admission Requirements

Educational Requirements

1. Pre-calculus Math 12 or Foundations of Math 12 with a minimum grade of C+ or equivalent within the last two years.
2. English 12/English 12 First Peoples with a minimum of 73% or equivalent.

Application Process

Students apply online at Apply for Admission and should request an application package from the Admissions Office. Since there are a limited number of places available in the program, applications should be submitted early.

Up to 36 full-time non-repeating students will be given confirmed seats prior to June 15 in order of their application date, providing they have completed all admission requirements.

Part-time Students
Students who are studying part-time will be waitlisted prior to June 15 and will be admitted subsequently subject to space being available, as determined by the department.

Students Repeating Courses
Students who are repeating course will be waitlisted prior to June 15 and will be admitted subsequently subject to space being available, as determined by the computer science department.

Program Requirements

All second year computer courses require either successful completion of first year as a prerequisite, or permission of the computer science department. At least one COMP elective should be upper-level.

Year 1 – Fall Semester	
ENGL 1100	Introduction to University Writing
MATH 1700 (or MATH 1650)	Discrete Mathematics 1 **or** Mathematics for Computing Science
COMP 1130	Computer Programming 1
General elective	
General elective	
Year 1 – Winter Semester	
CMNS 1290	Introduction to Professional Writing
MATH 1700 or MATH 1650	Discrete Mathematics 1 **or** Mathematics for Computing Science
COMP 1230	Computer Programming 2
General elective	
Computing elective	
Year 2 – Fall Semester	
COMP 2230	Data Structure, Algorithm Analysis and program Design
COMP2130	Introduction to Computer Systems
COMP 2160	Mobile Application Development 1
COMP 2680	Web Site Design and Development
General Elective	
Year 2 - Winter Semester	
COMP 2920	Software Architecture and Design
COMP 3270	Computer Networks
COMP 3610	Database Systems
Computing elective	
Computing elective	

Second Year CS Diploma, Semester 4

Choose 2 computing science electives approved by the Program Coordinator. See Streams below.

Second Year CS Diploma, Semester 4 - Database Stream

Choose 2 electives approved by the Program Coordinator including one or more of COMP 4610, 4620, DBA.

Second Year CS Diploma, Semester 4 - Game Development Stream

Choose 2 electives approved by the Program Coordinator including COMP 2810. COMP 1810 must be completed in semester 3.

Second Year CS Diploma, Semester 4 - Mobile Applications Stream

Choose 2 electives approved by the Program Coordinator including Mobile Applications 2. Mobile Applications 1 must be completed in semester 3.

Second Year CS Diploma, Semester 4 - Networks Stream

Choose 2 electives approved by the Program Coordinator including COMP 3260 or 4250. COMP 2130 and 3270 must be taken in semesters 2 and 3.

Second Year CS Diploma, Semester 4 - Web Development Stream

Choose 2 electives approved by the Program Coordinator including COMP 4620. COMP 2680 must be taken in semester 2.

Program Promotion

To qualify as a prerequisite within the program, a mark of C or better must be achieved.

Graduation Requirements: 60 successfully completed program credits as set out above in program requirements. A cumulative GPA of at least 2.0 must be obtained.

Program Contact

Email csdept@tru.ca |Phone 250-377-6022

Engineering Transfer Program

The TRU Engineering Transfer program offers a complete first year of engineering studies that enables students to transfer into second year at the University of British Columbia or the University of Victoria, in any of the engineering disciplines offered by these institutions. Transfer into second year at other institutions may also be possible.

In collaboration with the University of Victoria TRU also offers a second year of engineering studies in Electrical and Computer Engineering. After completing their second year at TRU, students transfer to the University of Victoria to complete the third- and fourth-year of their engineering degrees.

University of British Columbia

The Faculty of Applied Science at UBC offers programs leading to a Bachelor of Applied Science in the following disciplines: chemical, civil, electrical, computer, geological, integrated, mechanical, metals and materials, mining and mineral process engineering, and engineering physics. A Co-operative Education option is available to interested students. Admission in Co-op is competitive and based on grades.

University of Victoria

The Faculty of Engineering at the University of Victoria offers programs leading to a Bachelor of Engineering (BEng) in the following disciplines: biomedical, civil, computer, electrical, mechanical, software and offers numerous options and specialties within each discipline. Co-op is a mandatory requirement for all engineering students.

Admission to TRU Engineering Transfer

Students may gain admission to the Engineering Transfer program in the following ways:

- Following graduation from high school (or in their final year of high school).
- Following a year or more of university-level studies in science, or other related disciplines.
- Following partial completion of first-year engineering at TRU or another recognized university.

Admission into first year

Students apply online.

There are 60 seats available in the TRU first-year engineering transfer program and admission is competitive based on academic performance. Meeting minimum entrance requirements does not guarantee admission.

High school admission requirements:
Admission to the Engineering Transfer program following high school graduation will normally require:

1. Pre-calculus 12 with B (73 %) minimum or equivalent
2. Physics 12 with B (73 %) minimum or equivalent
3. Chemistry 11 with B (73 %) minimum or equivalent (Chemistry 12 is highly recommended)
4. English 12/English 12 First Peoples with a minimum of 73% (combined high school and government exam) or equivalent.

Students lacking Chemistry 12 may be admitted but will be unable to complete the first year syllabus in two semesters. See the Program Courses page for details.

Although not mandatory, the following courses are very beneficial for high school students considering engineering studies at TRU or elsewhere: Calculus 12, Drafting 12, a computing or information technology course involving computer programming and problem solving using high-level languages such as C/C++, Visual Basic, or Java.

Conditional high school admission requirements
Students currently completing their grade 12 will be considered for admission using the following criteria:

1. Pre-calculus 11 with A-(80%) or 12 (or equivalent) with B (73%) or better
2. Physics 11 with A-(80%) or 12 (or equivalent) with B (73%) or better
3. Chemistry 11 with A-(80%) or 12 (or equivalent) with B (73%) or better
4. English 11 with A-(80%) or 12 (or equivalent) with B (73%) (combined high school and government exam) or better

Note: Grade 12 results will be used when a grade is presented on the transcript.

Admission after a year of post-secondary studies in science or related studies
Successful admission to the Engineering Transfer program following a year of post-secondary studies in science or other relevant disciplines will normally require:

1. An overall GPA of 3.00 (B) or better in previous university studies.
2. Grades of B or better in 1000 level (or equivalent) Mathematic courses.
3. Grades of B or better in 1000 level (or equivalent) Physics courses.
4. Grades of C+ or better in 1000 level (or equivalent) English courses.

Students with sufficiently high grades in any of the following TRU courses (or equivalent) may be exempted from the equivalent engineering course requirements.

- MATH 1140, 1240
- PHYS 1150, 1250
- COMP 1130
- Complementary Studies Electives (see program courses page)

Admission after a partial completion of first-year engineering
Students who have completed part of a first-year engineering program at a recognized Canadian university will be considered for admission to the TRU engineering transfer program on a case by case basis. Interested individuals should contact the TRU engineering transfer program coordinator for more details.

Orientation and pre-registration
Successful applicants granted conditional admission to the program are required to attend an orientation session normally held in late May or early June. During the orientation, students meet with the engineering coordinator to select their courses and obtain their fall and winter timetables. Following orientation and payment of fees, engineering transfer students will be able to register in their selected courses.

If unable to attend an orientation session, students are expected to contact the TRU engineering coordinator to arrange for an orientation via telephone and/or email.

Continuation requirements for second year
First-year engineering students who would like to continue into second-year of the program must achieve a minimum GPA of 2.50 with a minimum grade of C- or better in each first year course.
Students must express interest to continue to the TRU engineering coordinator by February 28 of their first year.

Admission into second year - New Applicants

The minimum admission requirements are:

1. The completion of the first year of the Engineering Transfer program at TRU (38 credits) or another recognized engineering transfer program, with a cumulative grade point average of 2.50.
2. A grade of C- or better in all courses that are part of the first-year transfer program.

Note: Students having completed a first year of engineering studies in an accredited program at a Canadian university will be considered for admission on a case by case basis.

Orientation and Registration
Successful applicants granted conditional admissions to the program are required to attend an orientation session normally held in late May or early June. During the orientation, students meet the engineering coordinator to select their courses and obtain their fall and winter timetables. Following orientation and payment of fees, engineering transfer students will be able to register in their selected courses. Students unable to attend an orientation session are expected to contact the TRU engineering coordinator to arrange for an orientation via telephone and/or email.

First-Year Engineering Course Requirements

Year 1 – Fall Semester	
APSC 1200	Introduction to Engineering
COMP 1520	Principles of Software Development
DRAF 1520	Engineering Graphics
ENGL 1100**	Introduction to University Writing
EPHY 1150	Physics for Engineers 1

MATH 1130	Calculus 1 for Engineering
MATH 1300	Linear Algebra for Engineers
Year 1 – Winter Semester	
EPHY 1250	Physics for Engineers 2
EPHY 1700	Engineering Mechanics 1
EPHY 1990	Introduction to Engineering Measurements
CHEM 1520***	Principles of Chemistry
MATH 1230	Calculus 2 for Engineering
Complementary Studies (3 credits)*	
*Students planning to transfer to UVIC in all disciplines must take CMNS 1290 for their complementary studies. *UBC approved complementary studies courses include ARCH 1110, 1190, and 1210; ECON 1900, and 1950; ENGL 1110; GEOG 2110 and 2220; HIST 1030, 1120, 1220, and 1260; PHIL 1110 and 1210; POLI 1110 and 1210; PSYC 1110 and 1210; SOCI 1110.	
**Students who do not have Chemistry 12 (or equivalent) are required to take CHEM 1500 instead of ENGL 1100 during the fall semester, and take ENGL 1100 instead of a complementary studies elective during the winter semester. These students will not complete all requirements in year 1 but may still be eligible to transfer	
*** Students planning to transfer in Software Engineering at UVic should take COMP 1230 in their winter semester instead CHEM 1520	

Second-Year Engineering Course Requirements

Year 2 – Fall Semester	
COMP 1230	Computer Programming 2
EPHY 2200	Electrical Properties of Materials
EPHY 2950	Engineering Fundamentals
MATH 2110	Calculus 3
PHYS 2150	Circuit Analysis
One Complementary studies elective (Electrical Engineering stream) or one Natural Science elective (Computer Engineering stream)	
Year 2 – Winter Semester	
COMP 2130	Introduction to Computer Systems
EPHY 2990	Introduction to ECE Design
EPHY 3600	Continuous-Time Signals and Systems
MATH 2240	Differential Equations
PHYS 2250	Intermediate Electromagnetism
PHYS 3100	Digital Electronics

Program Contact

Program coordinator: fahmed@tru.ca | Phone 250-371-5696

Respiratory Therapy Program

A three-year diploma program with an option to complete a dual diploma/ four-year bachelor's degree in Health Science. Graduates of the three- or four-year program receive a Respiratory Therapy Diploma and are eligible to undertake the National Certification Examination for professional qualification as a Registered Respiratory Therapist.

Learning Options

Diploma or Degree

Completion options in the Respiratory Therapy program are:

- Diploma (three-year program)
- Dual credential - Diploma/Degree stream (RT/BHSc) (four-year program)
- Diploma for students with a BSc degree (**aka Fast-track)** (two-year program)
- Joint RT Diploma and Master in Education (separate programs, but can be taken at the same time to graduate with both credentials)

More information regarding the various options in the Respiratory Therapy program can be found at: tru.ca/science/diplomas-certificates/rt.

First-year is the same for both the RT diploma and the dual credential program. Students declare interest to enter into the dual diploma/degree stream or to remain in the RT diploma stream during the winter semester of Year 1 of the program.

Full-time Study: Students normally complete the diploma or the dual credential on a full-time basis.

On-campus: Diploma stream: Year 1 and Year 2 courses are offered on the Kamloops Campus.
Diploma/Degree stream: Year 1, 2 and 3 courses are offered on the Kamloops Campus.

Distance Education: Students accepted into the Fast-track option are required to complete 4 distance courses through TRU-OL prior to entry into program. Students enrolled in the dual diploma/degree stream, may take their non-RESP elective courses either on-campus or via distance.

The required upper- level courses for the BHSc degree are taken as distance courses. Information on the BHSc courses can be found at tru.ca/science/diplomas-certificates/rt..

Program Overview

Respiratory Therapy (RT) is an allied health discipline devoted to the scientific application of technology in order to assist in the diagnosis, treatment, management and care of patients with cardiopulmonary disorders. Respiratory Therapists are important members of modern hospital medical teams.

TRU is the only educational institution in British Columbia to offer a program in Respiratory Therapy (RT). The program is accredited by the Council on Accreditation for Respiratory Therapy Education (CoARTE).

Following completion of studies on the TRU campus, students complete an 11 month clinical internship at accredited hospitals affiliated with the TRU RT program.

The clinical year begins in early June, with students spending time at various hospitals gaining exposure to all aspects of the duties of a Respiratory Therapist. Clinical year students rotate between hospitals in the Interior, the Lower Mainland and Vancouver Island. Applicants must be prepared to relocate as required. Specific rotations cannot be guaranteed.

The Fast-track option is also unique to the Respiratory Therapy program at TRU. This option gives recognition to a student's BSc, and allows students to complete the RT diploma within 2 years (1 academic year and 1 clinical year).

Another unique option to the TRU-RT program is the possibility of obtaining a joint RT Diploma and Master of Education degree at the same time. This option is open to students who qualify for acceptance

into the Fast-track RT stream. Students selecting this option divide their RT courses and MEd courses over 2 -3 years, followed by a clinical year. There is limited space for this option. Students must apply for both the RT program and the MEd program individually.

Graduates of the diploma or dual credential program are eligible to sit the National Certification Examination which grants the professional qualification of RRT (Registered Respiratory Therapist).

Program Costs

In addition to tuition and fees students should budget for the following expenses (costs are subject to change):

- CSRT costs -students are encouraged to join the CSRT early in the first year. A three-year membership is $100.
- Certification exam - clinical year students are required to pay a $900 fee during the last semester for their national certification exam.
- Relocation - students must be prepared to relocate to the Lower Mainland, Victoria, or Kelowna for all or part of the clinical year.
- MEd program costs are separate from RT program costs.

Admission Requirements

Acceptance into the RT program is competitive and selective. There are a limited number of seats in the Respiratory Therapy program streams.

Applications must be complete and submitted by the deadline.

Seats for high school applicants are limited, and with the high number of applicants with advanced education, we recommend 1-2 years post-secondary education in a Bachelor of Science program.

International students may apply to the RT program, but they must first apply to International Admissions. (Limited seats)

Minimum Academic Criteria for Admission

1. BC Grade 12 with a minimum C+ average or equivalent.
2. English 12/English 12 First Peoples with a minimum 73% or equivalent.
3. Foundations of Math 12 or Pre-calculus 12 with a minimum C+ or equivalent.
4. Biology 12 with a minimum C+ or equivalent.
5. Chemistry 12 minimum C+ or equivalent.
6. Physics 11 with a minimum C+ or equivalent.

Educational requirements should preferably have been obtained within five years of application. For students entering first-year, transfer credit for previous post-secondary education will be given when official course transcripts have been reviewed. Course outlines may be required.

General Requirements

1. Official transcripts from all secondary and post-secondary institutions attended.
2. Completion of program information session (proof of completion required)
3. Completion of "C" level CPR with AED upon acceptance
4. Complete immunization record upon acceptance
5. Criminal record check upon acceptance
6. Completion of medical terminology course upon acceptance

Contact resp@tru.ca for more information about program information session details. Out-of-province students or students unable to attend a program information session should contact the program assistant as soon as possible to make alternative arrangements.

Documents 1-2 should be submitted with the application or ASAP. *Only completed applications with official transcripts will be processed.*
When students have been conditionally accepted into the program, they will be sent the Immunization Record Form and the CRC Consent Form. These completed forms should be submitted as soon as possible, and must be submitted within one month of entry into the program. Proof of "C" level CPR with AED completion must be submitted before the start of classes in September.

Admission for students with a Bachelor of Science Degree

Students who have an undergraduate science degree may apply for advanced placement into the second year of the program as "fast-track" students. This fast-track option has limited seats and acceptance is very competitive. Students in the Fast-track program are required to successfully complete 4 distance courses prior to entry into the second year of the fall semester. For more information, see: tru.ca/science/programs/rt/requirements/fast_track.

Students with an undergraduate science degree who are not admitted into the Fast-track option will be offered a seat in the first year of the program providing they meet the minimum educational requirements. Course transcripts will be reviewed for advanced credits.

Application Process

Students apply online at Apply for Admission. Applicants applying for the Fast-track program stream should indicate in the comments section of the online application "Respiratory Therapy **Fast-track"** and indicate whether or not they will accept a seat in first year if not accepted in the Fast-track stream.

Documentation of the items listed under General Requirements and official transcripts must be sent to the Admissions office.

Application Dates and Deadlines for Sept intake:

- **Oct 1 – Feb 1** for **ALL** applicants*

Once students have received a conditional acceptance, they must pay a $500 tuition deposit within 21 days of acceptance.
Note: Acceptance is conditional based on receipt of final grades.

Immunization forms and Criminal Record Check (CRC) consent forms will be sent to students once they've been accepted into the program.

Selection Criteria

Admission into the Respiratory Therapy Program is determined by a selective admission process based on academic qualifications. Applicants who meet the minimal education requirements for admission are ranked and selected for admission according to the following:

- Applicants with an undergraduate degree (preferably BSc) and a CGPA ≥ 2.33.

- Highest GPA in high school and post-secondary education
- The number of years of post-secondary education
- The number of successfully (C+ or greater) completed post-secondary science courses

Criminal Record Check and Immunization Record

A Criminal Record Check Consent Form is sent to applicants who are accepted into the program. RT students are required to undergo a criminal record check as part of the Criminal Records Review Act for individuals working with children and vulnerable adults. TRU will initiate an online criminal record check request through the Ministry of Justice on the students' behalf. Students will be charged a fee for the criminal records check.

Our clinical affiliates require a criminal record check prior to accepting students for clinical placement. Clinical agencies reserve the right to refuse to accept students with a criminal record. Not completing the clinical placements prevents a student from successfully completing the program. The Canadian Society of Respiratory Therapy and the provincial colleges of Respiratory Therapy may deny student membership and/or RT registration to candidates with criminal convictions.

Our clinical affiliates require proof of up-to-date immunization prior to accepting students for clinical placement. Clinical agencies reserve the right to refuse to accept students who do not have this proof and this could prevent students from completing the clinical placements, and thus not completing the program.

Program Requirements

Year 1 – Semester 1 and 2	
BIOL 1592/1692	Human Biology - Anatomy and Physiology (L)
CMNS 1810	Professional and Academic Composition
CMNS 2290	Technical Communication
STAT 1200	Introduction to Statistics
PHYS 1580	Physics for Respiratory Therapists (L)
RESP 1650	Introduction to Mechanical Ventilation
RESP 1580	Principles and Application of Respiratory Therapy Equipment 1
RESP 1680	Principles and Application of Respiratory Therapy Equipment 2
RESP 1690	Cardiopulmonary Anatomy and Physiology
RESP 2510	Pharmacology
RESP 2720	Professional Issues in Health Care
Year 2/3 – Fall Semester	
RESP 2500*	General Pathophysiology
RESP 2550	Mechanical Ventilation (L)
RESP 2570	Blood Gas Analysis (L)
RESP 2590*	Patient Assessment (L)
RESP 2680	Pulmonary Function (L)
RESP 2540	Client Centred Education and Community Health
Note: courses with * are taken during second year, fall semester of the dual credential program. Those without an *are taken in the fall semester of third year of the dual credential. Diploma students take the full complement of RESP courses in the second year of the diploma.	
Note: Successful completion of these courses is required for promotion to next semester.	
Year 2/3 – Winter Semester	
RESP 2600*	Respiratory Pathophysiology
RESP 2620*	Anesthesia(L)
RESP 2630	Perinatal and Pediatric Respiratory Care (L)
RESP 2650	Application of Mechanical Ventilation (L)
RESP 2710	Application of Respiratory Therapy Practice (L)
RESP 2660	Chronic Disease Management
Note: courses with * are taken during second year, winter semester of the dual credential program. Those without an * are taken in the winter semester of third year of the dual credential. Diploma students would take the full complement of RESP courses in second year of the diploma.	
Clinical Year (Third-year of the diploma; Fourth-year of the dual credential)	
RTCL 3040	Neonatal and Pediatrics (Clinical)
RTCL 3110	Level 1 Clinical (Rotation)
RTCL 3120	Level 2 Clinical (Rotation)
RTCT 3040	Clinical Theory: Neonatal and Pediatrics
RTCT 3110	Respiratory Therapy Clinical Theory (Level 1)
RTCT 3120	Respiratory Therapy Clinical Theory (Level 2)

Completion Requirement

Diploma completion is expected within three consecutive years following entry. At the discretion of the Academic Coordinator, this may be extended to four consecutive years. Full-time dual credential students should be able to complete their degree within four years.

Contact David Sheets at dsheets@tru.ca for more information regarding dual credential completion.

Program Promotion

The Respiratory Therapy Program is academically rigorous with a heavier than average course load in all semesters. In order to be successful in the program, students must be willing to dedicate a significant amount of time to their studies

Students must successfully complete all courses in order to continue on to the next semester with an overall grade of C (60%) in each RESP course, PHYS 1580 and BIOL 1592/1692, and a minimum mark of 50% on the course/lab final exam is required. A grade below these requirements is considered a failure.

Students may be allowed to continue in the program if they are granted Academic Probation. Academic Probation applies to students who attain a grade of C- in any one RESP or science course during a semester, but have a passing grade in all other courses in that semester. If students fails to meet the pass mark in two or more courses during one semester they will fail and be withdrawn from the program.

If students fail a course while on academic probation, they will not be granted probation and will be removed from the program. Academic probation will not be granted two semesters in a row.

Graduates will receive a diploma in Respiratory Therapy. During the time between graduation and writing the certification exam, graduates may be employed as graduate RT's.

Failures and Repeats

Failing or withdrawing students should recognize that there is no guarantee of the opportunity to repeat courses.

First time, full-time students are accepted first, and if space permits, repeating students may be re-accepted.

A student who fails a course(s) will be required to repeat the course(s) and the required labs associated with the course(s) within one calendar year. A failed course can only be repeated in the semester in which it is offered in the following year. Students must re-register for the course(s) and pay the appropriate fees for any repeated courses.

A student who has previously failed a health-related program and who subsequently applies for admission to the same program or to another health-related program will be regarded as a repeating student, unless they can show cause for being treated as a new student.

Students re-entering the program may be required to retake courses depending upon the currency of the knowledge and will have to retake all courses that have a lab component associated with them. All students re-entering the program are reminded that they are subject to program completion-time requirements.

A student who receives a failing grade in a course or fails to meet objectives related to professional responsibility, professional accountability or patient safety may be refused re-admission to the program (or another health-related program) at the recommendation of the Program Chairperson and the approval of the Divisional Dean.

Clinical Year (third-year of the diploma and fourth-year of the dual credential)

The clinical year is designed to allow students to gain practical experience in all aspects of Respiratory Therapy. The clinical year curriculum consists of the three clinical theory courses and three clinical practice courses. Students must pass all six courses in order to successfully complete the program.

- Level 1 - June to November - students are expected to meet certain predetermined objectives in all rotations
- Level 2 - December to April - will be a further mastery of these same objectives.

The year can be divided into three main areas of practice:

1. Diagnostics, which will include blood gas analysis, pulmonary function, and bronchoscopy.
2. Therapy, which will include medical/surgical rotations, and pediatrics and nursery.
3. Critical Care, which will include adult, pediatric and neonatal intensive care, operating room and anesthesia, and coronary care.

Students must pass the theory course with an overall grade of 60% or better and a minimum mark of 50% on the final exam. Students may be allowed to continue on a probationary basis if they have been granted academic probation. Students must also successfully complete all of their clinical objectives to pass the clinical courses (RTCLs)

Students will work the equivalent of 150 hours each month, and may be assigned shift work. Clinical training involves rotation between the accredited hospitals, and these rotations may be either:

1. Interior - Vancouver or Vancouver – Interior
2. Vancouver – Vancouver
3. Vancouver – Victoria or Victoria – Vancouver

Program Contact

Email resp@tru.ca | Phone 250-828-5403
Web tru.ca/science/diplomas-certificates/rt

Pre-Professional Health Sciences

Pre-Chiropractic Studies: Suggested Program

Overview

The Canadian Memorial Chiropractic College is located in Toronto, Ontario and offers a four-year program leading to the professional credential of DC (Doctor of Chiropractic). Candidates seeking admission must have completed at least three full years (90 credits) of university-level courses and have a cumulative GPA of 3.00 to 3.30. Although not required, it is recommended that applicants have completed 6 credits of courses with labs in each of organic chemistry and biology, 3 credits in introductory psychology and 9 units in humanities or social sciences.

Admission evaluation is based on a scoring system which is derived from the following: academic assessment, interview, essay and autobiographical submission. Pre-Chiropractic students are advised to visit the Canadian Memorial Chiropractic College website (cmcc.ca) for further information and to verify admission requirements.

Suggested Courses

First Year

BIOL 1110, BIOL 1210, CHEM 1500,
CHEM 1510 or CHEM 1520
ENGL 1100
One of: ENGL 1110 / ENGL 1120 / ENGL 1140 / ENGL 1210
MATH 1140 and MATH 1240 or MATH 1150 and MATH 1250
PHYS 1100 and PHYS 1200 or PHYS 1150 and PHYS 1250

Second Year

CHEM 2120	
COMP	
PSYC 1110	
Electives	18 credits (see recommended electives)

Third Year

Electives	30 credits (see recommended electives)

Recommended Electives

Second Year	Third Year
BIOL 2130/2340	BIOL 3130
BIOL 2160	BIOL 3540
CHEM 2220	BIOL 3550
3 credits of Humanities or Social Sciences	BIOL 3000

Pre-Dentistry Studies: Suggested Program

Overview

Students hoping to gain admission to the Doctor of Dental Medicine (DMD) program at UBC must have completed at least three full years of post-secondary courses, all of which may be taken at TRU. In addition, they must achieve a minimum overall grade point average of 70% (2.8) for ALL college/university work (including failed courses).

Because admission to Dentistry is extremely competitive, it is recommended that students choose courses that will lead to a bachelor's degree in Science as an alternative career goal.

Pre-Dental students are advised to consult the UBC Faculty of Dentistry website (dentistry.ubc.ca). Further information on pre-dental study, including advice on the appropriate choice of electives and transfer to universities other than UBC, may be obtained from the Chairperson.

Suggested Courses

First Year

BIOL 1110, BIOL 1210, CHEM 1500
CHEM 1510 or CHEM 1520
ENGL 1100
One of: ENGL 1110 / ENGL 1120 / ENGL 1140 / ENGL 1210
MATH 1140 and MATH 1240 or MATH 1150 and MATH 1250
PHYS 1100* and PHYS 1200* or PHYS 1150 and PHYS 1250
*Note: PHYS 1100/1200 is not accepted at all institutions. Students are strongly advised to check with the institution to which they plan to apply.

Second Year	Third Year
BIOL 2130	BIOL 3130
BIOL 2340	BIOL 3230
CHEM 2120	Electives (24 credits)
CHEM 2220	
COMP (3 credits)	
Electives (12 credits)	
*Note: Registration in any upper-level science course must be approved by the BSc Advisor.	

Pre-Medicine Studies: Suggested Program

Overview

Pre-Medical students are advised to consult the UBC Faculty of Medicine website at med.ubc.ca and the online transfer guide at bctransferguide.ca. Further information on pre-medical study, including advice on the appropriate choice of electives and transfer to universities other than UBC, may be obtained from the Chairperson. Courses in behavioural sciences, genetics and physics, biometrics and statistics are strongly recommended for all applicants.

No particular degree program is considered ideal as preparation for the study and practice of medicine. Candidates for admission must have completed at least three full years of university-level courses, all of which may be taken at TRU. The minimum academic standing required for admission is 70% based on all university-level courses attempted.

Suggested Courses

First Year

BIOL 1110
BIOL 1210
CHEM 1500
CHEM 1510 or CHEM 1520
ENGL 1100
One of: ENGL 1110 / ENGL 1120 / ENGL 1140 / ENGL 1210
MATH 1140 and MATH 1240 or MATH 1150 and MATH 1250
PHYS 1100* and PHYS 1200* or PHYS 1150 and PHYS 1250
*Note: PHYS 1100/1200 is not accepted at all institutions. Students are strongly advised to check with the institution to which they plan to apply.

Second Year	Third Year
BIOL 2130	BIOL 3130
BIOL 2340	BIOL 3230*
CHEM 2120	Electives (24 credits)
CHEM 2220	
COMP (3 credits)	
Electives (12 credits) Recommended: BIOL 2160 and CHEM 2150, 2250	
*Note: Registration in any upper-level science course must be approved by the BSc Advisor.	

Pre-Naturopathic Medicine: Suggested Program

Overview

The Canadian College of Naturopathic Medicine is located in the North York region of Toronto Ontario and offers a four-year, full-time professional program in naturopathic medicine. Graduates receive a Doctor of Naturopathic Medicine (ND) diploma. Applicants must have completed a minimum of three years (90 credits) toward a baccalaureate degree. A cumulative grade point average of 75% is recommended to be competitive.

Candidates are evaluated on their academic history as well as their motivation for becoming a naturopathic doctor, leadership skills, problem solving and critical-thinking skills, and specific personal qualities and characteristics.

Students should consult the website of the Canadian College of Naturopathic Medicine at ccnm.edu to verify admission requirements.

Suggested Courses

First Year

BIOL 1110, BIOL 1210, CHEM 1500
CHEM 1510 or CHEM 1520
ENGL 1100
One of: ENGL 1110 / ENGL 1120 / ENGL 1140 / ENGL 1210
MATH 1140 and MATH 1240 or MATH 1150 and MATH 1250
PHYS 1100* and PHYS 1200* or PHYS 1150 and PHYS 1250
*Note: PHYS 1100/1200 is not accepted at all institutions. Students are strongly advised to check with the institution to which they plan to apply.

Second Year	Third Year
BIOL 2130	BIOL 3130
CHEM 2120	Electives (27 credits)
COMP (3 credits)	
Electives (12 credits)	
Note: Registration in any upper-level science course must be approved by the BSc Advisor.	

Recommended Electives

Second Year	Third Year
BIOL 1590, 1690, 2340, 2160	BIOL 3000
CHEM 2220	BIOL 3540
PSYC 1110, 1210	BIOL 3550

Note: It is recommended that applicants complete courses in some or all of the following areas to prepare for the university curriculum: anatomy, environmental science, genetics, human physiology, microbiology, physics, sociology, statistics, humanities and English composition.

Pre-Optometry Studies: Suggested Program

Overview

The School of Optometry at the University of Waterloo offers a 4-year professional program leading to the Doctor of Optometry (OD) degree. Applications to the program are accepted from candidates who have met the following criteria:

- A minimum overall university science average of 75%
- The science average is the overall average of all courses taken while registered in a faculty of science.

Canadian citizen or permanent resident of Canada status held for at least 12 months prior to the registration day of the fall term.
Pre-Optometry students are strongly advised to consult the University of Waterloo School of Optometry website at optometry.uwaterloo.ca to verify admission requirements.

Suggested Courses

First Year

BIOL 1110, BIOL 1210, CHEM 1500
CHEM 1510 or CHEM 1520
ENGL 1100
One of: ENGL 1110 / ENGL 1120 / ENGL 1140 / ENGL 1210
MATH 1140 and MATH 1240 or MATH 1150 and MATH 1250
PHYS 1100* and PHYS 1200* or PHYS 1150 and PHYS 1250
*Note: PHYS 1100/1200 is not accepted at all institutions. Students are strongly advised to check with the institution to which they plan to apply.

Second Year	Third Year
BIOL 2130	BIOL 3130
BIOL 2160	BIOL 3540
BIOL 2340	PHIL 2010 or PHIL 4330 or PHIL 4350
COMP (3 credits)	Electives (18 credits) Recommended CHEM 2220
CMNS 2290 or CMNS 2300	
PSYC 1110	
STAT 2000	
Electives (6 credits)	
Note: Registration in any upper-level science course must be approved by the BSc Advisor	

Pre-Pharmaceutical Sciences Studies: Suggested Program

Overview

To be considered for admission into the four year Doctor of Pharmacy degree offered at UBC, two full years of university coursework (60 credits) is required. Admission is selective and competitive. Students should prepare to achieve well above the minimum to qualify. Transferability of TRU courses to UBC is available online at bctransferguide.ca.

Students are encouraged to visit UBC Pharmacy BSc program admission requirements calendar.ubc.ca/vancouver to verify admission requirements.

Pre-Rehabilitation Sciences Studies: Suggested Program

Overview

The School of Rehabilitation Sciences within the Faculty of Medicine at UBC no longer offers the degrees of Bachelor of Science in Occupational Therapy, BSc (O.T.) and Bachelor of Science in Physical Therapy, BSc (P.T.). Instead, they are offering Master of Occupational Therapy (MOT) and Master of Physical Therapy (MPT) degrees.

Students wishing to qualify for Rehabilitation Sciences at UBC are strongly advised to visit the UBC website to verify admission requirements. Students must have a minimum academic standing of B+ calculated on their upper-level courses. Advice may also be obtained from the Chairperson.

Suggested Courses

Students should contact UBC to verify admission requirements for the MOT and MPT.

Recommended for entry to the MOT:

BIOL 1110
BIOL 1210
One of: ENGL 1110 / ENGL 1120 / ENGL 1140 / ENGL 1210 (ENGL 1100 recommended)
STAT 2000
PSYC 1110
PSYC 1210
SOCI 1110
SOCI 1210

Recommended for entry to the MPT:

BIOL 1110, BIOL 1210, BIOL 1590
BIOL 1592, 1594, 1692, 1694
CHEM 1500
CHEM 1510 or CHEM 1520
One of: ENGL 1110 / ENGL 1120 / ENGL 1140 / ENGL 1210 (ENGL 1100 recommended)
STAT 2000, PYSC 1110, PYSC 1210
PHYS 1100 or PHYS 1150
BIOL 3540 , BIOL 3550

Pre-Veterinary Medicine: Suggested Program

The Western College of Veterinary Medicine (WCVM) at the University of Saskatchewan (Saskatoon) was established to serve the four western provinces. Admission to WCVM requires at least two full years of post-secondary science courses.

Because of the intense competition for entry to the veterinary program, potential students are advised to undertake a program of post-secondary study which will lead to an alternative career goal, should they fail to gain admission to veterinary medicine.

Applicants must have a minimum cumulative average of 75% in order to be considered for admission into the veterinary program. All grades are converted to a common scale for comparative purposes and this converted average will be used.

The Western College of Veterinary Medicine has introduced an Educational Equity Program for Aboriginal students. In this program, a defined number of seats have been allocated for self-identified applicants of Aboriginal descent. For the purpose of admission, the documents that are accepted as proof of Indigenous ancestry are listed in The University of Saskatchewan calendar. Visit usask.ca/wcvm for details.

Students whose alternative career goal is a bachelor's degree in science may complete all of their courses at TRU and then apply for admission to WCVM.

Suggested Program

Visit the Western College of Veterinary Medicine at usask.ca/wcvm to verify admission requirements.

First Year

BIOL 1110, BIOL 1210, CHEM 1500
CHEM 1510 or CHEM 1520
Two of: ENGL 1110 / ENGL 1120 / ENGL 1140 / ENGL 1210
MATH 1140 and MATH 1240 or MATH 1150 and MATH 1250
PHYS 1150, PHYS 1250

Second Year	Third Year
BIOL 2130	BIOL 3130
BIOL 2160	BIOL 3230*
BIOL 2340	BIOL 3350
CHEM 2120	Electives (21 credits)
CHEM 2220	
COMP (3 credits)	
Electives (6 credits)	***Note: Registration in any upper-level science course must be approved by the BSc Advisor**.

Faculty of Student Development

Co-operative Education

The TRU Career and Experiential Learning department is dedicated to supporting current students and alumni through our Co-operative Education and Career Service programs. The Co-operative Education program allows students to integrate academic studies with 3 elective credit Co-op courses (work terms) that offer paid periods of relevant experience in industry, business, and government. Students alternate between periods of on-campus, full-time study, and work terms, which are full-time, paid employment. Co-op during the summer is often the most common time to complete a work term, however various time patters are possible and encouraged. Students are expected to complete multiple work terms in more than on season of the year. Consult the Co-op Department for details.

Co-operative Education Coordinators serve as the link between students, employers and the academic programs students are enrolled in. Coordinators work with students on all aspects of individual career planning. Coordinators seek out appropriate employment opportunities and ensure that co-op opportunities are related as closely as possible to a student's area of study. In addition, Coordinators arrange interviews and finalize co-op placements. Work term positions and the co-op student's progress are assessed through on-site visits.

Program Options

TRU offers Co-op options in the following programs:

Bachelor of Arts
Bachelor of Interdisciplinary Studies
Bachelor of Business Administration
Bachelor of Natural Resource Science
Bachelor of Science
Bachelor of Computing Science
Computer Science Diploma
Bachelor of Science
Bachelor of Tourism Management
Engineering Transfer Program

Admission Requirements

Admission and application requirements vary between programs. Please refer to the specific program section of the calendar for detailed information. Co-op work term courses are worth 3 elective credits' depending on the program. Allowable graduating credit varies program to program.

Bachelor of Arts Co-op
Students must have a minimum cumulative GPA of 2.67, have completed 48 credits before beginning their first work term to enter the BA Co-op option and must maintain a cumulative GPA of 2.67 throughout the program.

Bachelor of Interdisciplinary Studies Co-op
Students must have a cumulative GPA of 2.67 to enter the BIS Co-op option and must maintain a cumulative GPA of 2.67 throughout the program. Students must have completed 60 credits prior to the first work term.

Bachelor of Business Administration Co-op
Students must have a cumulative GPA of 2.67 to enter the BBA Co-op option and must maintain a cumulative GPA of 2.67 throughout the program. Students must have completed 48 credits prior to the first work term. Applications are accepted from second year BBA students.

Bachelor of Natural Resource Science Co-op
Students must have a cumulative GPA of 2.33 to enter the NRS Co-op option and must maintain a cumulative GPA of 2.33 throughout the program. Students must have completed all registered first-year courses. Applications are accepted from first year BNRS students, however, high school transcripts must be submitted from applicants.

Bachelor of Tourism Management Co-op
Students must have a cumulative GPA of 2.33 to enter the BTM Co-op option and must maintain a cumulative GPA of 2.33 throughout the program. Students must have completed 30 first-year credits prior to the first work term.

Bachelor of Science, Biology Major Co-op
Students must have a cumulative GPA of 2.33 to enter the BSc Biology Co-op option and must maintain a cumulative GPA of 2.33 throughout the program. Students must have completed first year and will have completed three of BIOL 2160, BIOL 2170, BIOL 2280, BIOL 2290, before the first work term.

Bachelor of Science, Chemistry/Environmental Chemistry Major Co-op
Students must have a cumulative GPA of 2.33 to enter the BSc Chemistry Co-op option and must maintain a cumulative GPA of 2.33 throughout the program. Students must have completed first year and CHEM 1500/1510 or CHEM 1500/1520, and anticipate completing CHEM 2120/2220 and CHEM 2100/2250 prior to the first work term.

Bachelor of Science, Computing Science Co-op
Students must have maintained a term and cumulative GPA of 2.33 in all BSc courses and complete COMP 2130 and 2230 prior to their first work term.

Bachelor of Science, Math Co-op
Students must have a cumulative GPA of 2.67 to enter the BSc Math Co-op option and must maintain a cumulative GPA of 2.67 throughout the program. Students must have completed a minimum of 48 credits prior to the first work term.

Bachelor of Science, Physics Major Co-op
Students must have a cumulative GPA of 2.33 to enter the BSc Physics Co-op option and must maintain a cumulative GPA of 2.33 throughout the program. Applications will be accepted from second- and third-year Physics students who have completed or anticipate completing the following courses prior to the first work term: PHYS 1100/1200 or 1150/1250, PHYS 2000, PHYS 2200, PHYS 2250, MATH 2110, MATH 2120, MATH 3170. Completion of COMP 1130 or COMP 1520 is highly recommended.

Bachelor of Computing Science Co-op
Students must have a cumulative GPA of 2.33 to enter the BCS Co-op option and must maintain a cumulative GPA of 2.33 throughout the program. Students must have completed a computing science diploma and all BCS entrance requirements or completed at least one semester of BCS.

Computing Science Diploma Co-op
Students must have a cumulative GPA of 2.33 to enter the CS Diploma Co-op option and must maintain cumulative GPA of 2.33 throughout the program. Students must have completed all required courses prior to the first work term.

Application Process

Applications may be made online or downloaded from: tru.ca/careereducation/coop.

Applications must include:

1. A letter of application (400 words maximum) which outlines:
   - Career goals, learning objectives and how a Co-op work term will further your career
   - Experience, both volunteer and paid
   - Background relevant to your program area (e.g. business, geography, geology, etc.)
   - Commitment to completing the Co-op program, if accepted
2. A current resume including the names of three references.
3. Transcripts from TRU and other post-secondary institutions. First year BNRS students must also submit a copy of their high school transcript.
4. Copies of any other supporting documentation relevant to the application (e.g. letters of reference, awards, scholarship letters, etc.).

For more information, contact the Career Education Department at 250-371-5627 or email careereducation@tru.ca.

Program Requirements

Co-op 1000 Career Development Prerequisite Course
Prior to their first work term, all Co-operative Education students participate in a mandatory 13-week, one-credit course on career development. Co-op coordinators instruct students on the fundamentals of developing and managing their careers for success in their work terms and after graduation.

Co-operative Education Work Terms
Many Co-op positions are located outside Kamloops and students are frequently placed in the Lower Mainland, throughout BC, and across Canada. The more flexible students are in terms of work term location, the greater the opportunities available to them.

Students compete for positions the Co-op program has identified or find suitable positions on their own. The Co-op program must approve positions students have found on their own before they can be considered as a co-op work term position. Work terms are paid, full-time employment. Students generally work 35 hours per week, subject to workplace requirements. The minimum length of a work term is 12 weeks. The maximum number of consecutive work terms a student can participate in before returning to full-time studies is three work terms, or 12 months.

The maximum number of non-consecutive work terms permitted in a diploma program is four. The maximum number of non-consecutive work terms permitted in a degree program is five. The fifth work term requires permission from the Department Chairperson. The number of Co-op Education elective credits recognized toward graduation requirements varies from program to program, therefore students are advised to consult their Program Advisor before undertaking work terms.

Note: The final semester of a student's program must be a full-time, on-campus academic semester, not a work term.

Regulations
Submission of a signed Co-op Application Form is a student's commitment to comply with the procedures and requirements of the Co-op program as outlined in the calendar and the Co-op Student Handbook.

1. Admission to the Co-op program is competitive. To be eligible for a Co-op program, students must be enrolled in full-time studies (minimum 9 credits) in on-campus TRU courses. Open Learning students are not eligible for the Co-op program.
2. Students alternate between periods of full-time study and full-time employment.
3. All students accepted into Co-operative Education must complete COOP 1000 prior to their first work term.
4. The Co-operation Education Coordinator(s) make every reasonable effort to find suitable program-related positions for students who have been accepted into the Co-op program. However, work term placements are not guaranteed. Students are responsible for conducting an active search for work term positions and for maintaining close contact with their Co-op Coordinator. Students are expected to check daily for new job postings, interview schedules and notices from the Co-op Office.
5. Students are expected to accept a job offer once it has been extended. Students wanting to withdraw from a Co-op competition must do so by contacting their Co-op Coordinator immediately.
6. Job offers must be accepted or rejected within 24 hours.
7. To successfully complete a work term, students must complete all course assignments. Evaluation components vary between programs but generally include: a) completion of the term of employment; b) a "satisfactory" evaluation from the employer; c) submission of a satisfactory work term report.
8. In order to maintain eligibility for future work terms, students must submit a completed Work Term Notification Form upon returning from each work term.
9. The final semester of a student's program must be a TRU full-time, on-campus academic semester, not a work term.

10. There is a one-time admission and withdrawal policy for Co-op programs. When a student withdraws from Co-op or a work term they cannot apply for re-admission to Co-op at a later date.
11. Co-op tuition will apply to all Co-op positions including: back-to-back work terms with the same employer, subsequent extensions with the same employer, students returning to the same employers, and students who find their own Co-op work term(s).
12. International students must complete a minimum of two full-time, academic, on-campus TRU semesters prior to their first work term.

Program Contact

Email careereducation@tru.ca | Phone 250-371-5627
Web tru.ca/careereducation

Student Success Courses

The Faculty of Student Development offers five one-credit elective Student Success courses (STSS) that provide students with a strong foundation for university success. These courses are offered in fall and winter semesters, in full or half-term formats.

For more information:
Email: jegoddard@tru.ca
Web: tru.ca/campus/services/support/courses

School of Trades and Technology

The TRU School of Trades and Technology offers foundation and apprenticeship training backed by the Industry Training Authority of BC. Students can also choose from career-oriented degrees, diplomas and certificates or, they may choose to upgrade their current training with a wide variety of Continuing Studies courses.

Trades and Technology training at TRU is designed to operate in a similar structure as students can expect from the employer in the workplace. Programs revolve around a rigorous schedule of start times and attendance requirements. Students who miss more than three days of training without prior approval from their instructor may be asked to withdraw from the program. tru.ca/trades

Bachelor of Technology

The Bachelor of Technology degree program focuses on transitioning technicians, tradespersons, and technologists into industry leaders. Students acquire strong communication and relationship skills, become capable leaders in a culturally diverse workforce, and understand how to safely and sustainably lead projects in environments that are changing technology and increasingly global in nature.

Learning Options

The Bachelor of Technology program is a full-time, four-year program.

Program start dates: Kamloops campus, September

Program Overview

The Bachelor of Technology degree provides individuals possessing strong technical expertise with the background skills required to help them become effective workplace managers.

Upon successful completion of the degree, graduates will be able to:

- communicate clearly in a culturally diverse workplace
- effectively communicate with and lead teams
- manage change in the workplace
- manage large-scale projects
- manage emerging technologies
- operate business in a sustainable fashion
- support occupational health and safety
- effectively function in a global economy
- analyze and perform research

Admission Requirements

General

- A two-year diploma in technology, a recognized trade's qualification, or an equivalent.
- Students are expected to have university-level writing skills upon entry. Writing skills will be assessed during the admission process. Those who do not have university-level writing skills should enrol in an introductory first-year English Composition or University Writing Course.

Residency

- The residency requirement for this on-campus program is 30 credits.

Program Requirements

Lower-Level Requirements (18 credits)		
Requirements	**Credits**	**Courses**
Composition and Interpersonal Communications	6 credits	ENGL 1100 or ENGL 1101 or CMNS 1290 or 1291 and CMNS 2170
Statistics	3 credits	STAT 1200 or STAT 1201
Organizational Behaviour	3 credits	ORGB 2810 or ORGB 2811
Economics	6 credits	ECON 1900 or ECON 1901 and ECON 1950 or ECON 1951
Upper-Level Requirements (45 credits)		
Economics	6 credits	ECON 3550 and 3710
Business Organization, Teamwork, and Leadership	12 credits	ORGB 3770, MNGT 3720 or MNGT 3641 or BBUS 3671, BBUS 4135, BBUS 4833, ORGB 4870 or ORGB 4871
Organizational Communication	3 credits	CMNS 4530
Occupational Health and Safety	3 credits	OCHS 3511
Emerging Technologies	3 credits	TECH 3010 or equivalent
Research Methods	3 credits	RSMT 3501 or equivalent
Project Management	6 credits	TECH 4910 and TECH 4920 or MNGT 4751
Specialization Electives	9 credits	Must be approved by a Program Advisor
Students should consult with a Program Advisor to ensure course selection is appropriate for their program of study and educational goals.		

Graduation Requirements

120 credits total, at least 45 of which must be at the upper-level including successful completion of all educational requirements with a grade point average (GPA) of 2.0 or higher.

Program Contact

TRU Enrolment Services: email AdvisorD@tru.ca

Web: tru.ca/admissions

Bachelor of Technology, Trades and Technology Leadership

The Bachelor of Technology, Trades and Technology Leadership program builds on your trades or technology qualifications, integrating your previous practical experience with studies in leadership and management skills.

NOTE: *This program is under review and may not be offered on campus, but is available through TRU Open Learning.*

Learning Options

The Bachelor of Technology, Trades and Technology Leadership offers flexibility and accessibility for working persons. Most courses are available online so that an individual can study from home with a schedule that suits them.

Program Overview

The Bachelor of Technology, Trades and Technology Leadership program provides qualified trades persons and technologists with the knowledge and skills necessary to become effective team leaders, supervisors and managers in a changing business and technical environment. Program admission is continuous, and many courses are available for registration at any time.

Admission Requirements

General

- Provincial Grade 12 Diploma or approved equivalent and Red Seal Trades Qualification or recognized diploma of technology.
- Students are expected to have university-level writing skills upon entry. This will be assessed upon admission. Those who do not should enrol in an introductory first-year English Composition or University Writing Course.

Residency

- A minimum of 15 TRU credits.

Program Requirements

General Education Requirements **Of the 15 Credits, 3 must be from upper-level courses**	
English	3 credits university-level composition and /or literature (ENGL 1001 or ENGL 1021)
Applied Communications	3 credits (CMNS 1811 or CMNS 1291)
Computing	3 credits (MIST 2611)
Natural Science	3 credits (generally upper-level)
Liberal Art or Science	3 credits (generally upper-level)
Core Leadership Requirements (18 Credits)	
Supervision or Management Principles	3 credits MNGT 1211 or MNGT 1221
Leadership	3 credits MNGT 3731
Motivation and Productivity	3 credits BBUS 4135
Organizational Development and Change	3 credits ORGB 4871
Occupational Health and Safety Legislation and Standards	3 credits OCHS 3511
Strategic Thinking for Leadership	3 credits LEAD 4901
Closed Electives Requirements (minimum 12 Credits)	
Open Thinking	3 credits BBUS 3611
Decision Analysis	3 credits MNGT 4711
Open Communication	3 credits BBUS 3631
Contemporary Leadership	3 credits BBUS 3671
Project Management	6 credits MNGT 4751
Effective Leadership	3 credits BBUS 4833
Open Electives Requirements (minimum 15 Credits)	
Business Ethics and Society	3 credits MNGT 3711
Financial Management	3 credits FNCE 2121
Production and Operations Management	3 credits BBUS 3331
Strategic Human Resource Management	3 credits BBUS 3661
Employee and Labour Relations	3 credits HRMN 3841
Commercial Law	3 credits BLAW 2911
Students should consult with a Program Advisor to ensure course selection is appropriate for their program of study and educational goals.	

Graduation Requirements

Successful completion of 120 credits (minimum 45 upper-level credits) with a grade point average (GPA) of 2.0 or higher.

Program Contact

TRU Admissions: Email AdvisorD@tru.ca

Open Learning: tru.ca/distance/programs/technology/bachelor-technology-leadership

Instrumentation Engineering Technology Diploma

This two year diploma program provides a first year foundation common to all engineering disciplines, while also developing the hands-on practical knowledge provided in the Foundation and Level Two Electrical Instrumentation apprenticeship curriculum as outlined by the British Columbia Industry Training Authority. Itabc.ca

Program Overview

This program covers two popular areas, one in engineering, and one in trades. Over two years and four semesters, students cover the entire first-year engineering transfer curriculum and are introduced to engineering design principles, drafting techniques, project management and structural analysis as well as the first two trade apprenticeship levels of the BC ITA/Red Seal Instrumentation and Control Technician.

This program is directed towards students who are undecided as to whether they wish to pursue a career in Engineering or in Electrical Instrumentation

Learning Options

Full-time | Kamloops campus | Program intake – September

Admission Requirements

Admission following high school graduation will require:

1. Pre-calculus 12 with B (73%) or better
2. Physics 12 with B (73%) or better
3. Chemistry 11 (12 is highly recommended) with B (73%) or better
4. English 12/English 12 First Peoples with 73% or better (or equivalent)

Students lacking Chemistry 12 may still be admitted but will need to complete CHEM 1500 during the program. Equivalent courses from other provinces, GED, or TRU University Preparation will also be accepted.

Although not mandatory, the following courses are very beneficial for high school students considering engineering technology studies at TRU or elsewhere:

- Calculus 12
- Drafting 12
- A computing or information technology course involving computer programming and problem solving using high level languages such as C/C++, Visual Basic, or Java.

Admission after a Year of Science or Related Studies

Successful admission to the Instrumentation Engineering Technology Diploma program from a science or related program will normally require:

1. An overall GPA of 3.0 (B) or better in previous university studies.
2. Grades of B or better in 1000 level Mathematics courses completed.
3. Grades of B or better in 1000 level Physics courses completed.
4. Grades of C+ or better in 1000 level English courses completed.

Students who have either completed the appropriate courses or Electrical Instrumentation Foundation Certificate program, may ladder into the program with advanced standing provided space is available.

Program Requirements

Year 1 Fall - Semester 1 (17 credits)	
INET 1000	Instrumentation Engineering Technology 1
APSC 1200	Introduction to Engineering
MATH 1130	Calculus 1 for Engineering
EPHY 1150	Physics for Engineers 1
ENGL 1100	Introduction to University Writing
Year 1 Winter – Semester 2 (15 credits)	
EPHY 1250	Physics for Engineers 2
MATH 1230	Calculus 2 for Engineering
CMNS 1290	Introduction to Professional Writing
INET 1500	Instrumentation Engineering Technology 2
Year 2 Fall – Semester 3 (15 – 18 credits depending if student has CHEM 12)	
MATH 1300	Linear Algebra for Engineers
COMP 1520	Principle of Software Development
DRAF 1520	Engineering Graphics
INET 2000	Instrumentation Engineering Technology 3
CHEM 1500 (if no CHEM 12)	Chemical Bonding and Organic Chemistry
Year 2 Winter – Semester 4	
CHEM 1520	Principles of Chemistry
EPHY 1700	Engineering Mechanics
EPHY 1990	Introduction to Engineering Measurements
INET 2500	Instrumentation Engineering Technology 4
Total 62 credits	

Graduation

Graduation from the program will require 50% or greater in each academic course in the program, while achieving 70% or greater in the instrumentation courses.

Students wishing to pursue an Engineering Degree should consult with the Engineering Co-coordinator early to ensure that they are aware of the GPA requirements of the option they wish to follow.

Laddering

Graduates are eligible to pursue the second year engineering program at UVIC, a Bachelor of Science, the Bachelor of Technology Leadership or the Bachelor of Technology.

Program Contact

Chair(s): Tom Haag 250-828-5119 or Peter Poeschek 250-828-5113

Web: tru.ca/programs/instrumentation-engineering-technology

Construction Trades

Construction Trades Training Options

The School of Trades and Technology offers Foundation Programs and/or Apprenticeship training for the following Construction Trades:

- Carpenter
- Electrician, Construction
- Electrician, Industrial
- Gasfitter A and B
- Horticulture
- Instrumentation and Control Technician
- Plumber
- Saw Filer (Williams Lake)
- Steamfitter/Pipefitter

Foundation Programs

TRU Trades Training Foundation Programs prepare students for entry into a specific trade. These programs are pre-employment, certificate programs that run six to nine months, providing a comprehensive introduction to a trade.

In-class learning, combined with hands-on practical skills, positions our graduates well for entry-level employment within the trades. Successful completion of our Foundation programs provides a jump-start to apprenticeship training by crediting students with Level 1 technical training plus 325-450 work-based training hours towards completion of their trade.

Foundation program information is available at: tru.ca/trades.

Apprenticeship Programs

Apprenticeship training is paid, work-based training combined with post-secondary education. Employers sponsor their employees by registering them as apprentices with the Industry Training Authority.

Typically, about 80% of an apprenticeship takes place on the jobsite, while the remaining 20 % takes place as technical in-school training. TRU offers this training in a classroom and shop setting for all levels of apprenticeship. This is a great way to “earn as you learn”, as most apprentices are eligible for Employment Insurance benefits while taking their in-school training.

Apprenticeship program information is available at tru.ca/trades/apprenticeship.

Industry Training Authority: Phone 1-866-660-6011 | Web itabc.ca

Carpentry/Joinery Foundation Certificate Program

This foundation program is an introduction to the carpentry and joinery trades. Students gain familiarity with the use of hand tools, portable power tools and other equipment regularly used by carpenters and cabinet makers. Students also have ample opportunities to work with the materials commonly used both trades. Theory and practice is offered to allow students to build numerous projects including stairs, forms for concrete, framed floors, walls, roofs, and simple cabinets.

Graduates receive credit for first –year technical training for both Carpenter and Cabinet Maker apprenticeship.

For more information, visit tru.ca/trades/trades-programs/carpenter.

Carpenter, Residential Construction Foundation Certificate

This foundation program is an introduction to the carpenter trade. Students gain familiarity with the use of hand tools, portable power tools and other equipment regularly used by carpenters. Students have ample opportunities to work with materials used by carpenters including lumber, panel products, concrete, roofing materials, fasteners, and a wide variety of hardware. Theory and hands-on practical work allows students to build numerous projects including stairs, concrete formwork, framed floor systems, walls, and roofs. Students spend approximately 70% of their time building various projects, including a major house project built in the community. Students enrolled in this program have built the “YMCA Dream Home” each year since 1999.

The successful graduate will be allowed to write both the first year and second year carpentry apprenticeship provincial exams. At that point, students have the option to enter the trade with the first two years of in-school training completed towards their apprenticeship. For more information, visit tru.ca/trades/foundation/carpentry

Carpenter Apprenticeship

TRU offers practical and technical training in years 1, 2, 3 and 4 of apprenticeship in carpentry. In most cases, apprentices are required to attend one period (seven-week session) of technical training in each year of their apprenticeship. Upon successful completion of all four training years, plus the required number of practical work hours, the apprentice will obtain a certification of qualification and will be permitted to write the inter-provincial examination for journeyperson status. For more information, visit tru.ca/trades/apprenticeship/carpentry.

Electrician, Electrical Trades Foundation Certificate Program

The Electrical Foundations program is designed to prepare students for employment in the electrical or related trades. Electricians are skilled in installing, maintaining and repairing electrical apparatus in residential, commercial and industrial environments.

Students learn about the care and use of hand tools and electrical meters; installation and maintenance of electrical equipment; electrical theory and calculations; and the Canadian Electrical Code. Students engage in extensive practical exercises to develop their job readiness skills, such as motor control, cable tray, conduit and residential wiring. For more information, visit tru.ca/trades/electrical.

Electricians are skilled in installing, maintaining, troubleshooting and repairing: electrical distribution systems, lighting, fire alarms, motor control components, motors, generators, programmable logic controllers (PLC's), distributed control systems, DC and AC power systems, and DC and AC speed drives. These skills are used in the industrial, commercial and residential environments. The journeyperson electrician works in a challenging and rewarding trade where technology is constantly changing and competition is high.

Electrical, Apprenticeship

TRU offers practical and technical training in years 1, 2, 3, and 4 of electrical. This training is offered to indentured industrial electrical apprentices. Apprentices are required to attend technical training that consists of ten weeks per year over a four-year period.

This apprenticeship program requires that apprentices complete a set of core knowledge competency standards of technical training, and a complete set of core workplace standards for each level (year) of the apprenticeship. For more information, visit tru.ca/trades/apprenticeship/electricalconstruction

Instrumentation and Control Technician, Foundation and Apprenticeship

The Instrumentation and Control Technician maintains process monitoring and control instruments required for the automation of industrial processes.

The instruments in the industrial environment include indicators, recorders, controllers, transmitters, and final control elements using electrical, electronic, pneumatic and hydraulic energy forms.

Instrumentation and Control Technicians are still in high demand in the provinces' oil and gas sectors as well as mining. TRU will offer the first-level of apprenticeship for this program.

Computers and associated software will be highly emphasized in the program recognizing the advancement of computer controlled systems in both the electrical and instrumentation trade.

Trades persons in the industrial electrical or instrumentation trade are employed by maintenance departments of factories, mines, mills, ship yards, petrochemical and many other industrial enterprises. For more information visit tru.ca/trades/foundation/im.

Carpenter, Residential Construction Foundation Certificate

This 30 week Foundation program is an introduction to the carpentry trade. Students gain familiarity with the use of hand tools, portable power tools and other equipment regularly used by carpenters. Students also have ample opportunities to work with the materials used by carpenters including lumber, panel products, concrete, roofing materials, fasteners, and a wide variety of hardware. Theory and practice is offered to allow students to build numerous projects including stairs, forms for concrete, framed floors, walls, and roofs. Students spend approximately 70% of their time building various projects of which the major project is a house built in the community. This carpentry program has built the YMCA Dream Home since 1999.

The successful graduate will be allowed to write both the first year and second year carpentry apprenticeship provincial exams. At that point students have the option of entering the trade with the first two years of in-school training completed towards their apprenticeship. For more information, visit tru.ca/trades/foundation/carpentry

Plumber, Steamfitter/Pipefitter, Sprinkler Fitter, Foundation and Apprenticeship

This program is an introduction to gas-fitting, plumbing, sprinkler system installation and steamfitter/pipefitter.

Students gain familiarity with the hand and power tools used in the field. Hands-on use of the tools and piping materials like copper, cast iron, black iron, and plastics comprise about 50% of the course. Fixture installation is part of this as well. The other half of the course consists of pre-practical training, as well as safety, trade math, and science.

Students are actively involved in the plumbing of a house in the community, working with other trade entry students from carpentry and the electrical departments. For more information, visit tru.ca/trades/foundation/plumber_pipefitter.

The TRU Piping Department offers technical training sessions for:

- Plumbing Apprenticeship
- Domestic - Commercial Gasfitter

At TRU all four levels or years of the Plumbing Apprenticeship training are offered, as well as the two levels, or years, of the Gas Fitting Apprenticeship. In addition, fourth-year students receive instruction in natural gas code and installation and have the opportunity to write and acquire a Class GBEE Gasfitters license as well as their Interprovincial Plumbing Trades Qualification.

Gas fitting Apprenticeship Class A and Class B.

Class A industrial gasfitter

Gasfitters (Class A) may install, test, maintain and repair propane/natural gas lines, appliances, equipment and accessories in residential and commercial premises. They are involved in the installation or alteration of any gas system, except vehicle fuel systems under the appropriate permit.

TRU offers an eight-week course in Class A industrial gasfitter. This instructor-driven offering includes classroom instruction and flame safeguard control lab sessions throughout its duration.

Class B domestic/commercial gasfitter

Levels 1 and 2 of the gas fitting apprenticeship are available at TRU.

- Level 1 — Technical training: 180 hours | Work-based training: Accumulate hours BCSA standardized level exam
- Level 2 — Technical training: 180 hours | Work-based training: 3,600 hours

For more information on plumbing and gas fitting, visit: tru.ca/trades/apprenticeship/pdcg or tru.ca/trades/apprenticeship/gasfitter.

Steamfitter/Pipefitter Apprenticeship Level 1, 2, 3 and 4.

Pipefitters use blueprints and project specifications to construct and repair piping systems that carry water, steam, chemicals and fuel.

Steamfitter/pipefitters test and maintain the systems once they are in place, using specialized equipment to ensure the safety of the pipes and other components of the system such as the automatic controls that are increasingly being used to monitor these systems.

Steamfitter/pipefitters often work on heating and cooling systems in large industrial plants as well as various systems in electric power plants. They must know how to work with a wide variety of materials because these systems are made of several different types of materials including steel, copper, plastic and numerous metal alloys. For more information visit tru.ca/trades/apprenticeship/pipefitter.

Program intake dates

Program lengths and start dates are subject to change. Please review the following link for updated Foundation program intake dates: tru.ca/trades/foundation.

Required Equipment

Students must supply their own safety boots and safety glasses.

Admission Requirements

Educational

- BC Grade 12, Adult Dogwood, or mature student status (or equivalent)
- Accuplacer Assessment per the chart below:

Program	Reading	Writing	Arithmetic	Quantitative Reasoning, Algebra & Statistics (QAS)
Carpentry and Joinery	240	240	250	240
Electrical	250	250	260	245
Instrumentation and Control Technician	250	250	260	245
Plumbing/Pipefitting	250	-	250	240
Residential Construction	240	240	250	240

Contact the TRU Assessment Centre for information and testing times by email assess@tru.ca or phone 250-828-5470. Out of town testing is available by contacting the Assessment Centre.

For more detailed admission information visit tru.ca/trades/foundation or tru.ca/trades/apprenticeship.

Program Contact

TRU Admissions for Foundation Programs: Email vmazzei@tru.ca
Phone 250-828-5046 | Web tru.ca/admissions

Apprenticeship Program Admissions: 250-371-5659
Toll-free 1-866-371-5659

Program information: dgeiger@tru.ca Ph: 250-852-7187
Construction Trades Chairperson: thaag@tru.ca Ph: 250-828-5119

Mechanical Trades

Mechanical Trades Training Options

The School of Trades and Technology offers Foundation and/or Apprenticeship training for the following mechanical trades:

- Automotive Service Technician
- Refrigeration and Air Conditioning Mechanic
- Heavy Mechanical Trades
  - Diesel Engine Mechanic
  - Industrial Mechanic (Millwright)/Machinist
  - Heavy Duty Equipment Technician
  - Truck and Transport Mechanic
  - Transport Trailer Technician

Foundation Programs

TRU Trades Training Foundation Programs prepare students for entry into a specific Trade. These programs are pre-employment, certificate programs that run six to nine months, providing a comprehensive introduction to a trade.

In-class learning, combined with hands-on practical skills, positions our graduates well for entry-level employment within the trades. Successful completion of our Foundation programs provides a jump-start to apprenticeship training by crediting students with Level 1 technical training plus 325-450 work-based training hours towards completion of their trade.

Foundation program information is available at: tru.ca/trades/foundation.

Apprenticeship Programs

Apprenticeship training is paid, work-based training combined with post-secondary education. Employers sponsor their employees by registering them as apprentices with the Industry Training Authority.

Typically, about 80% of an apprenticeship takes place on the jobsite, while the remaining 20 % takes place as technical in-school training. TRU offers this training in a classroom and shop setting for all levels of apprenticeship. This is a great way to “earn as you learn”, as most apprentices are eligible for Employment Insurance benefits while taking their in-school training.

Apprenticeship program information is available at tru.ca/trades/apprenticeship.Industry Training Authority 1-866-660-6011 | itabc.ca

Automotive Service Technician Foundation and Apprenticeship

This program is designed to take a student with little or no experience in the automotive field and give them the necessary skills for employment as an apprentice mechanic in the Automotive Service Technician trade. Apprenticeship technical training credit for first year will be granted upon successful completion of the program.

General shop practice, automotive fundamentals, engines, basic test equipment, electrical systems, running gear, clutches, transmissions, rear axles, steering systems and braking systems, applied mathematics and safety education will be covered. Strong emphasis is placed on practical training with numerous hands-on projects. Graduates should be able to develop enough skills to be hired on as an immediately productive employee - reducing the need for employers to invest further time and resources into training a new apprenticeship candidate. For more information, visit tru.ca/trades/foundation/ast.

TRU offers training for the Automotive Service Technician Apprenticeship in Levels 1- 4.

Automotive Service Technicians repair, adjust and replace mechanical and electrical parts of automobiles and light trucks in a retail automotive business. "Retail Automotive Business" means a business whose primary mechanical repair work is repairing and adjusting vehicles whose gross vehicle weight is under 5,500 kg. For more information, visit tru.ca/trades/apprenticeship/automotive.

Refrigeration and Air Conditioning Mechanic Certificate

This certificate program is designed to supply students with the necessary skills to seek employment in the Refrigeration and Air Conditioning industry. It will also provide the fundamental skills required to install, maintain, and troubleshoot different types of heating, ventilating, refrigeration and air-conditioning equipment.

Students who successful complete this program will receive credit for their Level 1 apprenticeship technical training and 425 work based training hours from the Industry Training Authority once they become a registered Refrigeration and Air Conditioning Mechanic apprentice.

A desirable attribute for individuals seeking employment in this trade is to have good problem solving skills, hand/eye coordination and attention to detail.

To graduate and receive the Refrigeration and Air Conditioning Certificate, students must successfully complete 27 credits (625 hours) with a minimum GPA of 2.0 based on the TRU vocational grading scale, as well as successful completion of each course within the program with a minimum grade of 70%.

Admission requirement for Refrigeration and Air Conditioning Mechanic Certificate

Grade 10 required, Grade 12 preferred
Successful completion of Accuplacer assessment.

Refrigeration and Air Conditioning Apprenticeship

TRU offers all levels of the Industry Authority (ITA) Refrigeration and Air Conditioning Mechanic Apprenticeship program—level 1, 2, 3 and 4.

Students must be registered apprentices with the Industry Training Authority and successfully complete each level before progressing to the next.

Registered apprentices (students) who successfully complete these courses in this program will receive credit for their Refrigeration and Air Conditioning apprenticeship technical training from the Industry Training Authority (ITA)

Heavy Mechanical Foundation Certificate

The Heavy Mechanical Foundation program supports pre-apprenticeship training for all four of the heavy mechanical trades. Credit is granted for Level one technical training and 450 hours of work based training time toward each of the four trades.

Heavy Duty Equipment Technician: Maintains, manufactures, overhauls, reconditions and repairs equipment powered by internal combustion engines or electricity and without limiting the foregoing, including graders, loaders, shovels, tractors, trucks, forklifts, wheeled and tracked vehicles of all types used in construction, logging, sawmill, manufacturing, mining and other similar industry.

Truck and Transport Mechanic: Maintains, rebuilds, overhauls, reconditions does diagnostic troubleshooting of motorized commercial truck, bus, and road transport equipment.

Diesel Engine Mechanic: A Diesel Engine Mechanic installs, repairs, and maintains all internal combustion diesel engines and components used in transport, construction and marine.

Transport Trailer Technician: Maintains, rebuilds, overhauls, reconditions, and carries out diagnostic trouble shooting and repairs of commercial trucks and trailers.

Heavy Duty Equipment Technician Apprenticeship

The Industrial Training Authority of BC approved a new apprenticeship model for this program and is offered to indentured apprentices. For more information, visit: tru.ca/trades/apprenticeship/hdm.

Truck and Transport Mechanic Apprenticeship

The Industrial Training Authority of BC approved a new apprenticeship model for this program and is offered to indentured apprentices.

For more information, visit:tru.ca/trades/trades-programs/transport-trailer-technician

Diesel Engine Mechanic Apprenticeship

The Industrial Training Authority of BC approved a new apprenticeship model for this program and is offered to indentured apprentices. For more information, visit:
tru.ca/trades/apprenticeship/diesel_engine_mechanic.

Transport Trailer Technician Apprenticeship

The Industrial Training Authority of BC approved a new apprenticeship model for this program and is offered to indentured apprentices. For more information, visit:
tru.ca/trades/apprenticeship/transport_trailer_technician.

Industrial Mechanic (Millwright) and Machinist Foundation Certificate and Apprenticeship

The foundation course is intended for those without prior experience in the Industrial Mechanic (Millwright) and Machinist field.

Students are introduced to and trained to perform the following skills: safely dismantle, install, set-up, repair, and overhaul and maintain machinery and heavy mechanical equipment. This includes; power transmissions, conveyors, hoists, pumps, compressors, alignment, fluid power and performing vibration analysis. This is an ITA program.

TRU also offers training for the Industrial Mechanic (Millwright) Apprenticeship in Levels 1-4.

Program intake dates

Program lengths and start dates are subject to change. Please review the following link for updated Foundation dates:
tru.ca/trades/foundation.

Required Equipment

Students must supply their own safety boots, safety glasses, welding gloves, welding hat/cap, and coveralls.

Admission Requirements

- BC Grade 12 / Adult Dogwood / mature student status or equivalent.
- Accuplacer assessment per the chart below

Program	Reading	Writing	Arithmetic	Quantitative Reasoning, Algebra & Statistics (QAS)
Automotive Service Technician	**250**	**-**	**250**	**240**
Heavy Mechanical	**230**	**-**	**240**	**230**
Refrigeration	**240**	**240**	**250**	**240**

Contact the TRU Assessment Centre for information and testing times by email assess@tru.ca or phone 250-828-5470. Out of town testing is available by contacting the Assessment Centre.

For more detailed admission information, visit tru.ca/trades/foundation or tru.ca/trades/apprenticeship.

Program Contact

TRU Admissions for Foundation programs: Email vmazzei@tru.ca
Phone 250-828-5046 | apply online at: tru.ca/admissions

Apprenticeship Program Admissions:

Phone 250-371-5659 | Toll-free 1-866-371-5659

Program information: dgeiger@tru.ca Ph: 250-852-7187
Mechanical & Welding Trades Chairperson: thaag@tru.ca |ph. 250-828-5119

Power Engineering Technology Certificate

This comprehensive one year certificate in power engineering technology is designed to supply students with the necessary skills to successfully attain their 4th Class Power Engineering Certification through Technical Safety BC. Students who successfully receive their qualification will have the necessary skills to seek employment working as a 4th Class Power Engineer.

Power Engineers work in commercial facilities that rely on small boilers such as hospitals, schools and high-rise buildings. They also work in industrial facilities using large boilers such as pulp mills, sawmills, power generation stations, petrochemical plants and mines. Power Engineers control and maintain the operation of steam boilers, refrigeration systems and auxiliary equipment such as pumps, compressors, steam turbines, electrical generators, cooling towers and water treatment systems.

Admission Requirements

Successful completion of the Accuplacer Assessment Tests.

Accuplacer assessment score required per the table below:

Program	Reading	Writing	Arithmetic	Quantitative Reasoning, Algebra & Statistics (QAS)
Power Engineering	250	250	250	240

Physics 11 is recommended.

Program Requirements

POWR 1000	Mechanical Science
POWR 1010	Safety & Environment
POWR 1020	Welding & Piping
POWR 1030	Boiler Design
POWR 1040	Plant Boiler 1
POWR 1042	Plant Boiler 2
POWR 1050	Power Engineering 4A Review
POWR 1052	Power Engineering 4B Review
POWR 1060	Prime Movers
POWR 1070	Electricity & Instrumentation 1
POWR 1080	Boilers, Equipment & Controls 1
POWR 1090	Refrigeration Systems 1
POWR 1100	Plant Experience 1
Total — 44 credits	

To receive a TRU Certificate a student must pass the TRU Power Engineering exam written at the end of semester 1 with a minimum of 70% and they must also pass the TRU Power Engineering exam written at the end of semester 2 with a minimum of 70%.

Program Contact

Mechanical & Welding Trades Chairperson: 250-828-5119 | thaag@tru.ca

Horticulture Management Diploma

The TRU Horticulture Management Diploma is an interdisciplinary program that combines the core principles of plant science and business management.

Learning Options

Full or part-time study is available

Many of the courses are available by distance learning

Program Overview

This program contributes to the knowledge and experience required to create and preserve sustainable urban environments while pursuing careers in landscape design, installation and maintenance, either as an independent entrepreneur or within a horticulture business or municipal parks department.

Horticulture is a unique combination of art and science, as students are eligible to pursue employment opportunities where they can be creative both in developing innovative strategies and practical applications in the field.

Students learn business knowledge and skills, and enhance employability and/or performance in the horticulture industry at a supervisory or management level. Students also develop valuable skills essential to the operation of their own horticultural business.

Admission Requirements

A recognized one- year certificate in Horticulture which includes six credits of approved English.

Students should note that they may be required to meet specific prerequisites for some of the diploma courses.

Program Requirements

This two-year diploma program consists of a mandatory one-year Certificate in Horticulture followed by two semesters of full-time equivalent study. The second-year of this program consists of 10 courses for a total of 30 credits.

Year two fall semester (15 credits)	
ACCT 2210	Financial Accounting
MIST 2610	Management Information Systems
ORGB 2810	Organizational Behaviour
Plus two electives from the list below*	
Year two winter Semester (15 credits)	
ACCT 2280	Accounting Software Systems
HRMN 2820	Human Resource Management
Plus three electives from the list below*	
***ELECTIVES**	
ACCT 2250	Management Accounting
ACCT 3220	Income Taxation
AGSC 2200	Food Systems at a Local Level and Beyond
BIOL 3430	Plants and People
BLAW 2910	Commercial Law
CMNS 1290	Introduction to Professional Writing
HORT 2000	Greenhouse Production
MKTG 2430	Introduction to Marketing
MKTG 3450	Professional Selling
NRSC 1110	The Science and Management of Natural Resources
NRSC 1220	Dendrology 2
NRSC 1120	Dendrology 1
NRSC 4250	Tropical Field Studies in Natural Resources
Total — 30 credits	

Program Contact

Program Coordinator:

Email ephilips@tru.ca | Phone 250-828-5180
Web: tru.ca/horticulture

Horticulture Certificate

The Horticulture Certificate program is a thirty-five week program. Graduates receive a Horticulture Certificate.

Learning Options

Full-time Study: Students attend the program on a full-time basis.
On-campus: Courses are offered at the Kamloops campus.
Program Dates: Classes begin in early August of each year and finish in late April.

Program Overview

Horticulture is the culture of vegetables, fruits, herbs, flowers, turf grass, and ornamental plants. The settings for this culture extend from the back yard grower to large commercial operations, such as greenhouses, orchards, vegetable farms, turf grass operations, forestry seedling nurseries, garden centres, golf courses, municipal parks, landscaping, and landscape maintenance firms.

The Horticulture Certificate program provides students with basic training for employment in a variety of areas within the horticulture field. The Department of Horticulture and its students are actively involved in grounds maintenance and ongoing landscape development at TRU. This is an integral part of the program and the campus grounds serve as an impressive showcase of student work. A three-week practicum at the end of studies allows students to further develop their skills and gain industry experience.

The program includes field trips, guest speakers and a three-week practicum. Instruction includes:

- Landscape maintenance techniques
- Operation of landscape equipment
- Basic pest management
- Landscape design and construction
- Plant identification
- Proper pruning techniques
- Plant propagation methods
- Basic irrigation hydraulics

Hands-on training

The certificate program is highly practical, with about 60% of class time being spent in hands-on skill development, including roster and greenhouse duties. Facilities include two greenhouses, cold frames, a nursery, the science laboratory, and the entire TRU landscape.

Admission Requirements

- BC Grade 12, (or equivalent) or mature student status

Orientation session:

- Applicants must attend an orientation session.

Recommendations for applicants:

- Applicants be in good physical condition.

- Applicants have a strong desire for hands-on work with plant materials.
- Persons with allergies to dust or pollen should be wary of entering the program.

Application Process

Applications are accepted at any time during the year. Students are encouraged to apply as soon as possible, as space in the program is limited. Related documents may be sent as they are received.

The minimum documentation required by Admissions to start the application process includes:

- A completed online application (including the application fee)
- An official transcript of final high school marks from province of completion or an official statement of equivalency

Space in the program is limited to 28 seats which are allocated on a first come/first serve basis, using the date by which students meet all requirements: submitting a complete application; submitting an official transcript of high school marks or an official copy of equivalence; and successful achievement on the assessment test.

Orientation sessions

Attendance at an orientation session is a prerequisite for entry into the Horticulture program. For details, see the information sheet in the Application for Admission package at tru.ca/programs/catalogue/horticulture-certificate.

Students who are unable to attend the orientation must contact the program coordinator at 250-828-5181.

Program Requirements

Fall Semester – August to December	
CMNS 1300	Professional Writing for Horticulture
HORT 1500	Basic Horticulture
HORT 1510	Greenhouse Production
HORT 1520	Diseases and Insect Pests
HORT 1540	Soil Science
HORT 1700	Horticulture Practical 1
Winter Semester - January to April	
CMNS 1310	Advanced Professional Writing for Horticulture
HORT 1600	Weeds
HORT 1610	Nursery Production and Retailing
HORT 1620	Fruit and Vegetable Production
HORT 1630	Landscaping
HORT 1640	Turf Grass Management
HORT 1800	Horticulture Practical 2
HORT 1900	Horticulture Practicum

Program Progression and Graduation

To enter the winter semester, students must achieve at least 70% in all courses in the fall semester. In order to graduate from the program, students must achieve at least 70% in all courses.

Program Contact

Program Coordinator email ephilips@tru.ca | phone 250-828-5180

TRU Admissions email admissions@tru.ca | phone 250-828-5046

Professional Cook 1, 2 3

TRU offers the ITA Professional Cook level 1 and level 2 certification program and the Professional Cook Red Seal Certification program (Professional Cook level 3). For more information please see the Faculty of Adventure, Culinary Arts and Tourism section of this calendar or on the web at: tru.ca/culinary-arts/professional-cook .

Retail Meat Processing | Meatcutter

TRU offers a nine-month program in Retail Meat Processing and both Level 1 and Level 2 of the Meatcutter Apprenticeship training for registered apprentices. For more information please see the Faculty of Adventure, Culinary Arts and Tourism section of this calendar or on the web at: tru.ca/culinary-arts/meatcutter .

Water and Wastewater Technology Diploma

The Water and Wastewater Technology program is a two-year, four-semester diploma program.

Learning Options

Program start dates:

Term 1 – September to December

Term 2 – January to May

Program Overview

The diploma program prepares students to operate and maintain water and wastewater treatment, distribution, re-use, and disposal facilities, as well as how to monitor water quality. This program is designed to educate students in chemistry, microbiology, mathematics, mechanical and electrical systems, instrumentation and treatment technologies as they are applied in the water industry. Students also study environmental law, occupational health and safety, communications and utility management. During the hands on lab components, students are trained in the operation, maintenance, troubleshooting of water systems and processes.

Admission Requirements

- Grade 12 (or equivalent)

Application process:

Apply online at Apply for Admission.

Program Requirements

WTTP 1700	Water Sources
WTTP 1710	Water Treatment 1
WTTP 1720	Applied Math and Science
WTTP 1730	Mechanical Systems 1 and Water Distribution
WTTP 1740	Environmental, Safety and Communications
WTTP 1760	Introduction to Wastewater and Wastewater Collection Systems
WTTP 1800	Applied Electrical systems
WTTP 1820	Instrumentation 1
WTTP 1830	Mechanical Systems 2 and Energy Management
WTTP 1850	Water treatment 2
WTTP 1860	Wastewater Utility 1
WTTP 2710	Water Chemistry
WTTP 2720	Advanced Coagulation and Particle Removal
WTTP 2730	Filtration
WTTP 2740	Disinfection
WTTP 2760	Wastewater Utility 2
WTTP 2800	Microbiology and Toxicology
WTTP 2820	Instrumentation 2
WTTP 2830	Management/Leadership Skills
WTTP 2840	Source Water Protection and Management
WTTP 2860	Industrial Wastewater Pollution and Treatment
Total 63 credits	

Graduation requirements:

To graduate, students must successfully complete 63 credits with a minimum GPA of 2.0 based on the TRU vocational grading scale, as well as successful completion of each course within the program with a minimum grade of 70%.

EOCP grants 900 hours towards industry certification for the two year diploma program. In order to obtain the 900 hours for industry certification, students must meet 90% attendance requirement for lectures and 100% for labs.

Laddering

The program offers a flexible laddering program structure. Students may choose to exit the program after completion of the first year of studies with a certificate in Water and Wastewater Utilities or complete the entire diploma. This program also ladders into the TRU Bachelor of Technology, the Bachelor of Technology, Trades and Technology Leadership, or the Bachelor of General Studies.

Program Contact

Program coordinator: spaul@tru.ca | phone 250-371-5955
Web tru.ca/trades/programs/water

Water and Wastewater Utilities Certificate

This program trains learners in the diverse elements that are required to safely operate water and wastewater systems.

Learning Options

Program Dates and Times

Term 1 - September – December | Term 2 - January - May

Program Overview

This is a two-semester certificate program that covers the theory required to safely operate, and troubleshoot treatment processes, mechanical, electrical and instrumentation systems as they apply to both water and wastewater treatment. Students also learn about water sources and factors influencing water quality.

Admission Requirements

- Grade 12 (or equivalent)

Application process:

Apply online at Apply for Admission.

Program Requirements

WTTP 1700	Water Sources
WTTP 1710	Water Treatment 1
WTTP 1720	Applied Math and Science
WTTP 1730	Mechanical Systems 1 and Water Distribution
WTTP 1740	Environmental, Safety and Communications
WTTP 1760	Introduction to Wastewater Utility and Wastewater Collection Systems
WTTP 1800	Applied Electrical systems
WTTP 1820	Instrumentation 1
WTTP 1830	Mechanical Systems 2 and Energy Management
WTTP 1850	Water treatment 2
WTTP 1860	Wastewater Utility 1
Total 33 credits	

Laddering

Students graduating with a Certificate in Water and Wastewater Utilities will be able to ladder into the Water and Wastewater Technology Diploma program.

Graduation requirements:
To graduate, students must successfully complete 33 credits, with a minimum graduating grade point average (GPA) of 2.0 based on the TRU vocational grading scale, as well as successful completion of each course within the program with a minimum grade of 70%.

EOCP grants 450 hours towards industry certification for the certificate program. In order to obtain the 450 hours for industry certification, students must meet 90% attendance requirement for lectures and 100% for labs.

Program Contact

Water Education Programs
Program coordinator: email spaul@tru.ca | phone 250-371-5955
Web tru.ca/trades/programs/water

Welding Trades Programs

Training Options

The TRU School of Trades and Technology has three training options for welders:

- Foundation Training: Entry-level training for those with minimal or no experience
- Apprenticeship Training: Advanced training for registered apprentices
- Continuing Studies. General interest and upgrading for individual needs.

Overview

Welders have training in the welding of various steel and aluminum parts using the SMAW, GTAW and FCAW processes.

Usually, welders use manual or semi-automatic welding equipment to fuse metal pieces together. They use flame-cutting, brazing and soldering equipment. Heat is applied to the pieces to be joined, melting and fusing them to form a permanent bond. They use metal shaping machines such as brakes, shears and other metal straightening and bending machines. Welders generally plan work from drawings or by analyzing the job tasks, determine the materials required and the welding processes, then use their knowledge of welding to complete the job. They may specialize in certain types of welding such as custom fabrication, ship building and repair, pressure vessel welding, pipeline construction welding, structural construction welding or machinery and equipment repair welding.

Welders use blueprint symbols to determine machining operations. They check product specifications using precision measuring instruments, and maintain equipment and replace parts when required.

Manual dexterity is important for workers in this trade. Good physical health and agility are necessary. Analytical ability and an understanding of computerized machinery are important. These workers must be able to read simple instructions and follow them precisely. They should enjoy routine tasks, and working with others.

Good communication skills are also important. A willingness to continue training and taking specialized training courses is usually necessary in order to be successful.

Most people in these occupations work 40 hours per week. Some mills and processing plants operate on shifts during days, nights and weekends.

Visit the Industry Training Authority site at itabc.ca for more information on welding trades.

Welder Foundation Certificate

This introductory welding program prepares learners for entry-level positions as apprentice welders in most sectors of the industry, including manufacturing, construction, transportation, resource extraction and resource development. Students engage in a variety of classroom and shop activities. In the classroom, they learn theoretical principals of welding. Shop sessions provide the hands-on opportunity to learn processes and master practical welding skills.

Successful graduates receive ITA Level 1 and Level 2 certification and 300 hours credit towards the work-lace-based training component of their apprenticeship.

Learning Options

The Welder Foundation Certificate is normally 28 weeks x 30 hours full-time, but may be delivered on a different schedule.

Program start dates - End of January and end of July

Admission Requirements

Educational Requirements

1. BC Grade 10 minimum—Grade 12 strongly recommended
2. Accuplacer assessment score required per the table below:

Program	Reading	Writing	Arithmetic	Quantitative Reasoning, Algebra & Statistics (QAS)
Welding	230	-	240	230

Contact the TRU Assessment Centre at 250-828-5470 for more information on Accuplacer and for testing times and locations. There is a charge to write the test each time. Out of town testing is available.

General Requirements
Canadian citizen or permanent resident of Canada

Recommended:

- BC Grade 12
- Good vision, unimpaired hearing, respiration and good physical health in general are recommended. Good manual dexterity.

Required Equipment

Students are required to supply their own welding gloves, leather jacket, welding cap, goggles, helmet, and safety boots. Tool boxes and tools may be purchased at the Tool Room (TT252). Students are provided with an extensive equipment list at time of registration in the program.

Welder Level B

Welding Level B technical training is 16 weeks in length. 1,620 hours of work experience are also required. (Equivalent to Welding Apprenticeship Level 3.) Welders who have Level C technical training and who can demonstrate some workplace hours through their log book are eligible to enter Level B training.

Welder Level A

Welding Level A technical training is 8 weeks in length. 1620 hours of work experience are also required. (Equivalent to Welding Apprenticeship Level 4.) Applicants must have completed Welding Level B.

Welder Apprenticeship Training

TRU offers technical training for registered Welding apprentices. Students must be registered apprentices with a provincial apprenticeship system, and must have a trade worker apprenticeship number. Apprentices complete one 8-week training session and work-based training hours between each level of technical training. It typically takes three years to complete a welding apprenticeship.

Welder Apprenticeship Program Start Dates

Classes are offered throughout the year. Please see: tru.ca/trades/apprenticeship for current class schedules.

Program Contact

Foundation program: Email dgeiger@tru.ca

Welding Instructor/Tester: Phone 250-828-5105

Apprenticeship Program Admissions: Phone 250-371-5659
Toll-free: 1-866-371-5659 | Email apprenticeship@tru.ca

Women in Trades

The Women in Trades Training (WITT) program introduces women who are unemployed or under-employed to theoretical and practical learning in variety of trades.

Women of all ages, backgrounds, and skill levels are welcome to apply to the ITA Women in Trades Training program. No previous experience in the trades is required, but women who have trades experience may be able to skip introductory or exploration programs and be streamlined into pre-apprenticeship programs. They can also opt to take a challenge. If they are successful, will give them industry recognition for their existing skills, and if they have advanced skills and experience, they may be able to find a level-one apprenticeship without taking the exam. For more information, visit ITA Women in Trades.

Program Overview

Thompson Rivers University, School of Trades and Technology offers the Women Exploring Trades program which will allow women to participate in six of the following Red-Seal trade areas over the duration of this program:

- Carpentry
- Electrician
- Instrumentation Mechanic
- Industrial Mechanic
- Heavy Duty Mechanic
- Piping
- Refrigeration and Air Conditioning Mechanic
- Welding
- Life skills
- Work Readiness skills (includes math upgrade)

(Programming is subject to change)

In each of the above areas, candidates are taught the essential skills for each trade along with related safe work practices while participating in practical and theoretical labs. All classes are taught by TRU faculty who hold a Red-Seal certification in the trade and have many years of Industry experience. There is a limit of 16 students per class.

Students that successfully complete the exploratory program, are encouraged to enrol into a trade's foundation or apprenticeship program and pursue a career in trades and technology.

Admission Requirements

Students are required to review the eligibility criteria.

Program Requirements

Students must be able to commit to 14 weeks of full-time course work and participate in all aspects of the program.

Program Contact

Women in Trades Co-ordinator:
Phone 250-371-5658 | Email witt@tru.ca
Web tru.ca/trades/programs/women-in-trades

Youth Train in Trades Program

The Youth Train in Trades program allows high school students to take technical training that gives them dual credit for high school courses and apprenticeship or industry training programs. This is an innovative partnership between TRU and School District 73. As early as grade 10 students can apply to pursue an apprenticeship career path to obtain the first level of technical training in a particular trade in their grade 12 year. Each Train in Trades program is **tuition free** (**Note:** Please consult the current Train in Trades application for details as some fees apply).

Program Overview

Thompson Rivers University, School of Trades and Technology offers secondary students the following trades at TRU:

- Automotive Service Technician
- Carpenter - Residential Construction (levels 1 and 2)
- Electrician
- Heavy Duty Mechanic
- Horticulture
- Instrumentation and Control Technician
- Industrial Mechanic (Millwright/Machinist)
- Piping trades: plumber/steamfitter, pipefitter, and sprinkler fitter
- Professional Cook 1
- Refrigeration and Air Conditioning Mechanic
- Retail Meat Processing – Meatcutter
- Welder

Program Requirements

All students must contact their local high school Trade and Transitions Coordinators to ensure that they meet all high school graduation requirements. In addition, students are required to pass the ACCUPLACER test requirements for their trade.

Program Contact

Youth Train in Trades Programs tru.ca/trades/programs/youth-train-in-trades

Email dgeiger@tru.ca | Phone 250-852-7187

Williams Lake Campus

TRU'S Williams Lake campus is situated on the traditional and unceded lands of the T'exelc (Williams Lake Indian Band) within the traditional territory of the Northern Shuswap people.

The Thompson Rivers University Williams Lake campus offers a wide range of courses and programs. For a full list and for more details of the programs and courses available at the TRU Williams Lake campus please visit us on the web at: tru.ca/williamslake.

Williams Lake Campus Mailing Address	**For general information**
Thompson Rivers University Williams Lake 1250 Western Avenue, Williams Lake, BC, V2G 1H7	Email wlmain@tru.ca Phone 1-250-392-8000 | Toll Free 1-800-663-4936 Fax 1-250-392-4984 **For admissions/registration information** Email wladmissions@tru.ca Phone 1-250-392-8020

Student Services

Academic Advising

Our Advisors provide individuals and groups with current information about courses and programs and assist them in preparing educational plans.

Advisors establish and maintain liaison with schools, colleges, universities, institutes and organizations to advise students of TRU course transferability.

They assist students in preparing their educational plans for admission to programs and courses and can recommend placement on the basis of entry tests and prerequisite courses.

To make an appointment, please call 250-392-8000 or email wlmain@tru.ca

Bookstore

The TRU Williams Lake Bookstore offers more than textbooks. It carries a wide selection of TRU clothing, stationary, gifts, calculators, TRU graduation frames, specialized course materials and TRU bookstore gift cards.

Contact the Williams Lake Bookstore by phone at 250-392-8004.

Counselling

Counselling deals with personal issues that may affect a student's academic performance and/or well-being. Visits to the counsellor are voluntary and confidential, within the limits of the law, and are designed to help students work out their own solutions for academic, vocational, social or personal problems. The major focus is on career counselling and short term or crisis intervention.

The Counsellor also conducts workshops throughout the year on various topics such as career planning, stress/time management, study skills and test anxiety.

Appointments are booked in advance, but emergency or crisis situations are dealt with as quickly as possible.

To book an appointment, please call 250-392-8000 or email wlmain@tru.ca.

Library

The TRU Library, Williams Lake branch, offers a variety of learning and studying support for all students. Students will find group study rooms, lounge space, active-learning group study tables, computers, access to online electronic resources (eBooks, videos, and databases) and support from the TRU branch librarian.

The library is located in the Library Centre and can be accessed through the bookstore. To contact the library please call 250-392-8030.

Services for Indigenous Students: Located in the Gathering Place

The Williams Lake Indigenous Services Coordinator provides general information on admissions and educational program options at TRU and communicates with support services, academic advisors, bands and high school coordinators for Williams Lake students. The Coordinator also assists Indigenous students in achieving student success and acts as a liaison with bands, communities, and local agencies. Support is accessible to all students and it is often the key to their success.

The Gathering Place team also supports all students with access to hundreds of Open Learning courses and programs.

For details on services please contact the Williams Lake Indigenous Services Coordinator at 250-392-8009.

Security

On the Williams Lake campus, security is provided by PDS Security. PDS Security can be contacted by calling 250-398-6791.

In an emergency always call 911 for police, fire or ambulance services and then contact security as soon as it is safe to do so.

Administrative Assistant Certificate

The Administrative Assistant Certificate is completed over an eight-month period and prepares students for employment in a variety of office positions. Emphasis is placed on developing a student's communication, software application, accounting skills and their ability to work effectively as part of a team while demonstrating a high degree of competence and personal initiative.

After completing the Administrative Assistant Certificate, graduates can pursue the Certified Administrative Professional (CAP) or Organizational Management (OM) designation. They can also ladder into the Executive Assistant Diploma and then possibly a business degree either on-campus or online.

Those who complete just the Fall Semester courses will be awarded a Business Fundamentals Certificate.

Admission Requirements

1. BC Grade 11 (Grade 12 preferred) or mature student status
2. English 12/English 12 First Peoples with a minimum of 67% or equivalent
3. Minimum keyboarding speed of 25 net words per minute

For more detailed program information and course descriptions, visit tru.ca/williamslake/programs/Assistant

Applied Sustainable Ranching Certificate

The Applied Sustainable Ranching Certificate program focuses on topics relating to creating a sustainable business enterprise; business strategy, financial management, finance, human resources, marketing, communication and conflict resolution and land governance.

Students experience how to create environmentally sustainable ranch enterprises that include the following aspects: biodiversity, soil health, riparian and water management, range ecology, grazing management, invasive species, wildlife interactions, urban agriculture interface, culinary, and medicinal plants uses by indigenous peoples.

Students develop hands-on skills in humane animal care, stockmanship, stock dog training, fencing, equipment maintenance and developing a farm safety plan. They also learn how to identify opportunities for enterprise diversification and touch on key success factors and average production/income benchmarks. Students then develop financial projections including gross margin and return on investment calculations for greenhouse, vegetables and landscape horticulture, fruits and berries, on-farm processing, farm store, pasture pork and poultry enterprises.

This program gives graduates the tools for building and sustaining the ranching industry in BC and around the world, as well as the expertise to apply to any agriculture enterprise in any region.

The Applied Sustainable Ranching program is only offered through the Williams Lake campus, however, students are not required to live in Williams Lake to take the program. Due to the flexible blended learning model, students living and working on any ranch in BC may enrol in the program without having to move away from home. Students may attend the weekly seminars in person or via video conference. It is a program requirement, however, that students attend one seminar per course in person.

Admission Requirements

1. High School Graduation or mature student status
2. Foundations of Math 11 with a minimum C grade or equivalent
3. English 12/English 12 First Peoples, or equivalent
4. Students are responsible for finding their own, suitable work experience placement however the program coordinator will provide contacts for both students and host ranches. (Students are expected to complete 20 hours per week of work experience on a farm or a ranch for the duration of the program).

For more detailed program information, course descriptions and program contact information, visit tru.ca/ranching
Program coordinator phone 250-319-2367 | Email gwatt@tru.ca

Applied Sustainable Ranching Diploma

The Applied Sustainable Ranching Diploma program is a 60 credit, 19 month program that builds on the courses completed in the certificate program.

In the second year, the program focuses on topics relating to beef, sheep and forage production, agri-tourism and business plan creation.

Students experience how to manage ranch enterprises that include the following aspects:

- Herd and flock health and nutrition, genetics and breeding programs, finishing, processing and lean meat yield as well as marketing and logistics. Development of hands-on skills in forage production and harvesting
- Identifying soft-adventure and agri-tourism opportunities within global and local contexts
- How to create a holistic five-year business plan for the ranch operation including all enterprises.

The TRU Applied Sustainable Ranching Diploma is only offered through the Williams Lake campus, however, students are not required to live in Williams Lake to take this program.

Admission Requirements

1. High School Graduation or mature student status.
2. Foundations of Math 11 with a minimum C grade or equivalent.
3. Students are responsible for finding their own suitable work experience placement however the program coordinator will provide contacts for both students and host ranches. (Students are expected to complete 20 hours per week of work experience on a farm or a ranch for the duration of the program).

For more detailed program information, course descriptions and Ranching program contact information, visit: tru.ca/ranching.
Program coordinator: phone 250-319-2367 | Email gwatt@tru.ca.

Education Assistant and Community Support Certificate

The Faculty of Education and Social Work offers an eight-month Education and Community Support Certificate. This program prepares students to provide support and service to children or adults with exceptionalities. Graduates are able to assist individuals with special needs to learn educational, social, vocational, recreational and personal life skills. This program accepts a limited number of students.

The Williams Lake campus offers this program on a full-time basis every other year.

For admission requirements or more detailed information, please visit tru.ca/williamslake/programs/humanservice

Health Care Assistant Certificate

The 27-week Health Care Assistant Certificate program is designed to prepare graduates to function, under supervision, as Health Care Assistants. It teaches students the skills they need to help older adults in residential care facilities, assisted living facilities and in clients' private homes. This is a career that is both challenging and rewarding.

The focus is on learning to assist older adults in meeting their basic physical, emotional, environmental and social needs. Students learn to provide practical assistance to help clients maintain maximum independence within the limits of their ability.

Students also learn to practice in an ethical, responsible and accountable manner, using caring and respectful communication skills. Students will learn to think critically and creatively to meet the varying needs of clients and to work effectively as a team member.

The program is offered on a full-time basis at the Williams Lake campus, every other year, as well as at all TRU Regional Centres simultaneously through a blended learning delivery model, including face-to-face, online and teleconferencing. Interested students are encouraged to contact TRU Williams Lake admissions to confirm the next program intake.

For admission requirements and more detailed information, visit: tru.ca/williamslake/healthcareassistant

Human Service Diploma

The Human Service Diploma prepares students for careers with agencies that provide support and assistance to individuals coping with economic disadvantage, mental health issues, developmental, gender and diversity issues, as well as challenges such as addiction, family change and involvement with the justice system. Students who wish to continue their education have the opportunity to ladder into Child and Youth Care or Social Work degree programs.

The Williams Lake campus offers a year one intake every other year. Students who have successfully completed their Early Childhood Education Diploma, Educational Assistant and Community Support Certificate or Social Services Worker Certificate may be eligible to enter into Year 2 of the program.

For more detailed information, please visit tru.ca/williamslake/programs/humanservice

Practical Nursing Diploma

The two-year Practical Nursing Diploma program provides learners with the knowledge, skills, judgement and attitude to perform to the competencies identified by the College of Licensed Practical Nurses of British Columbia.

The program, provides a learning experience that is integrated, professional, collaborative and culturally sensitive with an aim to prepare graduates to care for individuals and families at multiple life stages and in a variety of practice settings.

Upon completion of the program, learners will possess the competencies to successfully complete the Canadian Practical Nurse Registration Exam (CPNRE). This program follows the provincial practical nursing education curriculum.

The Practical Nursing Diploma is only offered at the TRU Williams Lake campus every other year. The next intake of students for this program is September 2020. Applications are accepted from October 1 to May 1.

For admission requirements or more detailed information, visit: tru.ca/williamslake/practicalnursing

Trades and Technology Programs

Carpenter Foundation Certificate

This program is an introduction to the carpentry trade. Students gain familiarity with the use of hand tools, portable power tools and other equipment regularly used by carpenters. Students also have ample opportunities to work with the materials used by carpenters including lumber, panel products, concrete, roofing materials, fasteners and a wide variety of hardware.

Theory and practice is offered to allow students to build numerous projects including stairs, forms for concrete, framed floors, walls and roofs. Students spend approximately 70% of their time building various projects of which the major project is a house built in the community. Depending on the final project, this course can range from 24 to 30 weeks in length.

Graduates can receive credit for first-year apprenticeship technical training. The Williams Lake campus offers this program every other year. For admission requirements and more detailed information, please visit: tru.ca/williamslake/programs/trades/carpenter

Electrical Trades Foundation Certificate

This program is designed to prepare people for employment in the electrical or related trades.

Electricians are skilled in installing, maintaining, troubleshooting and repairing electrical apparatus in residential, commercial and industrial environments, including electrical distribution systems, lighting, motor control components, motors, generators and DC and AC power systems.

The journeyperson electrician works in a challenging and rewarding trade where technology is constantly changing.

The course covers care and use of hand tools and electrical instruments, installation and maintenance of electrical equipment, electrical theory, calculations and the Canadian Electrical Code. Students engage in extensive practical exercises to develop their job readiness skills.

For admission requirements and more detailed information, please visit: tru.ca/williamslake/programs/trades/electrical_fountation

Electrical Second Year Apprenticeship

This program is offered to indentured electrical apprentices. Electrical apprentices are required to attend technical training ten weeks per year over a four year period. This apprenticeship program requires that apprentices complete a set of core knowledge competency standards of technical training and a complete set of core workplace standards for each level (year) of the apprenticeship. The apprentice will have to provide evidence to a certified assessor to prove competence for the core workplace competency standards. The completion of competency standards will be tracked by the use of a logbook provided for the apprentice and maintained by the apprentice for all four levels of the apprenticeship.

For admission requirements and more detailed information, please visit: tru.ca/williamslake/programs/trades/electrical_second

Heavy Mechanical Trades

The Heavy Mechanical Foundation program supports pre-apprenticeship training for all four of the heavy mechanical trades. Credit is granted for Level One technical training and 450 hours of work-based training time toward each of the four trades:

Heavy Duty Equipment Technician maintains, manufactures, overhauls, reconditions and repairs equipment powered by internal combustion engines or electricity and without limiting the foregoing, including graders, loaders, shovels, tractors, trucks, forklifts, wheeled and tracked vehicles of all types used in construction, logging, sawmill, manufacturing, mining and other similar industries.

Truck and Transport Mechanic maintains, rebuilds, overhauls, reconditions, and performs diagnostic troubleshooting of motorized commercial truck, bus and road transport equipment.

Diesel Engine Mechanic installs, repairs, and maintains all internal combustion diesel engines and components used in transport, construction and marine.
Transport Trailer Technician maintains, rebuilds, overhauls, reconditions and does diagnostic trouble shooting and repairs of commercial trailers.

Foundation programs cover all aspects necessary for graduates to enter the trade as an apprentice. The program is a pre-apprentice/trade entry and does not require any previous experience or training in the industry. Strong emphasis is placed on practical training with numerous hands-on projects. Graduates should be able to develop enough skills to be hired on as an immediately as a productive employee - reducing the need for employers to invest further time and resources into training a new apprenticeship candidate.

For admission requirements and more detailed information please visit: tru.ca/williamslake/programs/trades/heavyduty

Saw Filer - Levels 1, 2, and 3

A Saw Filer is a person who fits all types of saws, including circular saws, band saws, gang saws and chain saws. They operate, repair and adjust saw sharpening equipment and are also competent to bench all circular and gang saws, including tensioning, welding cracks, welding on teeth and includes any other work that is usually performed by a Saw Filer in the lumber manufacturing industry. Three trades make up the saw trades: Saw Fitting, Circular Saw Filer, and Benchperson.

The Saw Filer Apprentice program provides the knowledge and skills required to become both a provincially and inter-provincially certified tradesperson.

Thompson Rivers University Williams Lake campus is the only training institution in BC that offers technical training for these trades.

To begin an apprenticeship to become a circular saw filer, it is recommended learners complete 840 hours of work-based training working in a saw filing room and assisting saw filers in their work.

Apprentices must also find an employer who is approved to provide on-the-job training in saw filing and is willing to register the apprentice and keep a record of their performance.
For more information, visit:
tru.ca/williamslake/programs/trades/sawfiler

Welding Foundation Program

Welding is an industrial art in a highly competitive field. It requires constant physical coordination of arms, hands and eyes. Students develop manipulative skills through manual training.

Related gas welding and arc welding theory, basic metallurgy, basic blue print reading, applied mathematics and principles of safety are some of the technical subjects covered. Upon completion of the course students will have gained sufficient practical experience and related theory to take a variety of job tests. Level 1 and 2 Welding Foundation is a 24-week program, with start dates in February each year.

For admission requirements and more detailed information, please visit: tru.ca/williamslake/programs/trades/welding_programs.

Welding Levels B and A

TRU offers technical training for registered welding apprentices.

Students must be registered apprentices with a provincial apprenticeship system and must have a trade worker apprenticeship number.
Apprentices complete one 8-week training session and work-based training hours between each level of technical training. It typically takes three years to complete a welding apprenticeship.

Level "B" (16 weeks) and Level "A" (8 weeks) Welding are offered with start dates beginning in February.

For admission requirements and more detailed information, please visit: tru.ca/williamslake/programs/trades/welding_apprentice.

University Transfer Programs

The Williams Lake campus offers transfer programs for the following degrees programs:

Bachelor of Science in Nursing, Years 1 and 2 (New student intake in even years)

TRU Williams Lake offers the first two years of the BScN program every other year. The next intake of students for this program is September 2020. Applications are accepted from October 1 to January 31.

The Bachelor of Science in Nursing is a four-year, limited-seat degree program that entails eight academic semesters starting alternating years in September for 24 students. Upon successful completion of the BScN Degree Program, graduates are eligible to write the National Council Licensure Examination (NCLEX). Upon successful completion of the NCLEX, you can apply for registration to the British Columbia College of Nursing Professionals (BCCNP) to practice as a Registered Nurse. TRU Williams Lake offers years 1 and 2 of the BScN program. Students can continue their studies at TRU Kamloops.

For admission requirements or more detailed information, please visit tru.ca/williamslake/nursingprograms/bsn

Bachelor of Arts, Year 1

TRU Williams Lake offers year 1 of the Bachelor of Arts program. Courses in anthropology, archaeology, English, history, philosophy, psychology and sociology are offered on an annual basis. These courses can accumulate credits towards various programs while you choose the path best for you. These courses can also help you prepare for the following degrees:

- Bachelor of Arts
- Bachelor of Education
- Bachelor of Journalism
- Bachelor of Social Work

Students should refer to the university website and consult an Academic Advisor for admission requirements and more detailed information.

Developmental Programs

University and Employment Preparation

The University Preparation program (UPREP) at TRU offers a variety of Adult Basic Education (ABE) courses and programs for students with diverse educational backgrounds and academic goals.

Gain access to a specific course or complete your BC Adult Graduation Diploma (formerly called the Adult Graduation [Dogwood] diploma). Adult Basic Education helps with bridging to a career, vocational, or academic program.

If your goal is to obtain a BC Adult Graduation Diploma our UPREP program can assist you. This diploma represents the completion of the adult secondary graduation program. Students must complete five courses to be eligible for the Diploma and can complete a portion of these courses at the Williams Lake campus.

To be eligible for the Adult Graduation (Adult Dogwood) Diploma, a person must be 18 years or older in that calendar year. A 17 year old who has been out of school for at least a year may be admitted to an adult program with approval.

Note: Courses from the BC School System may be counted toward the diploma; however, at least three courses must be taken as an adult.

For admission requirements and more detailed information, please visit: tru.ca/williamslake/programs/universityprep

Education Skills Training Program (ESTR)

This program is designed for students with disabilities or learning difficulties who do not yet have the academic qualifications for regular university programs. Students develop specific job and job readiness skills and improve their functional reading, writing, math and oral communication skills. The program is individualized to meet student needs and includes opportunities for work experience in the community. If you know someone who may be interested in this program, please call 250-392-8168 or visit tru.ca/williamslake/programs/developmental

Continuing Studies

Continuing Studies offers a wide variety of programs, workshops and courses for evening and weekend participation. These are designed to meet the demands of today's workplace and the interests of the community. Program brochures are published twice a year and are available at the Continuing Studies office. As class sizes are limited, students are encouraged to register early. Registration is on a first-come, first-serve basis with payment or proof of sponsorship. For more information, please call 250-392-8010 or visit tru.ca/williamslake/cs

Arts and Culture

Courses that may be offered include:

- Introduction to the Artist in You
- Life Drawing
- Photography Essentials

Please visit our website for additional course information.
Williams Lake Continuing Studies - Arts and Culture
tru.ca/williamslake/cs/arts

Business/Office Skills

Courses that may be offered include:

- Bookkeeping Basics
- Building an Online Presence with Lewis Evans
- Cashier Training
- Conflict Resolution in the Workplace
- Financial Statements – Entry Level
- Minute Taking
- Meeting Procedures
- Serving it Right
- Team Building

Computer Courses

Applied Computing Certificate

This program consists of five courses, four required and one elective.

Course fees are tax deductible and students receive a certificate upon successful course completion. Day and evening classes are offered to allow for flexibility.

Required courses that may be offered each semester are:

- The Operating System – Windows 10
- Word Processing – Microsoft Word
- Spreadsheets – Microsoft Excel
- Database Management – Microsoft Access

Electives (choose only one)

- Accounting on the computer—SAGE 50 Accounting
- Accounting on the computer– QuickBooks
- Introduction to Professional Presentations – Microsoft PowerPoint
- Desktop Publishing – Microsoft Publisher

Other computer courses include:

- Computer Basics
- Beginner Web Page Design
- File Management
- Windows 10 Introduction
- Keyboarding to 25 wpm
- Microsoft Office Fast Track
- Microsoft Outlook
- Microsoft Project

Contract Training

Continuing Studies is designed to offer and meet the needs of companies, Indigenous communities or community groups in the Cariboo-Chilcotin Region. Courses also have the potential to be delivered anywhere in the region.

Continuing Studies provides business or agencies with programs that are:

- individualized to your specific request
- based on assessment of employer/employee needs
- held at your location of choice where possible
- timed to fit your schedule

Program costs are developed in consultation with each individual request. Help is also available to determine your specific need and to design an appropriate course or workshop. Our training can cover almost any area of general interest such as personal and professional development, trades, technical skills or other areas of interest.

If you have a particular training need or need information, contact 250-392-8177.

First Aid Courses

Courses that may be offered include:

- WorkSafe BC Occupational First Aid Level 1 / Level 3
- WorkSafe BC -Transportation Endorsement
- Red Cross CPR Basic Life Support (HCP) (includes AED)
- Red Cross Emergency Child Care First Aid & CPR (includes AED)
- Red Cross Standard First Aid

Forestry Courses

Courses that may be offered include:

- ATV Safety Training
- Bear/Cougar Aware
- Chainsaw Safety
- Fire Suppression, Basic and Recertification
- Log Scaling
-

General Interest Courses

Courses that may be offered include:

- Composting
- Drone Filming and Editing
- Drywall
- Electrical systems in the home
- First Timer Home Buyers Workshop
- Hardwood and Laminate Floors
- Photography Essentials
- Plumbing

- Pruning Trees and Shrubs
- Roadside Emergency Preparedness for Youth
  - Writing Workshops

Health and Safety Courses

Courses that may be offered include:

- ATV Safety Training
- Confined Space PLUS
- CSTS
- Fall Protection with Ladder Safety PLUS
- FoodSafe Level 1
- Forklift / Lift Truck Safety Training
- Ground Disturbance
- H2S Alive! Sour Gas Safety Training
- Skidsteer Safety Training
- Traffic Control Certification (Flagging)
- WHMIS

Language Courses

Courses that may be offered during include:

- Chilcotin Language and Culture
- French, Beginner Conversational
- German, Beginner Conversational
- Spanish, Beginner Conversational
- Shuswap Language and Culture

Professional Development Courses

Courses that may be offered include:

- Basic Counselling Skills
- Board Member Training
- Brand New! With Lewis Evans
- Budget Allocation and Monitoring – Entry Level
- Conflict Resolution
- Customer Service Professional
- Financial Policy Development – Entry Level
- Foundational Skills for Helpers
- Management Skills for Supervisors
  - Part 1 Interpersonal Skills
  - Part 2 Team Building Skills
  - Part 3 Administrative Skills
- Medication Management
- Personal Safety Techniques
- Proposal Writing
- Winning Work Experience

Trades and Technology

These are vocational trade related courses and can cover a wide area according to the needs of the community. In most cases they are custom designed or have been developed to prepare students to challenge specific government exams. Some of the courses offered include:

- Air Brake Certification
- Class 1 Driver Training
- Small Engine Repair
- Welding ARC – Level 1

For more information on Continuing Studies trades, technology and agriculture courses, please contact 250-392-8010 or find out more on the web at tru.ca/williamslake/cs/ttech

TRU Regional Centres

Introduction

TRU regional centres offer a wide variety of credit and non-credit courses designed to meet the educational and training needs of communities in the Cariboo, the North Thompson and the upper Fraser Canyon.

For further information contact your local community coordinator:

100 Mile House	rbercowski@tru.ca	250-395-3115
Ashcroft and Cache Creek	kjolly@tru.ca	250-256-4296
Barriere	sross@tru.ca	250-672-9875
Clearwater	sross@tru.ca	250-674-3530
Lillooet and Lytton	kjolly@tru.ca	250-256-4296

100 Mile House

TRU 100 Mile House regional centre, is located in the historic Cariboo region, and is a Training and Education Centre offering continuing studies courses as well as customized training for groups including; Food safe, bookkeeping and various computer courses.

The community coordinator is available to assist individuals or groups with their needs for employee training, employment skills upgrading, personal development or general interest courses. Contact the 100 Mile House staff for more information.

Ashcroft and Cache Creek

TRU Ashcroft and Cache Creek regional centre situated in the Ashcroft First nation belonging to the Nlaka'pmx nation offers courses in Business and Office skills, computers, first aid, forestry, health and safety, and trades and technology. Programming may include academic programs, certificates, trades programs, preparation to industry programs, and first year university degree courses (upon demand).

Local courses and programs are delivered upon demand to help the people of Ashcroft, Cache Creek and region develop the skills and knowledge they need for the job market and further education.

Barriere

The TRU Centre in Barriere is situated in Simpcw Territory has been providing quality education and training to the lower North Thompson Valley for over 20 years. The Centre offers courses and programs to area residents that wish to develop the skills and knowledge required for entering the job market and for furthering their education. Courses offered will depend on community demand and can include Business, Computer, Tourism First Aid, Public Health, Self-Development, Occupational Health and Safety, Trades and Technology and Adult Basic Education.

Clearwater

TRU Clearwater regional centre has a computer lab and training room for face-to-face classes. A wide variety of courses are offered through the centre, including: First Aid, Health and Safety, Trades and Technology, Forestry, Computing and many general interest courses.

Ed2Go and TRU

A wide variety of online courses including courses for college readiness and computer applications are available through a partnership with TRU and Education 2 Go. All the courses are led by expert instructors, many of whom are nationally known authors. Our online courses are affordable, fun, fast, and convenient and geared to the student.

To browse the course catalog, please visit ed2go.com/tru-clearwater.

Other services offered at the centre include: entrance and assessment exams, application forms for financial assistance, calendars, admission applications, information on distance education courses and exam supervision.

Lillooet and Lytton

The TRU Lillooet and Lytton regional centre is situated in the St'át'imc Nation, which includes Bridge River (Xwisten), Pavilion (Ts'kw'aylaxw), Cayoose Creek (Sekw'el'was), Mt. Currie (Lil'wat), Seton Lake (Tsal'alh), Lillooet (T'it'q'et), Fountain (Xaxl'ip), Anderson Lake (N'Quatqua), Douglas (Xa'xtsa), Skatin and Samahquam. Thompson Rivers. The centre offers the Lillooet region an excellent educational environment with a multi-media classroom with capacity for twenty students, state-of-the-art computer lab, and a conference room. The Centre has ITV technology and the ability to connect to TRU courses at other locations. We also service the surrounding St'at'imc communities, Ashcroft, Gold Bridge and Lytton.

The Centre offers courses in Business and Office Skills, Computers, First Aid, Personal Development, Tourism and Trades and Technology. The Computer Certificate helps students become proficient in the computer skills needed to work in an office environment. A wide range of courses are offered in health and safety, such as CPR, OFA level 1-3, FoodSafe and WHIMIS. In our personal development area, we offer general interest courses. Lillooet has expanded its programming to allow students to stay at home while continuing their education. Programming may include academic programs, certificates, trades programs, preparation to industry programs and first-year university degree courses (upon demand).

Course Descriptions

Course Descriptions Overview

Example:

Subject Code

Course Number

Credit(s)

BIOL 3260 3 credits

Weekly hours of contact (lecture, seminar, laboratory)

(L) indicates a lab fee, (P) indicates a practicum

Field Botany (1, 1, 4) (L)

This course is an introduction to flowering plant identification and taxonomy of the flora found within a given region. This field-trip based course emphasizes the descriptive morphology and technical identification of the local flora. Students are required to submit a plant collection of twenty-five specimens.

Prerequisite: BIOL 2280 or BIOL 3430 or permission of the instructor
Required Lab: BIOL 3260L
Required Seminar: BIOL 3260S

Reading a course description

Courses are listed in alphabetic order by TRU course letter code abbreviation and number. Letter codes represent the subject codes (listed below) while numbers represent the academic levels. The first digit indicates the year level at which the course is generally taken for example a 1000 level course is generally taken in first year and a 5000 level course is generally a graduate level course required for Graduate or Masters level programs. Also refer to course numbering and definitions for more detail on how to read a course description.

For courses based on contact hours, the contact hours will be indicated as the number of hours in brackets e.g. (155 hours).

For up-to-date course sections and schedules, please refer to the online course schedule.

ABTS	Applied Business Technology
ACCT	Accounting
ADVG	Adventure Studies
AGSC	Agriculture Science
ANES	Anaesthesiology
ANHD	Animal Health Technology - Distance
ANHT	Animal Health Technology
ANTH	Anthropology
APEC	Applied Economics
APSC	Applied Science
APNR	Applied Natural Resource Science
ARCH	Archaeology
ARET	Architectural and Engineering Technology
ARTS	Arts
ASET	Adult Special Education
ASHS	Applied Studies Health Science
ASTR	Astronomy
ASUR	Applied Sustainable Ranching
AUTO	Automotive
AWCP	Animal Welfare
BBUS	Business
BIOL	Biology
BLAW	Business and Law
BUSN	Business
CARP	Carpentry
CENG	Computer Engineering
CFTL	Centre for Teaching and Learning
CHBI	Chemical Biology
CHEM	Chemistry
CHIN	Chinese
CMNS	Communications and New Media
COAP	Culinary Arts Apprenticeship
COMP	Computing Science
CONS	Construction Craft
CONV	Convention Management
COOK	Culinary Arts
COOP	Co-operative Education
CTMR	Commercial Transport Vehicle Mechanic
CYCA	Child and Youth Care
CYMH	Child and Youth Mental Health
DAAD	Digital Art Design
DRAF	Drafting
EENG	Electrical Engineering
ECED	Early Childhood Education
ECON	Economics
EDAR	Education Action Research
EDCO	Education Communications
EDCP	Education and Career Planning
EDCS	Education Community Support
EDEF	Education Foundations
EDFN	Education First Nations
EDHR	Human Resource Management
EDIE	Education Inclusive Education
EDLL	Education Language and Literacy
EDMT	Management Training
EDPY	Education Psychology
EDTE	Education Trades and Technology
EDUC	Education
ELEI	Industrial Electrician
ELEL	Electrical
ELTE	Electrical Trade Entry
ENGL	English
ENGR	Common Engineering
ENSU	Environmental Sustainability
ENTR	Entrepreneurship
ENVS	Environmental Studies
EPHY	Engineering Physics
ESMN	Economic Sustainable Management
ESAL	English as a Second Language
ESTR	Employment Skills Training
EVNT	Event Management
EXPL	Experiential Learning
FILM	Film
FNCE	Finance
FNLG	First Nations Language
FNST	First Nations
FRAN	Francais
FREN	French
FRST	Forestry
GASF	Gasfitting
GEOG	Geography

GEOL	Geology
GERM	German
GLAZ	Glazier
GLBL	Global Competency
HDMC	Heavy Duty Mechanic
HEAL	Health
HIST	History
HLSC	Health Science
HLTH	Health
HMGT	Hotel Management
HORT	Horticulture
HRMN	Human Resource Management
HUMS	Human Service
IBUS	International Business
IDIS	Interdisciplinary Studies
IEIM	Industrial Electrical Instrument Mechanic
IIME	Industrial Instumentation Mechanic
IMEC	Instumentation Mechanic
INET	Instrumentation Technology
JAPA	Japanese
JOIN	Joinery
JOUR	Jounalism
JUST	Police and Justice Studies
LAWF	Law
LEGA	Legal Office Assistant
MACH	Machinist
MATH	Mathematics
MEAT	Meat Processing
MFAB	Metal Fabricator
MICR	Micobiology
MIST	Management Information Systems
MKTG	Marketing
MLAN	Modern Languages
MLAP	Medical Lab Assistant
MNGT	Management
MPET	Motorcycle Technician
MTST	Mountain Studies
MUSI	Music
NAST	Native Studies
NRSC	Natural Resource Science
NURS	Nursing
OEED	Outdoor and Experiential Education
ORGB	Organizational Behaviour
PHED	Physical Education
PHIL	Philosophy
PHYS	Physics
PLUM	Plumbing
PNUR	Practical Nursing
POLI	Political Science
POWR	Power Engineering
PSYC	Psychology
RCAR	Residential Construction
RESP	Respiratory Therapy
RFCA	Refridgration & AC Mechanic
RTCL	Respiratory Therapy
RTCT	Respiratory Therapy Clinic
SAWF	Saw Filer
SCMN	Supply Chain Management
SENG	Software Engineering
SFPF	Steamfitter/Pipefitter
SINC	Science
SOCI	Sociology
SOCW	Social Work
SOSC	Social Science
SPAN	Spanish
SPEE	Speech and Presentations
SPRT	Sport
SRCL	Service and Community Learning
STAT	Statistics
STSS	Student Development/Study Skills
TECH	Emerging and Disruptive Technologies
TESL	Teaching English as a Second Language
THTR	Theatre
TMGT	Tourism Management
TMPT	Transportation
TOUR	Tourism
TTME	Truck and Transport Mechanic
TROW	Trowel Trades
VISA	Visual Arts
WELD	Welding
WKSK	Work Skills
WTTP	Water Treatment
YMCR	Business
YMSS	Business/Management Skills

Alphabetical Course Listing

ABTS 1100 1 credits
Word Processing 1 (45 hours)
Students learn to apply the basic functions of a word processing program as well as the proper format of documents including letters and memoranda.

Prerequisite: ABTS 1130 and ABTS 1200

ABTS 1110 1 credits
Word Processing 2 (45 hours)
Students are provided additional instruction and practice with letter styles, tables, charts and reports. Advanced features of word processing software such as merge, macros, outlines, and graphics, and styles are also demonstrated and applied.

Prerequisite: ABTS 1100

ABTS 1120 1 credits
Desktop Publishing (40 hours)
Students study desktop publishing functions, including the elements of page design and organizational tools, and the planning, drafting, and production process. They learn to apply word processing and desktop publishing software, as well as integration elements, to produce publications such as letterheads, flyers, brochures, business forms, and newsletters.

Prerequisite: ABTS 1100

ABTS 1130 1 credits
Keyboarding 1 (45 hours)
Students are provided with the necessary techniques to keyboard accurately at a minimum of 25 net word per minute.

Prerequisite: None.

ABTS 1140 1 credits
Keyboarding 2 (35 hours)
Students further develop their keyboarding skills to reach a minimum speed of 50 net words per minute.

Prerequisite: ABTS 1130 or minimum of 25 nwpm

ABTS 1200 1 credits
Introduction to Computers (30 hours)
Students learn to manipulate the Windows environment, use Windows Accessories, and manage files and folders using the computer and Windows Explorer programs. They are also introduced to the Internet, including email basics and advanced features, web browser basics, web navigation, and web research.

Prerequisite: None.

ABTS 1210 1 credits
Spreadsheets 1 (25 hours)
Students develop a working knowledge of Microsoft Excel, by learning how to design, create, modify, and present professional-looking spreadsheets for use in today's workplace. Exercises include using formulas and built-in functions to solve mathematical problems, in addition to illustrating and presenting spreadsheet data in graphic form.

Prerequisites: ABTS 1200

ABTS 1220 1 credits
Spreadsheets 2 (30 hours)
Students acquire a higher-level of proficiency by using Microsoft Excel to create electronic spreadsheets, for advanced applications in today's workplace. Exercises include using advanced functions and formulas, performing calculations, filtering and formatting data, and developing a custom Excel application.

Prerequisite: ABTS 1210

ABTS 1230 1 credits
Database (30 hours)
Students are introduced to the Microsoft Access data management system, while they plan, design, and create a database to meet the information management needs of today's workplace. Terminology, database concepts, and features of relational databases are discussed and demonstrated as students use various commands and features to create tables, queries, forms, and reports. Students enter data, work with calculations, extract information, and generate and print reports.

Prerequisite: ABTS 1200

ABTS 1240 1 credits
Presentation Software (20 hours)
Students apply appropriate design concepts to present data and information in a colourful and well-organized format using PowerPoint Presentation Software. They are instructed in using design templates, applying various attributes and including a variety of objects to create, modify, save, and deliver presentations.

Prerequisite: ABTS 1200

ABTS 1250 1 credits
Integrated Project (10 hours)
Students extend their word processing, spreadsheet, database, desktop publishing, and presentation software knowledge in this capstone course by completing a variety of practical, integrated projects. Decision-making, prioritizing, and other administrative skills are also developed.

Prerequisite: ABTS 1110, ABTS 1120, ABTS 1220, ABTS 1230, ABTS 1240, ABTS 1310 and ABTS 1530

ABTS 1260 1 credits
Website Design and Maintenance (30 hours)
Students acquire the skills needed to complete routine website maintenance and updates. Using a hands-on, practical approach, learners manipulate hypertext markup language (HTML), tags, tables, images, graphics, hyperlinks, special formatting, and forms using text and web authoring programs.

Prerequisite: ABTS 1100

ABTS 1270 1 credits
Outlook (25 hours)
Students are introduced to Microsoft Outlook and receive hands-on training in the use of e-mail for online communications, calendar for managing important dates and appointments, and contacts for the creation and maintenance of an address database.

Prerequisite: ABTS 1200

ABTS 1300 2 credits
Business English (65 hours)
Students focus on the correct English usage in a business environment, and are provided a comprehensive review of grammar, punctuation, and style, as well as business spelling and vocabulary development. The course materials are presented in small, easily manageable learning segments.

Prerequisite: None.

ABTS 1310 2 credits
Business Communications (50 hours)
Students learn how to plan, organize, and correctly write effective "reader friendly" business documents appropriate for use in today's global business environment. Students write business letters, memos, reports, and electronic messages.

Prerequisite: ABTS 1100 and ABTS 1300

ABTS 1410 2 credits
Computerized Accounting (69 hours)
Students are introduced to the integrated computerized accounting system using Simply Accounting for Windows. Upon completion, students are able to establish company records; maintain daily transactions using the general ledger, accounts payable, accounts receivable, inventory, and payroll features; and create financial statements.

Prerequisite: ABTS 1200 and ABTS 1430

Corequisite: ABTS 1440

ABTS 1430 1 credits
Accounting 1 (45 hours)
Students are introduced to manual accounting, with an emphasis on fundamental accounting principles and their application in day-to-day business situations. This course is based on a service business organized as a sole proprietorship. Students practice basic bookkeeping and accounting skills including double-entry general journal entries, posting to the general ledger, preparing a trial balance, recording adjustments in a ten-column worksheet, producing period-end financial statements, closing the temporary accounts, maintaining petty cash, and preparing bank reconciliations.

Prerequisite: None.

ABTS 1440 2 credits
Accounting 2 (50 hours)
Students are exposed to common accounting systems including sales, purchases, federal and provincial taxes, merchandise inventory, payroll, and annual reporting of remittances. They also introduced to subsidiary ledgers, specialized journals, combined journals, year-end procedures and worksheets. Financial statements are prepared in detail, including a classified balance sheet and an income statement for a merchandising business.

Prerequisite: ABTS 1430

ABTS 1450
Business Math and Calculators - Online Only (45 hours)
Following current trends in office technology, students are instructed in the touch method of calculator use, and common calculator features. An emphasis is placed on business problem-solving.

Prerequisite: ABTS 1550

ABTS 1500 1 credits
Human Relations (30 hours)
Students concentrate on developing the personal and professional development skills required in today's workplace. These skills include self-examination and assessment, development of effective communication skills, interpersonal skills, client relations, teamwork, problem solving, and an understanding of business ethics.

Prerequisite: None.

ABTS 1510 1 credits
Job Search (20 hours)
Students are provided with techniques to develop successful job search strategies for today's competitive and changing job market. Topics include self-assessment, employability skill testing, job search strategies and research, using the Internet for job search and career planning, networking, resumes, employment-related communications, application forms, portfolios, and interviews.

Prerequisite: ABTS 1300, ABTS 1100

ABTS 1520 1 credits
Practicum (40 hours)
Students are provided with the opportunity to apply their knowledge and skills to meet the expectations of an employer in a real work situation during a 2-week practicum. They observe and learn daily office routines, and assist the host employer by performing tasks as required.

Prerequisite: Completion of all other courses in the Administrative Assistance Certificate

ABTS 1530 1 credits
Administrative Procedures (40 hours)
Students master essential organizational skills and develop efficient office practices in preparation for entry into the contemporary office. They acquire the ability to communicate effectively, think critically, apply problem-solving skills, and work effectively with other members of the office team. The rapid pace of change demands that office workers have the ability to develop new skills and understand new processes as jobs evolve.

Prerequisite: ABTS 1100 and ABTS 1300

ABTS 1540
Records Management - Online Only (35 hours)
The amount of information created and used in an office environment has increased significantly in recent years. Records, which contain all of the daily information necessary to the operation of any business, need to be managed effectively and efficiently. Today, maintaining the integrity of the records system means that all office workers need to be aware of the importance of correct creation, storage, use, retrieval, protection, control, and disposition of records. Technology continues to change the role played by today's office worker. This course provides students with the knowledge, skills, and abilities to face these challenges and new responsibilities in dealing with both manual and electronic files.

Prerequisite: ABTS 1550 and ABTS 1100

ABTS 1550
Online Learner Success - Online Only (15 hours)
Online Learner Success (OLS) provides online learners with a working knowledge of the program called Desire 2 Learn (D2L). Assignments or activities in the course have been designed to demonstrate the use of various tools in the D2L program.

Prerequisite: None.

ACCT 1000 3 credits
Financial Accounting (3,0,0)
Students develop a basic understanding of financial accounting, which involves analyzing and recording a variety of financial transactions and preparing and evaluating financial reports. Topics financial statements; accounting events and entries; accounting adjustments; internal control and cash; accounts receivable; merchandising and inventory; long-term assets, liabilities; statement of cash flows; and financial statement analysis.

Prerequisite: Admission to the Diploma in Horticulture and Management, Tourism programs, Adventure Studies programs

Note: Students cannot receive credit for more than one of ACCT 1000, ACCT 1211, ACCT 1221, ACCT 2210, ACCT 2211, ACCT 1030, ACCT 1210, ACCT 1220, BBUS 2210 or BBUS 2211

ACCT 2210 3 credits
Financial Accounting (3,0,0)
Students develop the skills necessary to prepare and analyze the financial statements of a public corporation. Topics include the conceptual framework; accounting standards; the accounting cycle; financial statements; internal control, cash and bank reconciliations; short-term investments and receivables; inventory; long-term assets including intangibles; liabilities including bonds payable; shareholders' equity, dividends, and share repurchases; comprehensive income and the statement of shareholders' equity; statement of cash flows; and financial statement analysis.

Prerequisite: English 12/English 12 First Peoples with a minimum of 73% or equivalent

Note: Students cannot receive credit for more than one of ACCT 1000, ACCT 1030, ACCT 1210/1220, ACCT 1211/1221, ACCT 2211, BBUS 2210 or BBUS 2211

ACCT 2250 3 credits
Management Accounting (3,0,0)
Students develop the skills necessary to collect, analyze, and communicate quantitative and non-quantitative information to assist management in making more effective planning and control decisions. Topics include the role of managerial accounting; basic cost management concepts; job, process, hybrid and activity-based costing; cost behaviour and estimation; cost-volume-profit analysis; profit planning and activity-based budgeting; standard costing, flexible budgeting and variance analysis; cost management tools including the balanced scorecard, benchmarking and reengineering; and relevant costs for decision making such as make or buy, special orders, joint products and outsourcing.

Prerequisite: ACCT 2210 or equivalent (minimum C-grade); ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210 or equivalent (minimum C-grade)

ACCT 2280 3 credits
Accounting Software Systems (3,0,0)
Students learn to maintain the financial records of a small business using Sage 50 accounting and business management software. It enables detailed tracking, reporting and analysis of business transactions. Topics include general ledger; accounts payable; accounts receivable; payables and receivables setup; payroll journal and setup; inventory transactions; orders, quotes and deposits; currency and remittances; reconciliations and deposits; and comprehensive setup.

Prerequisite: ACCT 2210 (minimum C-); ENGL 1100, ENGL 1110, ENGL 1120, ENGL 1140 or ENGL 1210 (minimum C-); or equivalent

Note: Students cannot receive credit for more than one of ACCT 2280, ACCT 2281, ACCT 1920 or ACCT 1921

ACCT 3200 3 credits
Intermediate Financial Accounting 1 (3,0,0)
Students learn to prepare the income statement, statement of retained earnings, and asset side of the statement of financial position. Topics include the Canadian reporting environment; the conceptual framework; the income statement including irregular items and comprehensive income; overview of the statement of financial position and statement of cash flows; revenue recognition; cash and receivables; inventory; long-term and short-term investments; property plant and equipment including depreciation, impairment, and disposition; and intangible assets including impairment and goodwill. Instruction is based on International Financial Reporting Standards.

Prerequisite: ACCT 1000 with a min B- or ACCT 1211 with a min B- and ACCT 1221 with a min B- or ACCT 2210 with a min B- or equivalent

CMNS 1290 (minimum C-); or equivalent

Note: Students cannot receive credit for more than one of ACCT 3200, ACCT 3201, or BBUS 3201

ACCT 3210 3 credits
Intermediate Financial Accounting 2 (3,0,0)
Building on ACCT 3200: Intermediate Financial Accounting 1, students learn to prepare the current liabilities, long-term liabilities, and shareholders' equity sections of the statement of financial position and the cash flow statement. Topics include current liabilities and contingencies; long-term liabilities; advanced shareholders' equity; complex financial instruments and earnings per share; income taxes; pensions and other employee future benefits; leases; accounting changes and error analysis; statement of cash flows; and other measurement and disclosure issues. Instruction is based on International Financial Reporting Standards.

Prerequisite: ACCT 3200 (minimum C-) or equivalent

Note: Students cannot receive credit for more than one of ACCT 3210, ACCT 3211, BBUS 3210 or BBUS 3211

ACCT 3220 3 credits

Income Taxation 1 (3,0,0)

Students examine the conceptual structure of the Income Tax Act and the application of its rules to practical situations.

Topics include an introduction to federal taxation; procedures and administration; income or loss from office, employment, business, or property; capital cost allowances and cumulative eligible capital; capital gains and losses; other income and deductions; and calculation of taxable income and tax payable for individuals.

Prerequisite: ACCT 1000 or ACCT 1211 with a min B- and ACCT 1221 or ACCT 2210 (minimum B-) or equivalent; and CMNS 1290 (minimum C-); or equivalent

Note: Students cannot receive credit for more than one of ACCT 3220, ACCT 3221, ACCT 3260, BBUS 3220, BBUS 3221 or BBUS 3260

ACCT 3230 3 credits

Income Taxation 2 (3,0,0)

Building on on ACCT 3220: Income Taxation 1, students examine the taxation of corporations, corporate distributions, and transactions between corporations and their shareholders. Topics include an in-depth coverage of taxable capital gains; deferred income plans; and the taxation of corporate entities, partnerships, trusts and corporate reorganizations.

Prerequisite: ACCT 3220 or ACCT 3260 or equivalent (minimum C-)

Note: Students cannot receive credit for more than one of ACCT 3230, ACCT 3231, BBUS 3230, or BBUS 3231

ACCT 3250 3 credits

Intermediate Management Accounting (3,0,0)

Building on ACCT 2250: Management Accounting, students further develop their ability to use quantitative and non-quantitative information to make effective planning and control decisions. Topics include an in-depth study of the balanced scorecard and profitability analysis; interdepartmental cost allocation; cost allocation for joint products and byproducts; revenue and customer profitability analysis; process costing including spoilage, rework and scrap; cost management and the theory of constraints; capital budgeting; and transfer pricing and multinational management control systems.

Prerequisite: ACCT 2250 or equivalent with a minimum B- and CMNS 1290 (minimum C-) or equivalent

Note: Students cannot receive credit for more than one of ACCT 3250, ACCT 3251, BBUS 3250 or BBUS 3251

ACCT 3260 3 credits

Taxation for Decision Making (3,0,0)

Students analyze the fundamental framework of the Canadian Income Taxation system and its effect on business decision making and financial planning. This course adopts a decision approach to taxation and focuses on the needs of non-accountants. Topics include an introduction to federal taxation; procedures and administration; income or loss from office, employment, business, or property; capital cost allowances and cumulative eligible capital; capital gains and losses; other income and deductions; and calculation of taxable income and tax payable for individuals.

Prerequisite: ACCT 2210 (minimum C-); CMNS 1290 (minimum C-); or equivalent

Note: Students cannot receive credit for more than one of ACCT 3260, ACCT 3220, ACCT 3221, BBUS 3260 or BBUS 3221

ACCT 4200 3 credits

Advanced Financial Accounting (3,0,0)

Students examine a number of complex issues in advanced financial reporting. Topics include financial accounting standards, temporary and long-term investments in both debt and equity securities, investments with significant influence, an in-depth study of business combinations, joint ventures, foreign currency transactions, fair value and cash flow hedges, consolidation of foreign operations, not-for-profit organizations, and public sector reporting objectives and issues.

Prerequisite: ACCT 3210 (minimum C-), or equivalent

Note: Students cannot receive credit for more than one of ACCT 4200, ACCT 4201, BBUS 4200 or BBUS 4201

ACCT 4230 3 credits

Assurance (3,0,0)

Students will learn to gather and evaluate audit evidence related to company financial statements. The goal is to provide assurance that the financial statements fairly present the financial performance and position of the organization being audited. Risk assessment techniques available to auditors and possible responses to those risks will be examined. Topics include an introduction to auditing and the public accounting profession; the audit process; professional relationships and legal liability; materiality and risk; audit evidence, evidence mix and audit strategy; the audit of internal controls, control risk and corporate governance; audit sampling; application of the audit process and auditor reporting.

Prerequisite: ACCT 3210 (minimum C-) or equivalent

Note: Students cannot receive credit for more than one of ACCT 4230, ACCT 4231, BBUS 4230 or BBUS 4231

ACCT 4250 3 credits

Advanced Management Accounting (3,0,0)

Building on ACCT 3250: Intermediate Management Accounting, students explore the integrative and interdisciplinary role of management accounting and its contribution to the strategic management process and the provision of quantitative and non-quantitative information for planning, control, and decision making. Topics include management control systems; results controls, action, personnel and cultural controls; control system tightness; control system cost; designing and evaluating management control systems; financial responsibility centers including transfer pricing; planning, and budgeting; incentive systems; financial performance measures; the myopia problem; uncontrollable factors; corporate governance; and ethical issues.

Prerequisite: ACCT 3250 (minimum C-) or equivalent

Note: Students cannot receive credit for more than one of ACCT 4250, ACCT 4251, BBUS 4250 or BBUS 4251

ACCT 4270 3 credits

Accounting Information Systems (3,0,0)

Students examine information systems and their applications in accounting. Topics include: an overview of accounting information systems; transaction processing; enterprise resource planning systems; system documentation techniques; relational databases and data integrity; designing systems to prevent fraud, attacks and abuse; accounting information system controls; privacy and confidentiality controls; processing integrity and availability controls; auditing accounting information systems; and accounting information systems applications.

Prerequisite: MIST 2610 or equivalent with a minimum C-

Corequisite: ACCT 4230 or equivalent with a minimum C-

Note: Students cannot get credit for both ACCT 4270 and MIST 4610

ADVG 1010 3 credits

The Adventure Tourism Industry (3,0,0)

This course offers an overview of the tourism industry and the adventure tourism sector. Upon completion of this course, students have a comprehensive understanding of the origins of tourism, the industry today, land management issues, future considerations, the guide's role, career paths, literature review, terminology, and definitions.

Prerequisite: Students must be enrolled in an Adventure Studies department supported program, such as a Bachelor of Tourism Management Degree, Adventure Guide Diploma, Adventure Management Diploma, Adventure Sport Certificate, Canadian Mountain and Ski Guide Program, or with permission of the instructor.

ADVG 1020 3 credits

Wilderness Travel (2,0,0,80F)

This course consists of a classroom theory component and two field modules in the fall term. Course content includes theoretical and practical aspects of wilderness travel and is an introduction to the organization of wilderness trips. Theory relates to clothing and equipment, navigation, environmental concerns, travel techniques, route plans and trip planning and field modules that includes navigation, route selection, group management, pacing, minimum impact camping and hazard awareness. This course is the prerequisite for most other introductory level ADVG courses.

Prerequisite: Students must be enrolled in an Adventure Studies Department supported program. For example, Bachelor of Tourism Management Degree, Adventure Guide Diploma, Adventure Management Diploma, Adventure Sport Certificate, Canadian Mountain and Ski Guide Program, or with permission of the instructor

ADVG 1050 3 credits

Guiding Leadership 1 (3,0,0)

This course explores the role of leadership as it applies to guiding in the adventure tourism industry. Topics include philosophic approach, qualifications profile, group dynamics, communication skills, leadership styles, problem solving, and decision-making.

Prerequisite: Students must be enrolled in an Adventure Studies Department supported program. For example, Bachelor of Tourism Management Degree, Adventure Guide Diploma, Adventure Management Diploma, Adventure Sport Certificate, Canadian Mountain and Ski Guide Program, or with permission of the instructor

ADVG 1110 3 credits

Emergency Situation, Search and Rescue Management (3,0,0)

This course explores the guide's role in emergency situations and search and rescue management. Course content includes identifying hazards, hazard avoidance, managing hazards, emergency situation management, developing response plans, and the BC Provincial Emergency Program Search and Rescue Management Course.

Prerequisite: ADVG 1010 or permission of the instructor

ADVG 1190 1 credits

Standard Interpretive Guide Course (16 hours)

This is the standard interpretative guide course offered by the Mountain Parks Heritage Interpretation Association (MPHIA). It is designed for mountain professionals who guide in the mountain national parks of Eastern British Columbia or Western Alberta.

Prerequisite: Students must be enrolled in an Adventure Studies Department supported program. For example, Bachelor of Tourism Management Degree, Adventure Guide Diploma, Adventure Management Diploma, Adventure Sport Certificate, Canadian Mountain and Ski Guide Program, or with permission of the instructor.

ADVG 1216 2 credits

Trail Crew (30 hours)

This course focuses on trail construction and maintenance, chain saw operation, and small engine maintenance.

Prerequisite: Participants must be enrolled in an Adventure Studies Department supported program or have permission of the instructor

ADVG 1276 3 credits

Business and Marketing for Adventure Operations (3,0,0)

This course focuses on business and marketing aspects of an adventure operation. Course participants will investigate corporate structures, budgeting, creating business growth, land access methods, business income and tax, and business management, along with marketing planning, promotion, advertising, and identification of preferred media strategies. Case studies specific to adventure sports will be used.

Prerequisite: Participants must be enrolled in an Adventure Studies Department supported program or have permission of the instructor

ADVG 1302 2 credits

Outdoor Travel Skills (30 hours)

This course is an introduction to the theoretical and practical aspects of wilderness travel and is an introduction to the organization of wilderness trips. Course content includes theory related to clothing and equipment selection, basic navigation concepts, environmental issues, route plans and trip planning. This course includes a field trip to practice the organization of a successful wilderness outing including navigation, minimum impact camping and hazard awareness.

Prerequisite: None.

ADVG 1330 2 credits

Backpacking (30 hours)

This course is an introduction to multi-day wilderness travel both on and off trail. Personal and group preparation and hiking skills are foundational for a successful wilderness travel outing. Course content includes introductory equipment selection for multi-day trips, food selection and preparation, route selection, pre-trip planning, introductory group management, and minimum impact travel and camping best practices. This course includes a multi-day wilderness excursion.

Prerequisite: None.

ADVG 1340 2 credits

Introduction to Paddle Sports (30 hours)

This course is an introduction to the theoretical and practical aspects of paddle sports including: river kayaking, flat-water canoeing, kayak touring and sea kayaking. Course content includes theory related to equipment selection, basic stokes and maneuvers, self and assisted rescue, paddling communication and hazard recognition and safety. This course includes a field trip to practice the organization of a successful paddling outing.

Prerequisite: None.

ADVG 1350 2 credits

Canoe Skills (30 hours)

This course is an introduction to flatwater canoe skills and serves as a foundation upon which further canoe skills may be built. Topics include an introduction and history of the canoe, canoe parts, paddle parts, basic canoe strokes and maneuvers, basic canoe rescue, and planning for a day-tripping canoe outing. This course follows the Paddle Canada 'Canoe Basics' or 'Introductory Lake Skills' curriculum.

Prerequisite: None.

ADVG 1360 2 credits

Introduction to Kayak Touring (30 hours)

This course is an introduction to the theoretical and practical aspects of lake kayak touring. Course content includes theory related to equipment selection, equipment packing, basic stokes and maneuvers, self and assisted rescue, paddling communication and hazard recognition and safety. This course includes a field trip to practice the organization of a successful paddling outing.

Prerequisite: None.

ADVG 1362 2 credits

Introduction to Sea Kayaking (30 hours)

This course is an introduction to the theoretical and practical aspects of Sea kayaking. Course content includes theory related to kayak equipment selection, basic stokes and maneuvers, self and assisted rescue, paddling communication, hazard recognition and safety. This course includes a field trip to practice the organization of a successful sea kayaking paddling outing.

Prerequisite: None.

ADVG 1370 2 credits

Whitwater Kayaking Skills 1 (30 hours)

This course is an introduction to the theoretical and practical aspects of whitewater kayaking. This course will take place in a pool, flat-water and moving water environments. Course content includes theory related to equipment selection, basic stokes and maneuvers, self and assisted rescue, paddling communication and hazard recognition and safety. This course includes a field trip to practice the organization of a successful moving water paddling outing.

Prerequisite: None.

ADVG 1372 2 credits

Whitewater Kayaking Skills 2 (30 hours)

This course builds on the theoretical and practical skills and knowledge developed in Whitewater Kayak Skills 1. This course will take place in moving water and class 2 river environments. Course content includes: selecting thermal protections, personal protective equipment and kayak equipment for the river, intermediate stokes and maneuvers, developing a whitewater roll and more advanced assisted rescue techniques, scouting and navigating basic whitewater, hazard recognition and safety. This course includes a field trip to practice the organization of a successful class 2 paddling outing.

Prerequisite: ADVG 1370

ADVG 1380 2 credits

Rock Climbing Skills 1 (30 hours)

This course is an introduction to the theoretical and practical aspects of rock climbing. Course content includes theory related to equipment selection, basic movement on rock skills, introduction to knots and hitches, climbing communication and hazard recognition and safety. This course includes a field trip to practice the organization of a successful climbing outing. This course is the prerequisite for other ADVG climbing skills courses.

Prerequisite: None.

ADVG 1400 2 credits

Avalanche Safety Training 1 (30 hours)

This course is an introduction to factors affecting snow stability and avalanche phenomena and provides an entry-level decision making framework for travelers in a mountain winter environment. This includes an introduction to the Avalanche Terrain Exposure Scale, use of the Avaluator as a decision making tool, and practice with rescue equipment in a companion rescue scenario. This course is the prerequisite for ADVG 1410 Ski Touring Skills 1.

ADVG 1410 2 credits

Ski Touring Skills 1 (30 hours)

This course is an introduction to ski touring and serves as a foundation upon which further ski touring skills may be built. Topics include ski touring equipment selection, clothing and thermo-regulation in a winter environment, basic terrain recognition, an introduction to group management, and basic snow shelter concepts, as well as an application of concepts and skills delivered in the ADVG 1400 Avalanche Safety Training course. This course includes a field trip to practice the organization of a successful winter ski touring outing.

Prerequisite: ADVG1400

ADVG 1510 2 credits

Flatwater Canoe Instructor (60F hours)

This is the CRCA (Canadian Recreational Canoeing Association) Flatwater Instructor certification, and it prepares students for the Moving Water Instructor and Trip Leader courses. The Flatwater Instructor course is to provide a national certification of competence in the instruction and administration of the CRCA flatwater level courses.

Prerequisite: ADVG 1020

ADVG 1530 2 credits
Kayak 1 (60F hours)
This is a flatwater and river kayaking skills course in which students explore kayak construction, equipment, rolls, strokes, and rescues.

Prerequisite: ADVG 1020

ADVG 1540 2 credits
Glacier Skills (60 Hours)
Students participate in the Glacier Skills course in preparation for the Hard Ice Level 1 Guiding Certification. This course takes place on outlet glaciers in the summer under supervision by standards set by the Association of Icelandic Mountain Guides (AIMG). Students will show adequate performance in the glacier environment to guide under supervision on outlet glaciers with no snow cover in Iceland.

Prerequisite: None.

ADVG 1550 1 credits
Skiing 1 (60 hours)
This course is an introduction to downhill ski techniques and equipment. Students participate on alpine skiing equipment. The purpose is to develop strong downhill skiing techniques on groomed and variable snow conditions, and to progress towards instructor level abilities and/or backcountry skiing. CSIA teaching progression and techniques are utilized.

Prerequisite/Corequisite: ADVG 1020 or permission of the instructor

ADVG 1560 2 credits
Ski Tour 1 (70 hours)
Students are introduced to backcountry ski touring on mountaineering or Nordic equipment. Course content includes backcountry ski equipment, accessory equipment, skiing back-country terrain, route finding, hazard evaluation, and winter camping skills.

Prerequisite: ADVG 1020 and one of ADVG 1550 or ADVG 2450 or ADVG 2550

ADVG 1570 2 credits
Rock Climbing 1 (50 hours)
Students participate in a rock climbing personal skill development course designed to build a foundation in industry standard systems. Activities include gym climbing, outdoor top roping and sport climbing. Course content emphasizes hazard management, communication skills, technical movement skills, rope & equipment handling, knots and systems, fixed protection use, belay systems, anchors, and sport leading strategies. By the end of the course, students lead climb on bolted routes. Upon completion of the course, the student may be recommended for theAssociation of Canadian Mountain Guides (ACMG) Climbing gym instructor course and may participate in more advanced TRU rock climbing courses.

Prerequisite: ADVG 1020.

ADVG 1580 2 credits
Mountaineering 1 (80F hours)
This is a mountaineering skill development course which includes mountaineering equipment, mountain safety, belays, anchors, mountaineering techniques, and crevasse rescue.

Prerequisite: ADVG 1020

ADVG 1590 2 credits
Avalanche Safety for Ski Operations Level 1 (70F hours)
This is the Canadian Avalanche Association Level 1 course which includes avalanche phenomena, terrain analysis, the mountain snowpack, stability and hazard evaluation, data collection, and avalanche rescue.

Prerequisite: ADVG 1020 and ADVG 1560 or permission of the instructor

ADVG 1600 2 credits
SRT 3: Swiftwater Rescue Technician (60 hours)
Students develop a comprehensive understanding of river rescue instruction as it pertains to canoes, kayaks, and rafts, hypothermia, and drowning. Students are able to perform rescues in moving water, create improvised rescue and rope system rescues, and participate in numerous rescue simulations.

Prerequisite: ADVG 1530

ADVG 1900 2 credits
Expedition 1 (80F hours)
Students participate in a self-directed expedition planned in conjunction with program instructors, focusing on areas where skill development is desired. This trip may be international in nature.

Prerequisite: Entry to the Adventure Guide Diploma and ADVG 1020

ADVG 2010 3 credits
The Natural Environment (3,0,0)
This course studies the natural resource base upon which the adventure tourism industry depends; these include geographic features, mountain geomorphology, geology, fluviology, meteorology, ecology, flora and fauna species identification, nature interpretation and current environmental concerns.

Prerequisite: Students must be enrolled in an Adventure Studies Department supported program. For example, Bachelor of Tourism Management Degree, Adventure Guide Diploma, Adventure Management Diploma, Adventure Sport Certificate, Canadian Mountain and Ski Guide Program, or with permission of the instructor.

ADVG 2030 3 credits
Advanced Wilderness First Aid (80 hours)
This is an advanced wilderness emergency response course that provides detailed instruction in wilderness emergency response and pre-hospital care. Course content includes situation assessment, anatomy, physiology, airway management, respiratory emergencies, cardiac arrest, circulation emergencies, burns, eyes, ears, nose, and throat.

Prerequisite: Students must be enrolled in an Adventure Studies Department supported program. For example, Bachelor of Tourism Management Degree, Adventure Guide Diploma, Adventure Management Diploma, Adventure Sport Certificate, Canadian Mountain and Ski Guide Program, or with permission of the instructor.

ADVG 2040 3 credits
The Business of Adventure Tourism (45 hours)
An in-depth study of adventure tourism as a business. The aspects of corporate structures, administration, budgeting, marketing, creating business growth, land access methods, business income and tac, issues and trends, business plans, and business management will be studied.

Prerequisite: Students must be enrolled in an Adventure Studies Department supported program. For example, Bachelor of Tourism Management Degree, Adventure Guide Diploma, Adventure Management Diploma, Adventure Sport Certificate, Canadian Mountain and Ski Guide Program, or with permission of the instructor.

ADVG 2060 3 credits
Legal Liability and Risk Management (45 hours)
An in-depth look at the legal issues surrounding liability and risk management in adventure tourism. Includes the Canadian legal system, owner liability, guide liability, risk management and mitigation, insurance, legal releases and the development of risk management plans.

Prerequisite: Students must be enrolled in an Adventure Studies Department supported program. For example, Bachelor of Tourism Management Degree, Adventure Guide Diploma, Adventure Management Diploma, Adventure Sport Certificate, Canadian Mountain and Ski Guide Program, or with permission of the instructor.

ADVG 2070 2 credits
Ocean Surfing 1 (60F hours)
This is a five day ocean surfing development course intended to introduce ocean surfing skills, techniques and instruction in moderate ocean swell conditions.

Prerequisite/Corequisite: ADVG 1020 or permission of the instructor

ADVG 2080 1 credits
Canadian Association of Snowboarding Instructors (CASI) Snowboard Instructor Level 1 (30 hours)
This is an entry-level program designed to introduce prospective snowboard instructors to the basic teaching and riding skills used at the beginner and novice levels of riding.

Prerequisite: Students must be able to demonstrate comfortable and safe riding skills on intermediate terrain

ADVG 2200 1 credits
Climbing Gym Instructor Level 1 (30 hours)
This is an Association of Canadian Mountain Guides certification course. A Climbing Gym Instructor Level 1 can instruct sport climbing based top roping, and basic training and movement skills on climbing structures. The certification does not cover the skills required to instruct protection placement, anchor threads, rappelling, hazard management or other techniques required to safely climb outdoors.

Prerequisite: Students must be enrolled in an Adventure Studies Department supported program. For example, Bachelor of Tourism Management Degree, Adventure Guide Diploma, Adventure Management Diploma, Adventure Sport Certificate, Canadian Mountain and Ski Guide Program, or with permission of the instructor, and current Standard First Aid certification (16 hrs).

ADVG 2210 1 credits
Climbing Gym Instructor Level 2 (30 hours)
This is an Association of Canadian Mountain Guides certification course. A Climbing Gym Instructor Level 2 can instruct sport climbing based leading and intermediate movement courses on climbing structures.

The certification does not cover the skills required to instruct protection placement, anchor threads, rappelling, hazard management or other techniques required to safely climb outdoors.

Prerequisite: ADVG 2200

ADVG 2220 1 credits

Climbing Gym Instructor Level 3 (30 hours)

This is an Association of Canadian Mountain Guides certification course. A Climbing Gym Instructor Level 3 can instruct sport climbing based leading and advanced movement courses on climbing structures. In addition, the Level 3 Instructor develops instructional courses and supervises larger climbing programs and instructional staff. The certification does not cover the skills required to instruct protection placement, anchor threads, rappelling, hazard management or other techniques required to safely climb outdoors.

Prerequisite: ADVG 2210

ADVG 2230 2 credits

Guide Training Skiing - Mechanized (70 hours)

This is the first of two training courses that prepare candidates for the Assistant Ski Guide exam. The course focuses on many of the technical skills required to safely lead ski groups in backcountry mechanized ski operations. Topics covered may include operational decision-making, downhill guiding, record keeping, rope systems (crevasse rescues, cliff rescue), transceiver searches, and snow observation skills. The course includes skills screening, in particular in the area of ski technique.

Prerequisite: ADVG 2030 and ADVG 1590

ADVG 2240 2 credits

Top Rope Climbing Instructor (60F hours)

This is a Top Rope Climbing Instructor certification course for those who conduct top rope rock climbing and rappelling programs on simple and easily accessed outdoor terrain. The certification does not include multi-pitch rock climbing or the placement of protection for anchoring or leading.

Prerequisite: ADVG 2200 or permission of the Program Coordinator

ADVG 2250 2 credits

Guide Training Skiing - Alpine Skills (60 Hours)

This is the first of three training courses that prepare students for the Apprentice Ski Guide exam. The course focuses on technical rope and rescue skills required to safely lead clients in backcountry ski operations. Topics include short roping, belaying, rope ascending, lowers, rappelling, snow and ice anchors, crevasse rescue, crampon use and glacier travel.

Prerequisite: ADVG 1590 and ADVG 2030

ADVG 2260 2 credits

Ocean Surf 2 (60F hours)

Students focus on the development of intermediate surf skills, including advanced paddling skills, enhanced wave judgment, proper positioning in the line up, and intermediate wave riding techniques. Additionally, students develop a deeper understanding about the effects wind, weather and swell have on surf conditions.

Prerequisite: ADVG 2640 and ADVG 2070

ADVG 2270 3 credits

Ocean Surf 3: Surf Instructor (100F hours)

Students focus on developing their intermediate surfing skills, surf rescue, and the required surf instructional skills leading to Life Saving British Columbia's Bronze Cross and instructor qualifications, recognized by Parks Canada.

Prerequisite: ADVG 2260

ADVG 2280 2 credits

Alpine Ski Instructor Level 3 (60 hours)

This course is the Level 3 Ski Instructor Certification of the Canadian Ski Instructors' Alliance. This course provides training in alpine ski instruction and will provide opportunities for professional ski improvement.

Prerequisite: ADVG 2330

ADVG 2290 2 credits

Snowboard Instructor Level 2 (60 hours)

This course is the Level 2 Snowboard Instructor Certification of the Canadian Association of Snowboard Instructors. This course provides professional training in snowboard instruction and will provide opportunity for professional snowboarding improvement.

Prerequisite: Canadian Association of Snowboard Instructors (CASI) Level 1

ADVG 2330 2 credits

Alpine Ski Instructor 2 (60 hours)

The Level 2 Ski Instructor certification represents the second step for Canadian alpine ski instructors. It is continued on from the CSIA Level 1 course, but deals more in depth into modern teaching methods of outdoor sport, more in depth knowledge of ski technique, discussions on customer service, as well as teaching the growing population of seniors. This CSIA Level 2 course will provide certification to those candidates who are successful in achieving the required performance standard. This course provides professional training in alpine ski instruction, and ski technique.

Prerequisite: ADVG 2450

ADVG 2430 3 credits

Assistant Hiking Guide (90F hours)

This certification course evaluates candidates according to standards established by the Association of Canadian Mountain Guides. This course is intended for guides who lead clients on day-hikes and multi-day backpacking trips, on established trails and off-trail in wilderness operations. Course content includes navigation, route plans, group management, helicopter use, camping, interpretation, client and hazard management. Assistant hiking guides work with supervision from a hiking, alpine or mountain guide.

Prerequisite: ADVG 2030 (Canadian Mountain and Ski Guide Diploma); ADVG 1020 and ADVG 2030 (all other programs)

ADVG 2440 2 credits

Hiking Guide (60 hours)

This certification course evaluates candidates according to standards established by the Association of Canadian Mountain Guides. This course is intended for guides who lead clients on day-hikes and multi-day backpacking trips, in all types of hiking terrain, and without supervision. Candidates are expected to demonstrate advanced skills in route finding, advanced navigation, hazard management, camp management, trip planning leadership, environmental ethics, and client care in a multi-day scenario.

Prerequisite: ADVG 2430

ADVG 2450 1 credits

Alpine Ski Instructor 1 (30 hours)

This course represents the first level of instruction for Canadian alpine ski instructors. This CSIA (Canadian Ski Instructor Alliance) Level 1 course offers certification to those candidates who are successful in achieving the required performance standard. Students are provided professional training in alpine ski instruction, in addition to having an opportunity for personal ski improvement.

Prerequisite: Students must be enrolled in an Adventure Studies Department supported program, or with permission of the instructor.

ADVG 2460 2 credits

Swiftwater Rope Rescue (60 hours)

Students gain a comprehensive understanding of rope systems as applied to the moving water environment. The course is structured parallel to the Provincial Emergency Program Rope Rescue Team Member course, however, it is intended for participants from paddling backgrounds, and is required prior to entry into the Swiftwater Rescue Instructor course. Students become proficient at rope handling skills and principles and communication on the river. Students set up rescue anchors, belays for multi-person loads, lowering and raising systems, patient and stretcher ties and attachments, recovering vessels, and highline systems and telfers. Students alos participate in numerous rescue simulations.

Prerequisite: ADVG 1570, ADVG 2730, ADVG 1110 and ADVG 2030

ADVG 2470 2 credits

Freestyle Kayaking (50 hours)

Students develop whitewater kayak playboating skills and practice the latest freestyle maneuvers and techniques developed in paddle sports.

Prerequisite: ADVG 2490 and ADVG 1600 or the instructor's permission

ADVG 2490 2 credits

Kayak 2 (60 hours)

This white water skill development course is intended to prepare students for the Level 1 Flatwater instructor course through Canoe Kayak British Columbia.

Prerequisite: ADVG 1530 or instructor's permission

ADVG 2500 2 credits

Traditional Climbing (50 Hours)

This is a rock climbing personal skill development course. Students will build skills based on industry standard systems. The students' primary goal of the course will be to develop their traditional climbing skills. Students will practice and demonstrate the placement of protection, hazard management, crack climbing movement skills, and leading strategies. Students will lead climb traditional routes by the end of the course. Upon completion of the course the student may be recommended for the A.C.M.G Climbing Gym and, or Tope Rope instructors program.

Prerequisite: ADVG 1570

ADVG 2510 2 credits
Moving Water Canoe Instructor (60F hours)
Students are taught advanced moving water canoeing skills, required for the Canadian Recreational Canoe Association Moving Water Instructor Certificate. Course content includes river hydraulics, advanced strokes, and advanced paddling.

Prerequisite: ADVG 1510

ADVG 2520 2 credits
Canoe Trip Leader (60 hours)
Canoe tripping skills leading to the Canadian Recreational Canoe Association Trip Leader Certificate. Canoe tripping, trip planning, trip experience.

Prerequisite: ADVG 2510

ADVG 2530 2 credits
Kayak 3 (60F hours)
Upon completion of this course, students have developed advanced whitewater kayaking and leadership skills. Students participate in the Level 1 Flatwater Kayak Instructor Certification course through Canoe Kayak British Columbia, leading to the Assistant River Kayak.

Prerequisite: ADVG 2490

ADVG 2540 2 credits
Senior River Kayak Instructor (60 hours)
Students gain in-depth whitewater kayaking instructional skills. Students participate in the Level 2 and/or Level 3 Whitewater Kayak Instructor and Leader Certification Course through Canoe Kayak British Columbia.

Prerequisite: ADVG 1600 and ADVG 2530

ADVG 2550 1 credits
Telemark Ski Instructor Level 1 (30 hours)
This course offers instruction in nordic skiing, and leads to the CANSI Telemark Instructor Level 1 Certificate. Course content includes advanced Nordic downhill techniques and teaching skills.

Prerequisite: Students must be enrolled in an Adventure Studies Department supported program. or with permission of the instructor.

ADVG 2560 1 credits
Nordic Ski Instructor 1 (20 hours)
The Canadian Association of Nordic Ski Instructors Level 1 course. An introduction to instructing Nordic skiing. Course content includes: classic, skating, and telemark technique, using telemark, skating and classic equipment. CANSI teaching progressions.

Prerequisite: Students must be enrolled in an Adventure Studies Department supported program., or with permission of the instructor.

ADVG 2570 2 credits
Ski Tour 2 (80F hours)
Students are instructed in advanced backcountry skiing, route finding, evacuations, ski tour guiding, and methods for teaching backcountry skiing.

Prerequisites: ADVG 2030, ADVG 1560, and ADVG 1590

ADVG 2580 2 credits
Guide Training Skiing - Touring (80F hours)
Continuing from ADVG 2230: Guide Training Skiing - Mechanized, this is the second of two training courses that prepare guide candidates for the Assistant Ski Guide Exam. This course introduces professional standards common to ski tour guiding including information gathering and hazard management; guiding and professionalism; trip planning and use of options; terrain use; uphill and downhill guiding techniques; client care; overnight travel; glacier travel techniques; and small and large group management. Participants are screened in advanced backcountry ski techniques.

Prerequisite: ADVG 2230

ADVG 2590 2 credits
Guide Training - Rock (80 hours)
This is the first course in the Rock Guide program and the recommended entry point for students intending to complete the Mountain Guide Certificate or Diploma. Course content includes a variety of technical guide applications common to rock, ski or alpine guiding, such as professionalism and guiding; equipment common to guides; preparation and planning a trip; climbing systems for guiding; descent systems; and improvised rescue systems.

Prerequisite: ADVG 2030 (Canadian Mountain and Ski Guide Diploma); ADVG 1570, ADVG 1580, ADVG 2030 (all other programs)

ADVG 2610 2 credits
Apprentice Rock Guide (80 hours)
This certification course evaluates candidates according to standards established by the Association of Canadian Mountain Guides. This course involves evaluating and coaching guiding techniques, while simulating a guide-client relationship on long, multi-pitch rock routes and sport-climbs, and requires a high level of rock climbing proficiency. Students also demonstrate field and classroom teaching techniques. This is the required course to work as an apprentice guide in rock terrain.

Prerequisite: ADVG 2590

ADVG 2620 2 credits
Rope Rescue (60F hours)
This is the B.C. Provincial Emergency Program Team Member course. Course content includes rope rescue systems, belays, lowers, raises, knot passing, rescue environments, and rescue simulations.

Prerequisite: ADVG 2590 or ADVG 2800

ADVG 2630 2 credits
Rope Rescue Team Leader (60F hours)
This is the B.C. Provincial Emergency Program Rope Rescue Team Leader course. Course content includes advanced rope rescue techniques and rope rescue team leadership.

Prerequisite: ADVG 2620

ADVG 2640 2 credits
Sea Kayaking 1 (60F hours)
Upon completion of this course, students gain an understanding of sea kayaking techniques and the ocean environment, tides, ocean flora and fauna, sea kayak equipment, and ocean safety. Students perform rescues, navigate in a variety of ocean environments, and execute various guiding techniques.
Prerequisite: ADVG 1020 and ADVG 1530

ADVG 2650 3 credits
Sea Kayaking 2 (110F hours)
Upon completion of this course, students perform advanced sea kayaking instruction, understand guiding leadership and leadership criteria, talk knowledgeably about ocean safety, execute complicated ocean rescues, and are able to plan an extended overnight trip. Students participate in the Association of Sea Kayak Guides Assistant Guide Exam.

Prerequisite: ADVG 2640

ADVG 2652 1 credits
Sea Kayak 3 (40F hours)
This course offers training and certification for Paddle Canada, Sea Kayak Level-1 Instructor. This will allow students to have greater industry opportunity and professional development with instructional sea kayaking. The Level-1 instructor is certified to conduct and certify Paddle Canada courses entitled Introduction to Kayak and Level-1 Skills. They may also assist on the following courses: Level-2 skills, Level-2 Instructor and Introduction to Kayaking Instructor.

Prerequisite: ADVG 2650

ADVG 2660 2 credits
River Rafting 1 (60F hours)
Upon completion of this course, students are able to safely operate paddle and oar-powered river rafts in Class 2 and 3 rapids. The skills and knowledge of legislated standards required for commerical guides in British Columbia are acquired during the course. Students become proficient in all three types of craft (paddle, oar and motor), allowing students to gain an overall perspective of the raft guiding industry.

Prerequisite: ADVG 1600 and ADVG 1530

ADVG 2680 2 credits
IRATA Level 1 Rope Access Technician (60 Hours)
A rope access system is a method of working at height where ropes and associated equipment are used to gain access to and from the work place, and to be supported there. The primary objective when using rope access methods is to plan, manage and carry out the work with minimal accidents, incidents or dangerous occurrences, i.e. to ensure a safe system of work is maintained at all times, and with no damage to property or harm to the environment. Students will participate in the IRATA Level 1 Rope Access Technician curriculum and upon completion of the course will be capable of performing a limited range of rope access tasks. Students will train to the IRATA Level 1 standard and graded to the IRATA assessment criteria.

Prerequisites: ADVG 1570 OR ADVG 1580 OR ADVG 2730

ADVG 2690 2 credits
Elective Activity (60 hours)
As approved by the Adventure Travel Guide Diploma Coordinator, students may receive credit for participation in additional adventure activity courses not taught within the Adventure Guide Diploma. Courses must be recognized training programs to receive consideration.

Prerequisite: Permission of the Department Chair

ADVG 2700 1 credits
Open Water Diver (60 hours)
This is the entry level NASDS (National Association of Scuba Diving) Open Water Scuba Diving certification program. Enables the participant to go sport diving anywhere in the world.

Prerequisite: ADVG 1020 or equivalent

ADVG 2710 2 credits
Advanced/Master Diver (60 hours)
This course includes the NASDS (National Association of Scuba Diving Schools) Advanced Open Water and Master Dive certifications. Course content includes search and recovery, underwater navigation, night diving, deep diving, and five specialty dive modules.

Prerequisite: ADVG 2700

ADVG 2720 2 credits
Dive Supervisor (60 hours)
This course is the first of the NASDS (National Association of Scuba Diving Schools) professional diver programs. Upon completion of this course participants are qualified to organize dive outings for groups and conduct dive tours.

Prerequisite: ADVG 2710

ADVG 2730 2 credits
Swiftwater Rescue Technician 4: Swiftwater Rescue Specialist (60 hours)
This is the Swiftwater Rescue Technician 2 course which includes low and high angle rope applications; night SAR operations in river canyons; use of advanced techniques such as live bait rescues in steep creeks; and use of advanced equipment (including helicopters and self-bailing rafts).

Prerequisite: ADVG 1600

ADVG 2750 2 credits
River Rafting 2 (60F hours)
Students are provided the required river rafting instruction, leading up to the River Rafting Guide Examination. Course content includes rafting equipment, maintenance, paddle rafts, oar rafts, case studies, raft management, and guest management.

Prerequisite: ADVG 2660

ADVG 2760 2 credits
Ice Climbing (60 hours)
This course includes ice climbing techniques for both waterfall ice and mountaineering. Topics include systems for leading, anchors, and steep ice techniques.

Prerequisite: ADVG 1570 or instructor's permission

ADVG 2770 2 credits
Adventure Sports Photography (60 hours)
This course is intended as a digital photography course for guides, with an emphasis on photo composition and the application of photography to the context of guiding businesses. There is an increased demand for the use of quality photography within company brochures, magazine articles, trade shows and self-promotion within the adventure tourism industry. It is imperative that guides are able to understand what makes a quality photograph, how to take quality photographs, how to repair personal and guest equipment in the field, and how to use photographs for promotion purposes.

Prerequisite: Students must be enrolled in an Adventure Studies Department supported program. For example, Bachelor of Tourism Management Degree, Adventure Guide Diploma, Adventure Management Diploma, Adventure Sport Certificate, Canadian Mountain and Ski Guide Program, or with permission of the instructor.

ADVG 2780 2 credits
Sea Kayak 3 (60F hours)
Students will prepare and be examined for the Level 2, Sea Kayak Guides Alliance of BC, certification. This will allow students to lead in Class 2 waters, assist in Class 3 waters and demonstrate comfort in Class 4 waters.

Prerequisite: ADVG 2650

ADVG 2790 2 credits
Ski Tour 3 (70F hours)
This course is an advanced ski tour guiding course on nordic or randonÃ©e equipment, for students who do not meet the prerequisite requirements for the Guide Training for Skiers courses. Course content includes guiding ski tours; terrain assessment; snow stability assessment; route finding; track-setting; decision making; and hazard management.

Prerequisite: ADVG 2570 and ADVG 2810 or ADVG 2600

ADVG 2800 2 credits
Rock Climbing 2 (60F hours)
This is an introduction to multi-pitch gear climbing. It is designed to introduce competent rock climbers to industry-standard multi-pitch climbing and descending systems. Students participate in a non-threatening learning environment, flexible enough to meet the needs of a variety of individuals, and structured to provide a progression of skills and concepts that build on each other in a logical sequence. Upon completion of the course students may be recommended to enroll in the ACMG's Top Rope Instructor certification course.

Prerequisite: ADVG 1570 and intermediate rock climbing ability

ADVG 2810 2 credits
Mountaineering 2 (70 hours)
This is a skill development course in alpine climbing techniques. Students travel in simple to moderate alpine terrain, conducting peaks ascents of semi-technical and technical routes. This course involves multi-pitch climbing on rock, snow, ice, and mixed terrain.

Prerequisite: ADVG 1570 and intermediate rock climbing ability (comfortable in multi-pitch scenarios) and ADVG 1580 and intermediate mountaineering experience (minimum 5 alpine days after ADVG 1580)

ADVG 2820 3 credits
Apprentice Ski Guide (80 hours)
This certification course evaluates candidates according to standards established by the Association of Canadian Mountain Guides. The course involves evaluating and coaching guiding techniques, while simulating a guide-client relationship and managing winter and avalanche hazards, as well as route selection, information gathering, decision making, and uphill and downhill tracksetting. The course demands a high level of proficiency in backcountry skiing or snowboarding in mountainous and glaciated terrain. This course is an apprentice guide standard recognized by HeliCat Canada and the Backcountry Lodges of British Columbia Association.

Prerequisite: ADVG 2230 and ADVG 2580

ADVG 2830 3 credits
International Expedition Planning and Leadership (3,0,0)
This course is concerned with the planning and leadership of international adventure expeditions. Aspects of expedition planning include identification and research of international expeditions; planning timelines and implementation schedules; permit acquisition; sponsorship; socio-political considerations; leadership; training; legal implications; food and equipment acquisitions; cargo shipping; and local ground handling. Students also explore cultural considerations surrounding guiding and leading expeditions in an international setting. Topics include examining the impact of international expeditions on culture, minimizing the cultural impact of international expeditions, cultural considerations of foreign guiding, and stewardship and global citizenship.

Prerequisite: ADVG 1050 or equivalent

ADVG 2840 2 credits
Coastal Sail Cruising 1 (60 hours)
This course is an introduction to coastal sail cruising. Students explore interrelation of cruising with other aspects of coastal adventure tourism. The course is taught in accordance with the Canadian Yachting Association Basic Cruising Standard and is concerned with developing competent coastal sailing skills.

Prerequisite: ADVG 1020 or equivalent

ADVG 2850 3 credits
Instructional Skills Workshop (0,3,0)
The Instructional Skills Workshop (ISW) is a laboratory approach to the improvement of the teaching and learning process. Participants review basic ideas about teaching, check current practices, and within the safe environment of the workshop, try new strategies and techniques.

Prerequiste: ADVG 1050

ADVG 2860 3 credits
Ski Guide (90F hours)
This certification course evaluates candidates according to standards established by the Association of Canadian Mountain Guides. Candidates demonstrate the ability to gather information, choose appropriate terrain, and manage hazards in remote, glaciated mountain terrain. Topics also include client care, group management, and conduct of guides meetings. A high level of proficiency in backcountry skiing or snowboarding is required. This course is the 'lead guide' standard recognized by HeliCat Canada and the Backcountry Lodges of British Columbia Association.

Prerequisite: ADVG 2820, ADVG 2910, and ADVG 2960

ADVG 2870 2 credits
Rock Guide (80F hours)
This certification course evaluates candidates to standards established by the Association of Canadian Mountain Guides. Candidates demonstrate a high level of rock climbing proficiency and applied guide techniques on long multi-pitch routes and sport-climbs. Additional topics include advanced, improvised, rescue techniques in high angle settings.

This certification is the 'lead' guide standard for rock climbing operations.

Prerequisite: ADVG 2610

ADVG 2880 3 credits

Apprentice Alpine Guide (100 hours)

This certification course evaluates candidates to standards established by the Association of Canadian Mountain Guides. Candidates are assessed in alpine guiding techniques in a wide variety of mountain terrain and conditions, including client management on rock, snow and ice; advanced navigation; glacier travel; risk management; decision-making; and use of options. A high level of fitness is required. This course is the standard for working as an apprentice guide in mountaineering and climbing operations.

Prerequisite: ADVG 2310 and ADVG 2600

ADVG 2890 3 credits

Alpine Guide (100F hours)

This certification course evaluates candidates according to standards established by the Association of Canadian Mountain Guides. Candidates demonstrate a high level of proficiency climbing on alpine rock, ice, snow and glaciers, as well as the ability to manage clients and hazards in a wide variety of alpine terrain. This certification is the 'lead' guide standard for mountaineering and climbing operations.

Prerequisite: ADVG 2880 and ADVG 2910

ADVG 2900 2 credits

Expedition 2 (60 hours)

Students engage in a self-directed, 2-3 week expedition which must be a significant achievement, and may be international in nature.

Prerequisite: Admission to the Adventure Guide Diploma and at least 50 program credits completed

ADVG 2930 2 credits

Rock Climbing 4 (70 hours)

This is a preparation course for The Association of Canadian Mountain Guides - Guide Training Rock course. It is designed to introduce advanced rock climbers to professional guiding skills. Students are coached and instructed in order to attain entry-level guiding, standard rope management, technical systems, movement, and high angle rope rescue skills. Students receive feedback upon completion of the course as to their competency to proceed to the ADMG Guide Training Rock course.

Prerequisite: ADVG 2800 and advanced multi-pitch rock climbing skills 5.9 traditional and 5.10 sport

ADVG 2940 2 credits

Mountaineering 3 (70 hours)

This is a pre-course, to prepare candidates for entry in the Association of Canadian Mountain Guides - Guide Training Alpine course, designed to teach professional guiding skills to competent climbers and mountaineers. The course is meant to be taught in a non-threatening learning environment, flexible enough to meet the needs of a variety of individuals, and structured to provide a progression of skills and concepts that build on each other in a logical sequence.

Prerequisite: ADVG 2930 with advanced climbing ability and ADVG 2810 with intermediate mountaineering experience (minimum of 5 days of alpine climbing after ADVG 2810)

ADVG 3110 3 credits

Adventure Activities (1,0,4)

This course offers practical exposure to the planning and participation in a selection of adventure sports. Students are introduced to adventure sports by participating in activities such as whitewater kayaking, rock and ice climbing, sea kayaking and skiing; activities may change from year to year. Additional topics are discussed, such as trip preparation, and safety and leadership styles. While most of the group and technical equipment are provided, students are required to provide their own clothing and equipment, and participate in at least one weekend field trip and a number of evening instructional sessions. This course acts as a prerequisite to upper-level ADVG courses for students who may not have completed lower-level activity courses.

Prerequisite: 2nd year standing in a TRU academic program and permission of the instructor

ADVG 3130 3 credits

Adventure Operations (3,0,0)

This course is an introduction to the planning of adventure activities and the operation of various types of adventure programs. Students gain practical knowledge by developing and planning an adventure activity, and discussing the principles of implementation. The course provides an overview of the day-to-day tasks, roles and responsibilities of operating adventure programs, and explores trends and issues that affect the management of adventure operations.

Prerequisite: ADVG 3110 or equivalent

ADVG 3200 3 credits

Adventure Sport and Tourism (3,0,0)

Adventure sport and adventure tourism are terms used to describe a wide variety of activities - from bungee jumps to commercial ski trips to the South Pole. This course provides a survey of the adventure sport and adventure tourism industry; its philosophical foundations; adventure in contemporary society; the interrelationship of adventure in leisure, recreation, tourism, and extreme sports; and career paths.

Prerequisite: 3rd year standing

ADVG 4010 3 credits

Business Applications for Eco and Adventure Tourism Management (3,0,0)

This course is the study of applied business concepts and practices pertaining to the management and marketing of eco and adventure tourism operations. The course examines tourism strategic management, business start-up considerations, product positioning, tourism opportunity studies, tourism consulting, innovative pricing methods, and product development.

Prerequisite: 3rd year standing

ADVG 4020 3 credits

Legal Liability and Risk Management for Eco and Adventure Businesses (3,0,0)

This course is the study of risk management and law pertinent to the management and delivery of adventure tourism operations. The course examines legal liability concepts, waivers, case law, risk management practices, insurance and post-incident strategies.

Prerequisite: 3rd year standing and ADVG 2060 or TMGT 2250 or BLAW 2910 or instructor's permission

ADVG 4030 3 credits

Contemporary Perspectives in the Eco and Adventure Industry (3,0,0)

This course is the study of contemporary issues pertaining to the management of eco and adventure tourism. Although topics may vary depending upon current issues and trends, it is expected that the course will examine the effect of socio-political changes to tourism, the commodification of eco tourism, adventure racing, sexual exploitation in tourism, and the philosophical implications of search and rescue and technology to the eco and adventure experience.

Prerequisite: 3rd year standing

ADVG 4040 3 credits

Programming Experiential Activities (3,0,0)

Students study the design, development, and implementation of experiences for clients of eco and adventure tourism products. Students are involved in programming and delivery of adventure therapy products for youth at risk at a not-for-profit social service agency, consider eco and adventure experience sequencing, design corporate team building exercises, study program customization, and develop risk perception values.

Prerequisite: 3rd year standing

ADVG 4050 3 credits

International Adventure Tourism Business (3,0,0)

This course is intended to provide an overview of international adventure tourism business development and management. Topics will include development theory, globalization, factors that affect international business development, colonialism and foreign aid, international tourism finance, global trade in services, the affect of women's rights on production and development, and numerous case studies.

Prerequisite: 3rd year standing

ADVG 4070 3 credits

Directed Studies in Adventure (0,3,0)

This course is designed to allow students the opportunity to investigate a specific field or topic in Nature-based or Adventure Tourism. Consultation with, and permission of, a Bachelor of Tourism Management faculty member and the Associate Dean is required. This means that the course is self-directed but the student must consult with and meet the requirements of a faculty member for the project.

Prerequisite: Students must have completed at least fifteen 4000-level ADVG credits before applying for this course. Adventure Studies Department Chair and Dean permission required.

ADVG 4080 3 credits

Graduating Seminar (0,3,0)

This course teaches research methodology by involving students in a project of their choice. The course is in seminar format and each student designs and completes a project within the semester. Selected readings provide the foundation for student contribution to class discussion, and to the development of their project.

Prerequisite: 4th year standing or instructor's permission.

ADVG 4090 3 credits

Nature and Community Based Development (3,0,0)

Students explore community-based adventure tourism, including policy, planning, and development. International tourism managers must understand sustainability; community development; how tourism is used to promote conservation; and how to involve local populations in the development decision-making process. While community-based tourism concepts are finding their way into North American tourism, this course concerns itself primarily with issues facing developing countries and lessons that may be brought to North American operations. Topics include tourism and community development; the creation of tourism opportunity and development strategies; the role of consultants and non-governmental organizations; sustainable tourism development; social impact assessment; community tourism assessment; pro-poor tourism development; achieving global competitiveness; community-based tourism for conservation; and the importance of including women in community development. Students examine numerous case studies and applications.

Prerequisite: 3rd year standing

ADVG 4100 6 credits

Adventure Field School - International (0,0,12)

This course is a 4-6 week field school to study adventure development, policy, planning, and operations in an international setting. Students use this field experience as a basis for the application of theoretical principles learned in the classroom to practical field work. The development and operation of international adventure and nature-based tourism requires extensive first-hand experience in an area. This course is intended to facilitate students' travel to an international region in order to study adventure and nature-based tourism product and business opportunities, and community development.

Prerequisite: 3rd year standing

ADVG 4110 3 credits

Adventure Field School - International (0,0,6)

This course is a three-credit 2-3 week field school to study adventure development, policy, planning and operations in an international setting. Students use this field experience as a basis for the application of theoretical principles learned in the classroom to practical field work. The development and operation of international adventure and nature-based tourism requires extensive first-hand experience in the local area. This course facilitates students' travel to an international region in order to study adventure and nature-based tourism product and business opportunities, and community development.

Prerequisite: 3rd year standing and permission of the instructor

ADVG 4120 6 credits

Adventure Field School - Canada (90 hours)

This is a six-credit, 4-6 week field school to study adventure development, policy, planning and operations in a Canadian setting. Students use this field experience as a basis for the application of theoretical principles learned in the classroom to practical field work. The development and operation of adventure and nature-based tourism requires extensive first-hand experience in an area. This course facilitates students' travel to a region within Canada in order to study adventure and nature-based tourism product and business opportunities, and community development. Prerequisites: 3rd year standing

ADVG 4130 3 credits

Adventure Field School - Canada (90F hours)

This is a three-credit, 2-3 week field school to study adventure development, policy, planning, and operations in a Canadian setting. Students use this field experience as a basis for the application of theoretical principles learned in the classroom to practical field work. The development and operation of adventure and nature-based tourism requires extensive first-hand experience in an area. This course facilitates students' travel to a region within Canada in order to study adventure and nature-based tourism product and business opportunities, and community development.

Prerequisite: 3rd year standing or permission of the instructor

ADVG 4140 3 credits

Community Capacity Building (3,0,0)

Students explore the socio-economic notion of nature-based activities and toursim as a mechanism for community development. While identifying and exploring possible community recreation and tourism opportunities, students analyze the benefits, costs (monetary and social), and facilitative models for ensuring community capacity building, towards sustainability and project buy-in.

Prerequisites: 3rd year standing

ADVG 4160 3 credits

Tour Operations (3,0,0)

Students explore the operation of tours to domestic and international destinations. The complexities, challenges and realities of planning, organizing, and operating tours with clients are discussed.

Prerequisite: 3rd year standing

ADVG 4200 3 credits

Recreation and Tourism Management (3,0,0)

The theory and practice of managing natural resource based recreation and tourism. This course will consider natural resource based recreation and tourism from social, economic, business and resource management perspectives. It will provide an introduction to the foundations of recreation and tourism in modern society, including resource management impacts on recreation and tourism, principles of recreation systems planning, and administration and management of natural resource based recreation and tourism businesses. It includes extensive use of case studies and current issue topics.

Prerequisite: Third-year standing in the BNRS program

ADVG 4210 3 credits

Adventure and Sport Marketing (3,0,0)

Students focus on the unique marketing attributes of the adventure and sport product. The course offers an advanced and integrative approach to the study of adventure and sports marketing mix and promotion, and centres on marketing planning, identification of preferred media strategies, and the design of targeted marketing products.

Prerequisite: 3rd year standing

ADVG 4220 3 credits

The Culture of Adventure (3,0,0)

Adventure activities have a long-standing culture that is important to understand in the context of contemporary use. As adventure activities become socialized within North America, its origins become an important context for its future development. Students explore adventure philosophy, history, literature, art, stories, mythology, values, mentors, evolution, and contemporary applications.

Prerequisite: 3rd year standing

ADVG 4230 3 credits

Consulting in Adventure (3,0,0)

This course is the study of consulting in adventure. Topics will include the consulting process, the role of consultants, consulting opportunities, responding to requests for proposals, proposal scoring and rating systems, consulting skills, budgeting, pricing consulting services, and case studies. Students will be expected to carry out a consulting project of their own choosing as part of this course.

Prerequisite: ADVG 4010 or instructor's permission

ADVG 4240 3 credits

Adventure Studies Field Research (1,0,11)

Students conduct in-depth, hands-on field research, develop their findings, and incorporate them into their program of adventure study. The course is participatory in nature and is designed to stimulate inquiry and active learning. The process helps students to connect conceptual material to case study, learn field research techniques, collect and analyze field data, and develop holistic and critical thinking skills.

Prerequisite: 3rd year standing

ADVG 4250 3 credits

Adventure Studies Practicum (1,0,9P)

This course provides hands-on experience to enhance the student's academic studies. This is a work experience course that enables students to link theory and practice and consists of a work project undertaken for, or in collaboration with, an organization, most typically a business, association or community.

Prerequisite: 3rd year standing. Students who wish to undertake a practicum must first find an organization that is willing to supervise their work. Practicum applications must be received by the Adventure Studies Department at least one full semester prior to the placement.

ADVG 4800 3 credits

Adventure Capstone Course (3,0,0)

This capstone course investigates contemporary adventure and sport issues, and aims to prepare students as future leaders in business and community development. Topics include ongoing personal and professional development, navigating through current industry trends, graduate school expectations, and vocational issues. Through readings and class discussions, students formulate a personal written philosophy, articulating their vision and mission as professionals in the field of adventure and sport.

Prerequisite: 4th year standing. This course should be taken in the last year of a student's program.

AGSC 2100 3 credits

Introduction to Food Production Systems (3,2,0)

This course is a study of the fundamental concepts and principles of food production systems. Students survey a range of agricultural systems using global, North American, Canadian, and B.C. examples. Students will learn how agriculture interacts with natural ecosystems and other land uses.

Required field trips are an integral part of the course, and some weekend trips are mandatory.

prerequisite: None.

Required Seminar: AGSC 2100S

Note: Students cannot receive credit for both AGSC 2100 and AGSC 2200

AGSC 2200 3 credits

Food Systems at a Local Level and Beyond (4,0,0)

Students are introduced to agriculture and food systems, focusing on the local level but including information on global systems. Topics of discussion include agriculture, local food production, food security and food policy, sustainability, commercialization, and globalization. Case studies and projects are used to help students apply concepts learned during lecture, and to develop critical thinking, problem solving, communication, and conflict resolution skills.

Prerequisite: None.

Note: Students cannot receive credit for both AGSC 2100 and AGSC 2200

ANHD 1010 3 credits

Veterinary Office Skills (45 hours)

Students are instructed in the skills required for the successful performance of veterinary receptionist duties. These include veterinary terminology, use of veterinary software packages, clience service, veterinary office management, and inventory management. Students also consider the ethics of veterinary practice as it pertains to drug dispensing, veterinary-client-patient relationships and client-patient records.

Prerequisite: Acceptance into the TRU Animal Health Technology Distance Education (AHTDE) program

ANHD 1100 3 credits

Anatomy and Physiology 1 (45 hours)

This is the first of two anatomy and physiology courses dealing with domestic animals. The course emphasizes clinically relevant material for the Animal Health Technician student.

Prerequisite: Acceptance into the TRU Animal Health Technology Distance Education (AHTDE) program

ANHD 1110 3 credits

Veterinary Parasitology (45 hours)

This laboratory course focuses on parasitology for the animal health technologist. The theoretical and practical aspects of veterinary parasitology are emphasized. Students examine internal and external parasites of small and large animals. Topics include life cycles of parasites, diagnostics and identification, and general parasite prevention and treatment. Students are also acquainted with the handling and submission of various types of laboratory samples and introduced to basic microscopy.

Prerequisite: Successful completion (a minimum grade of C) of ANHD 1120 and ANHD 1130

ANHD 1120 3 credits

Animal Nursing 1 (45 hours)

This is the first of three Animal Nursing courses concerned with small companion animals. Students focus on the day-to-day technical procedures and nursing care performed by an animal health technologist in a veterinary clinic.

Prerequisite: Successful completion (minimum grade of C) of ANHD 1010 and ANHD 1100

ANHD 1130 3 credits

Animal Behaviour (45 hours)

Animal behaviour is a growing field in veterinary medicine. Animal Health Technology Distance Education (AHTDE) students are provided with the skills required to confidently approach animal behaviour issues and strategies. Topics include training methods, behaviour problems, and animal temperament assessment. The course emphasizes the role of the animal health technologist in offering animal behaviour counseling in a small animal veterinary practice setting.

Prerequisite: Successful completion (minimum grade of C) of ANHD 1010 and ANHD 1100

ANHD 1210 3 credits

Veterinary Microbiology (45 hours)

Students are introduced to the information, terminology, and techniques that are the basis of veterinary microbiology. Topics include microbial anatomy and physiology; sterilization and disinfection; aseptic techniques; antimicrobial susceptibility testing; mycology; atypical prokaryotic pathogens; virology; and the basic theory and application of laboratory methods to identify common veterinary pathogens.

Prerequisite: Successful completion (minimum grade of C) of ANHD 1120 and ANHD 1130

ANHD 1900 5 credits

Veterinary Clinical Studies 1 (300 hours)

Veterinary Clinical Studies is a sequence of courses in the AHTDE program in which students are required to complete a minimum of 20 hours of employed clinical work per week to obtain credit. Each course corresponds with one of the nine semesters in the AHTDE program.

Prerequisite: Admittance into Semester 1 of the TRU Animal Health Technology Distance Education program

ANHD 1910 5 credits

Veterinary Clinical Studies 2 (300 hours)

Veterinary Clinical Studies is a sequence of courses in the AHTDE program in which students are required to complete a minimum of 20 hours of employed clinical work per week to obtain credit. Each course corresponds with one of the nine semesters in the AHTDE program.

Prerequisite: Admittance into Semester 2 of the TRU Animal Health Technology Distance Education program

ANHD 1920 5 credits

Veterinary Clinical Studies 3 (300 hours)

Veterinary Clinical Studies is a sequence of courses in the AHTDE program in which students are required to complete a minimum of 20 hours of employed clinical work per week to obtain credit. Each course corresponds with one of the nine semesters in the AHTDE program.

Prerequisite: Admittance into Semester 3 of the TRU Animal Health Technology Distance Education program

ANHD 2100 3 credits

Anatomy and Physiology 2 (45 hours)

Continuing from ANHD 1100: Anatomy and Physiology 1, students focus on internal body systems in domestic animals, in addition to avian anatomy and physiology.

Prerequisite: Successful completion (minimum grade of C) of ANHD 2110 and ANHD 2150

ANHD 2110 3 credits

Veterinary Hematology (45 hours)

In this laboratory course, students focus on veterinary hematology for the animal health technologist. The theoretical and practical aspects of veterinary hematology are discussed, while students are introduced to the life cycle and roles of blood cells, and the basics of coagulation. Topics include the preparation of blood films, the ability to perform complete blood counts, the analysis of blood cells (normal and abnormal), hematologic mathematical calculations, and the familiarization of the variety of available blood tests.

Prerequisite: Successful completion (minimum grade of C) of ANHD 1110 and ANHD 1210

ANHD 2120 3 credits

Animal Nursing 2 (45 hours)

Continuing from ANHD 1120: Animal Nursing 1, students focus on developing their advanced nursing skills, including surgical assistance.

Prerequisite: Successful completion (minimum grade of C) of ANHD 2110 and ANHD 2150

ANHD 2130 3 credits

Radiology (45 hours)

This course is a combination of theory and practical application that enables students to understand and apply the basic principles of veterinary radiography. Hands-on clinical work familiarizes students with the proper preparation and positioning of companion animals for routine radiological studies. The course also includes basic equine radiographic positioning, dental radiography, technical errors, basics of ultrasonography, formulating technique charts, and contrast radiography. The importance of radiographic safety is stressed throughout the course.

Prerequisite: Successful completion (minimum grade of C) of ANHD 2100 and ANHD 2120

ANHD 2140 3 credits

Pharmacology and Laboratory Mathematics (45 hours)

This course instructs students on the basic pharmacology and the commonly used classes of veterinary drugs. The laws and regulations that accompany the privilege of prescribing and dispensing drugs are considered. Students also discuss the major classes of drugs, with examples in each category, along with the mathematical principles and techniques used in their field of work. The emphasis is on accurately calculating dosages, including continuous intravenous infusion and dilution of solutions.

Prerequisite: Successful completion (minimum grade of C) of ANHD 2100 and ANHD 2120

ANHD 2150 3 credits
Immunology and Animal Diseases (45 hours)
Students begin with a study of the immunological basis of disease and progress to common disease syndromes encountered in companion and food producing animals. Topics include the immune response; inflammation; common immunological tests; the theory of vaccination and vaccination protocols; neonatal and geriatric considerations; the role of stress, nutrition and the environment in disease; and specific disease syndromes.

Prerequisite: Successful completion (minimum grade of C) of ANHD 1110 and ANHD 1210

ANHD 2900 5 credits
Veterinary Clinical Studies 4 (300 hours)
Veterinary Clinical Studies is a sequence of courses in the AHTDE program in which students are required to complete a minimum of 20 hours of employed clinical work per week to obtain credit. Each course corresponds with one of the nine semesters in the AHTDE program.

Prerequisite: Admittance into Semester 4 of the TRU Animal Health Technology Distance Education program

ANHD 2910 5 credits
Veterinary Clinical Studies 5 (300 hours)
Veterinary Clinical Studies is a sequence of courses in the Animal Health Technology Distance Education program in which students are required to complete a minimum of 20 hours of employed clinical work per week to obtain credit. Each course corresponds with one of the nine semesters in the AHTDE program.

Prerequisite: Admittance into Semester 5 of the TRU Animal Health Technology Distance Education program

ANHD 2920 5 credits
Veterinary Clinical Studies 6 (300 hours)
Veterinary Clinical Studies is a sequence of courses in the Animal Health Technology Distance Education program in which students are required to complete a minimum of 20 hours of employed clinical work per week to obtain credit. Each course corresponds with one of the nine semesters in the AHTDE program.

Prerequisite: Admittance into Semester 6 of the TRU Animal Health Technology Distance Education program

ANHD 3110 3 credits
Veterinary Clinical Pathology (45 hours)
This laboratory course focuses on clinical pathology for the animal health technologist, including the theoretical and practical aspects of veterinary clinical chemistry and urinalysis. Students are introduced to basic organ function as they relate to and affect clinical chemistry results, and how disease can be diagnosed in laboratory medicine. An emphasis is placed on ensuring quality control, and the steps and skills required to deliver accurate, timely results. Students use the appropriate skills and tools required to perform a complete in-house urinalysis.

Prerequisite: Successful completion (minimum grade of C) of ANHD 3140 and ANHD 3170

ANHD 3120 3 credits
Intensive Care (45 hours)
Students develop a familiarity with specialized anaesthetic protocols which may be prescribed for certain patients, in addition to the knowledge and skills required for the various procedures and equipment in trauma and emergency patient care units.

Prerequisite: Successful completion (minimum grade of C) of ANHD 3110 and ANHD 3160

ANHD 3140 3 credits
Anaesthesia (45 hours)
Students develop a familiarity and competence with the anaesthetic and analgesic agents and equipment utilized in veterinary medicine, and their use in various species.

Prerequisite: Successful completion (minimum grade of C) of ANHD 2130 and ANHD 2140

ANHD 3150 3 credits
Laboratory and Exotic Animals (45 hours)
Students are introduced to the housing and husbandry needs of common exotic pets and laboratory animal species. Students are also instructed in how to handle, sex, and restrain common species for clinical procedures. Discussion topics include animal research, the ethics of using animals for research, and animal welfare.

Prerequisite: Successful completion (minimum grade of C) of ANHD 3110 and ANHD 3160

ANHD 3160 3 credits
Large Animal Science (45 hours)
Students are introduced to large animal husbandry, restraint, routine veterinary procedures, animal welfare and hospital management. Personal safety is emphasized.

Prerequisite: Successful completion (minimum grade of C) of ANHD 3140 and ANHD 3170

ANHD 3170 3 credits
Animal Nursing 3 (45 hours)
This is the third of three Animal Nursing courses concerned with small companion animals. Students focus on their technical nursing skills and small animal veterinary dentistry.

Prerequisite: Successful completion (minimum grade of C) of ANHD 2130 and ANHD 2140

ANHD 3900 5 credits
Veterinary Clinical Studies 7 (300 hours)
Veterinary Clinical Studies is a sequence of courses in the Animal Health Technology Distance Education program in which students are required to complete a minimum of 20 hours of employed clinical work per week to obtain credit. Each course corresponds with one of the nine semesters in the AHTDE program.

Prerequisite: Admittance into Semester 7 of the TRU Animal Health Technology Distance Education program

ANHD 3910 5 credits
Veterinary Clinical Studies 8 (300 hours)
Veterinary Clinical Studies is a sequence of courses in the Animal Health Technology Distance Education program in which students are required to complete a minimum of 20 hours of employed clinical work per week to obtain credit. Each course corresponds with one of the nine semesters in the AHTDE program.

Prerequisite: Admittance into Semester 8 of the TRU Animal Health Technology Distance Education program

ANHD 3920 5 credits
Veterinary Clinical Studies 9 (300 hours)
Veterinary Clinical Studies is a sequence of courses in the Animal Health Technology Distance Education program in which students are required to complete a minimum of 20 hours of employed clinical work per week to obtain credit. Each course corresponds with one of the nine semesters in the AHTDE program.

Prerequisite: Admittance into Semester 9 of the TRU Animal Health Technology Distance Education program

ANHT 1010 2 credits
Laboratory Mathematics (2,0,0)
Animal health technology students develop a practical understanding of the principles and techniques of mathematics and statistics with an emphasis on calculating dosages, intravenous infusions and dilution of solutions. An introduction to statistics is included to allow students to critically read journal articles and pharmaceutical claims and to facilitate research efforts.

Prerequisite: Admission to the Animal Health Technology program

ANHT 1090 1 credits
Animal Behaviour 1 (1,0,0)
The first of four courses on applied animal behavior, this course introduces students to normal animal behavior. Students learn handling, management and training skills used by animal health technologists to apply to hospitalized animals and animals in the home. The basics of managing dogs and cats at the animal health technology program, enhancing animal well-being and introductory training methods are discussed, in addition to operant conditioning.

Prerequisite: Admission to the Animal Health Technology program

ANHT 1510 1 credits
Veterinary Terminology (1,0,0)
Students analyze and define the components of veterinary terms. These skills enable students to determine the meaning of frequently used veterinary terms and to create new terms for specific applications.

Prerequisite: Admission into the Animal Health Technology program

ANHT 1520 2 credits
Animal Nursing 1 (2,0,1)(L)
Students focus on the theory and practice related to basic handling and restraint of companion (small) animals and the components of a physical examination. Additional topics include blood collection techniques and medicating patients via enteral and parenteral routes.

Prerequisite: Admission to the Animal Health Technology program

Required Lab: ANHT 1520L

ANHT 1530 2 credits
Introductory Veterinary Immunology (2,0,0)
Students are offered the basic fundamentals of veterinary immunology, and focus on the technician's role in a clinical environment. A solid understanding of the biological mechanisms of the immune response, principles of vaccination and common serological assays is important in the daily clinical role of the technician as well as in the context of client communication and education.

Prerequisite: A minimum grade of C in the following courses: ANHT 1010, ANHT 1090, ANHT 1510, ANHT 1520, ANHT 1540, ANHT 1590, ANHT 1720, ANHT 1800, MICR 1580

ANHT 1540 1 credits
Veterinary Office Management (1,0,2)
Students are introduced to the concepts of human relationships and how they influence the business of veterinary medicine. Topics include personality and communication styles, client communications, basic management principles, facilities, stress management, and finances. The computer portion of this course focuses on providing students with a good working knowledge of Microsoft Word and PowerPoint, as well as an introduction to the use of veterinary practice software.

Prerequisite: Admission to the Animal Health Technology Program

Required Lab: ANHT 1540L

ANHT 1560 3 credits
Pharmacology (3,0,0)
This lecture course outlines the various classifications and use of drugs utilized in veterinary practice.

Prerequisite: A minimum grade of C in the following courses: ANHT 1010, ANHT 1090, ANHT 1510, ANHT 1520, ANHT 1540, ANHT 1590, ANHT 1720, ANHT 1800, MICR 1580

ANHT 1590 2 credits
Domestic Animal Anatomy and Physiology 1 (2,0,2)(L)
Animal health technology students are introduced to the anatomy and physiology of domestic animals. Topics include anatomical terminology, cell and tissues, and the skeletal, muscular, nervous, integument and sensory systems. An emphasis is placed on clinically relevant material to prepare students for common procedures performed in veterinary practice. Students are provided with hands-on opportunities to locate and identify anatomical structures and reinforce theory.

Prerequisite: Admission to the Animal Health Technology program

Required Lab: ANHT 1590L

ANHT 1620 2 credits
Animal Nursing 2 (1,0,1)(L)
Students focus on the day-to-day procedures commonly performed by a technologist in a veterinary clinic. Procedures include urine collection, animal care, and eye and ear exams. Additional topics include nutrition and medical records.

Prerequisite: A minimum grade of C in the following courses: ANHT 1010, ANHT 1090, ANHT 1510, ANHT 1520, ANHT 1540, ANHT 1590, ANHT 1720, ANHT 1800, MICR 1580

Required Lab: ANHT 1620L

ANHT 1670 1 credits
Dentistry for Animal Health Technicians (1,0,0)
This course prepares students to perform dental prophylactic care in small animals, as well as assisting the veterinarian with extractions and endodontic procedures. Topics include dental anatomy; anatomical and directional terminology; dental charting; dental disorders including periodontal disease; dental prophylactic care; instrumentation; radiology; and dental nerve blocks.

Prerequisite: A minimum grade of C in the following courses: ANHT 1010, ANHT 1090, ANHT 1510, ANHT 1520, ANHT 1540, ANHT 1590, ANHT 1720, ANHT 1800, MICR 1580

ANHT 1690 2 credits
Domestic Animal Anatomy and Physiology 2 (2,0,2)(L)
This course is a continuation of ANHT 1590: Domestic Animal Anatomy and Physiology 1, and is designed to give animal health technology students a continued understanding of the basic anatomy and physiology of common domestic animals. Topics include the gastrointestinal, respiratory, cardiovascular, lymphatic, urinary and reproductive systems. Students are prepared, with clinically relevant material, for common procedures performed in veterinary practice. Students are provided with hands-on opportunities to locate and identify anatomical structures and reinforce theory.

Prerequisite: A minimum grade of C in the following courses: ANHT 1010, ANHT 1090, ANHT 1510, ANHT 1520, ANHT 1540, ANHT 1590, ANHT 1720, ANHT 1800, MICR 1580

Required Lab: ANHT 1690L

ANHT 1720 3 credits
Veterinary Clinical Pathology 1 (3,0,2)(L)
Students develop a solid theoretical and practical background in veterinary clinical haematology. This course introduces students to the use of manual haematological techniques in the diagnosis and treatment of veterinary disease. Hands-on opportunities are provided to perform the routine and special procedures typically carried out in a veterinary clinic. Students focus on accuracy, efficiency and correct interpretation of data.

Prerequisite: Admission into the Animal Health Technology program

Required Lab: ANHT 1720L

ANHT 1730 3 credits
Veterinary Clinical Pathology 2 (3,0,2)(L)
This course is a continuation of ANHT 1720: Veterinary Clinical Pathology 1, and introduces students to veterinary urinalysis and urinalysis techniques. In addition, students learn about the common clinical chemistry tests and understand the implications of abnormal results. Hands-on opportunities are provided to perform routine urinalysis and clinical chemistry techniques that are typical in a veterinary clinic. Students focus on accuracy, efficiency and correct interpretation of data.

Prerequisite: A minimum grade of C in the following courses: ANHT 1010, ANHT 1090, ANHT 1510, ANHT 1520, ANHT 1540, ANHT 1590, ANHT 1720, ANHT 1800, MICR 1580

Required Lab: ANHT 1730L

ANHT 1800 2 credits
Parasitology (2,0,2)(L)
Animal health technology students develop comprehensive understanding of the identification, life cycle and importance of common veterinary parasites and how to control these organisms. A primary objective for students is client education regarding the role parasites play in the health of animals. Competency in the area of fecal evaluation is stressed. Students examine prepared specimens and are given appropriate demonstrations. On a weekly basis, students use fresh samples for fecal flotations and specialized recovery techniques for the identification of parasites.

Prerequisite: Admission to the Animal Health Technology program

Required Lab: ANHT 1800L

ANHT 1990 1 credits
Animal Behaviour 2 (1,0,0)
This course is a continuation of ANHT 1090: Animal Behavior 1, in which students further develop their awareness, knowledge and skills in applied animal behavior. The course includes lectures and demonstrations with a major emphasis on normal feline behavior.

Prerequisite: A minimum grade of C in the following courses: ANHT 1010, ANHT 1090, ANHT 1510, ANHT 1520, ANHT 1540, ANHT 1590, ANHT 1720, ANHT 1800, MICR 1580

ANHT 2090 1 credits
Animal Behaviour 3 (1,0,0)
In this continuation of Animal Behavior 1 and 2, students further develop their knowledge and skills in applied animal behavior. Emphasis is on the in-depth study of specific common behavior problems in dogs and cats. Guest speakers, case studies and demonstrations may be used to present advanced dog and cat training and management skills using program animals.

Prerequisite: A minimum grade of C in the following courses: ANHT 1530, ANHT 1560, ANHT 1620, ANHT 1670, ANHT 1690, ANHT 1730, ANHT 1990, CMNS 1660, MICR 1680

ANHT 2200 6 credits
Clinical Practicum (240 hours)
Practicum students spend two three-week periods, for a total of six weeks, working in two different veterinary facilities, which are small or mixed animal private veterinary practices. After successful application, some students may qualify to spend one of these three-week periods in a veterinary facility with a limited scope, such as equine, emergency, or research.

Prerequisite: A minimum grade of C in the following courses: ANHT 2090, ANHT 2210, ANHT 2530, ANHT 2540, ANHT 2550, ANHT 2560, ANHT 2570, ANHT 2580, ANHT 2590

ANHT 2210 2 credits
Clinical Cases 1 (0,2,0)
Students apply and integrate material from the Animal Health Technology program through the use of clinical case studies. Clinical case presentations and/or clinical pathological specimens are discussed each week. Students may be assigned mystery clinical case worksheets, which are completed by using laboratory equipment to examine samples, slides, or images.

Prerequisite: A minimum grade of C in the following courses: ANHT 1530, ANHT 1560, ANHT 1620, ANHT 1670, ANHT 1690, ANHT 1730, ANHT 1990, CMNS 1660, MICR 1680

ANHT 2220 2 credits

Clinical Cases 2 (0,2,0)

This course is a continuation of ANHT 2210: Clinical Cases 1. Students continue to work on clinical cases, either presented or assigned by the instructor. In addition, each student investigates, presents and leads a discussion of a clinical case.

Prerequisite: A minimum grade of C in the following courses: ANHT 2090, ANHT 2210, ANHT 2530, ANHT 2540, ANHT 2550, ANHT 2560, ANHT 2570, ANHT 2580, ANHT 2590

ANHT 2530 2 credits

Large and Small Animal Diseases (2,0,0)

Students are introduced to common diseases in companion and farm animals. Clinical signs, diagnostic tests, treatment, prevention, and client communication are discussed, including the role of the veterinary technologist in these areas.

Prerequisite: A minimum grade of C in the following courses: ANHT 1530, ANHT 1560, ANHT 1620, ANHT 1670, ANHT 1690, ANHT 1730, ANHT 1990, CMNS 1660, MICR 1680

ANHT 2540 3 credits

Large Animal Sciences (3,0,0)

Animal health technology students develop a practical, working knowledge of farm animal nutrition, breeding, general management and animal health. Emphasis is placed on global perceptions of animal consumption, animal care and welfare.

Prerequisite: A minimum grade of C in the following courses: ANHT 1530, ANHT 1560, ANHT 1620, ANHT 1670, ANHT 1690, ANHT 1730, ANHT 1990, CMNS 1660, MICR 1680

ANHT 2550 1 credits

Large Animal Clinics 1 (0,1,2)(L)

This course is an introduction to herd health management, husbandry, restraint, nutrition, and physical examinations on large animals and wildlife. Students are familiarized with the routine techniques performed on the following species: equine, bovine, ovine, caprine, camelids, avian, as well as wildlife. Post mortem examinations and tissue sampling is included.

Prerequisite: A minimum grade of C in the following courses: ANHT 1530, ANHT 1560, ANHT 1620, ANHT 1670, ANHT 1690, ANHT 1730, ANHT 1990, CMNS 1660, MICR 1680

ANHT 2560 3 credits

Anesthesia for Veterinary Technologists (3,0,3)(L)

This is an introductory course in veterinary anesthesia. Theoretical and practical application familiarizes students with using anesthetic agents including analgesics, patient monitoring, and operating and maintaining anesthetic equipment.

Prerequisite: A minimum grade of C in the following courses: ANHT 1530, ANHT 1560, ANHT 1620, ANHT 1670, ANHT 1690, ANHT 1730, ANHT 1990, CMNS 1660, MICR 1680.

Required Lab: ANHT 2560L

ANHT 2570 2 credits

Surgical Assistance 1 (2,0,3)(L)

This course is designed to familiarize students with the concepts of sterility, operating room conduct and procedures. Students implement these concepts with small group practice. At the completion of this course, students can prepare basic equipment, materials, facilities, personnel, and surgical patients for surgery, and perform the duties of a surgical assistant.

Prerequisite: A minimum grade of C in the following courses: ANHT 1530, ANHT 1560, ANHT 1620, ANHT 1670, ANHT 1690, ANHT 1730, ANHT 1990, CMNS 1660, MICR 1680

Required Lab: ANHT 2570L

ANHT 2580 2 credits

Diagnostic Imaging 1 (1,1,2)(L)

This course is a combination of classroom and laboratory sessions that enable students to understand and apply the basic principles of veterinary diagnostic imaging. Hands-on clinical work allows students to become familiar with the proper preparation and positioning of companion (small) animals for routine imaging procedures. The importance of radiation safety is stressed throughout the course.

Prerequisite: A minimum grade of C in the following courses: ANHT 1530, ANHT 1560, ANHT 1620, ANHT 1670, ANHT 1690, ANHT 1730, ANHT 1990, CMNS 1660, MICR 1680. Students must be 18 years of age or have written parental consent.

Required Lab: ANHT 2580L

Required Seminar: ANHT 2580S

ANHT 2590 1 credits

Animal Nursing 3 (1,0,1)(L)

This course is a continuation of technical and patient care skill training acquired in Animal Nursing 1 and 2, with an emphasis on nutrition, bandaging skills, and the care of geriatric and recumbent patients.

Prerequisite: A minimum grade of C in the following courses: ANHT 1530, ANHT 1560, ANHT 1620, ANHT 1670, ANHT 1690, ANHT 1730, ANHT 1990, CMNS 1660, MICR 1680

Required Lab: ANHT 2590L

ANHT 2600 3 credits

Field Work Experience (0,3,0)

This course consists of weekly guest speakers or tours, including an off-campus tour of Vancouver and area during the month of May. Students are responsible for their personal costs incurred during this trip.

Prerequisite: A minimum grade of C in the following courses: ANHT 2090, ANHT 2210, ANHT 2530, ANHT 2540, ANHT 2550, ANHT 2560, ANHT 2570, ANHT 2580, ANHT 2590

ANHT 2620 1 credits

Animal Nursing 4 (1,0,1)(L)

Animal Nursing is a four semester course, in which a variety of aspects in the nursing care of animals are explored, ranging from basic animal restraint to more technical diagnostic and medical procedures. Animal Nursing 4 focusses on external fixation, vaginal cytology, semen collection, necropsy and tissue cytology.

Prerequisite: A minimum grade of C in the following courses: ANHT 2090, ANHT 2210, ANHT 2530, ANHT 2540, ANHT 2550, ANHT 2560, ANHT 2570, ANHT 2580, ANHT 2590

Required Lab: ANHT 2620L

ANHT 2650 1 credits

Large Animal Clinics 2 (0,1,2)(L)

This course is designed as a continuation of ANHT 2550: Large Animal Clinics 1. The emphasis of this course is on basic ranch management and the practice of large animal and wildlife care skills. Laboratory sessions take place at selected ranches in the Kamloops area and at the BC Wildlife Park. Exercises in public speaking are also part of this course.

Prerequisite: A minimum grade of C in the following courses: ANHT 2090, ANHT 2210, ANHT 2530, ANHT 2540, ANHT 2550, ANHT 2560, ANHT 2570, ANHT 2580, ANHT 2590

ANHT 2660 3 credits

Anesthesia and Critical Care for Veterinary Technologists (3,0,3)(L)

This course is a continuation of ANHT 2560: Anesthesia for Veterinary Technologists. Theoretical and practical application allows students to become proficient with anesthesia in small animals, including specialized techniques and fluid therapy. Anesthesia of pediatric, geriatric, traumatized, critically ill, and large animal patients is discussed.

Prerequisite: A minimum grade of C in the following courses: ANHT 2090, ANHT 2210, ANHT 2530, ANHT 2540, ANHT 2550, ANHT 2560, ANHT 2570, ANHT 2580, ANHT 2590

Required Lab: ANHT 2660L

ANHT 2670 2 credits

Surgical Assistance 2 (2,0,3)(L)

This course is a continuation of ANHT 2570: Surgical Assistance 1, and is designed to familiarize students with common veterinary surgical procedures, including dental techniques. The role of the veterinary technologist in preoperative, intraoperative, and postoperative duties, and the nursing care of the surgical patient is discussed.

Prerequisite: A minimum grade of C in the following courses: ANHT 2090, ANHT 2210, ANHT 2530, ANHT 2540, ANHT 2550, ANHT 2560, ANHT 2570, ANHT 2580, ANHT 2590

Required Lab: ANHT 2670L

ANHT 2680 2 credits

Diagnostic Imaging 2 (1,1,2)(L)

This course is a continuation of ANHT 2580: Diagnostic Imaging 1. Students are introduced to the theory and practical application of equine radiographic positioning, technical errors, contrast imaging procedures, formulating technique charts, and the basics of ultrasonography, endoscopy and digital imaging. The importance of radiation safety is stressed throughout the course.

Prerequisite: A minimum grade of C in the following courses: ANHT 2090, ANHT 2210, ANHT 2530, ANHT 2540, ANHT 2550, ANHT 2560, ANHT 2570, ANHT 2580, ANHT 2590. Students must be 18 years of age or have written parental consent.

Required Lab: ANHT 2680L

Required Seminar: ANHT 2680S

ANHT 2690 2 credits

Laboratory and Exotic Animals (1,0,0)(1,0,1)(L)

This course is designed to introduce students to the housing and husbandry needs of common exotic pets and laboratory animal species. Students learn how to handle, sex and restrain the more common species for clinical procedures. Discussion topics include animal research, the ethics of animals used in research and animal welfare.

Prerequisite: A minimum grade of C in the following courses: ANHT 1530, ANHT 1560, ANHT 1620, ANHT 1670, ANHT 1690, ANHT 1730, ANHT 1990, CMNS 1660, MICR 1680

Required Lab: ANHT 2690L

ANHT 2700 1 credits

The Animal Health Technologist and Society (1,0,0)

Using written materials, small group discussion, guest speakers, and case examples, this course enables students to explore issues relevant to practicing animal health technologists. Topics include professional associations, ethical and legal issues, the human-animal bond, animal advocacy, pet loss grief and maximizing employment opportunities.

Prerequisite: A minimum grade of C in the following courses: ANHT 2090, ANHT 2210, ANHT 2530, ANHT 2540, ANHT 2550, ANHT 2560, ANHT 2570, ANHT 2580, ANHT 2590

ANHT 2990 1 credits

Animal Behaviour 4 (1,0,0)

Fourth in the applied Animal Behavior series, this course focuses on the integration of animal behavior into small animal veterinary practice, with an emphasis on the role of the animal health technologist. The course uses a 'problem-based learning' format, whereby some of the presented material is case-based; groups of students research and report on specific cases. Course topics are predominantly related to canines and felines.

Prerequisite: A minimum grade of C in the following courses: ANHT 2090, ANHT 2210, ANHT 2530, ANHT 2540, ANHT 2550, ANHT 2560, ANHT 2570, ANHT 2580, ANHT 2590

ANTH 1210 3 credits

Introduction to Cultural Anthropology (2,1,0)

A general introduction to cultural anthropology. The course is a survey of the main features of nonindustrial societies in various parts of the world. Subjects to be considered are: economy, political organization, kinship and marriage, forms of religious devotion.

Prerequisite: None.

ANTH 2140 3 credits

Canadian Native Peoples (2,1,0)

An introduction to the present situation of Canada's Indians, Metis and Inuit, interpreted on the basis of contemporary and historical political, economic and cultural developments. Major topics include: the Indian Act, the reserve system, land claims, directed culture change, social consequences of paternalism.

Prerequisite: ANTH 1210 recommended but not required

ANTH 2150 3 credits

Cultural Explorations (2,1,0)

An advanced introduction to cultural anthropology, this course examines how anthropologists describe the societies they study, and the conclusions they draw. Case studies to be used may include books as well as ethnographic films depicting the cultural diversity of the modern world.

Prerequisite: ANTH 1210 recommended but not required.

ANTH 2250 3 credits

Sex, Gender and Culture (2,1,0)

A cross cultural survey of the different ways in which a biological condition (sex) is transformed into a cultural status. A central issue concerns the question whether there are 'natural' male and female behaviours that are expressed regardless of local cultural influences.

Prerequisite: ARCH 1110/ANTH 1210 recommended but not required.

ANTH 2600 3 credits

Minorities in the Modern World (2,1,0)

An introduction to the anthropological study of minorities, with special reference to the present position of indigenous peoples around the world. Case studies from North America, Europe, Asia, Russia and Oceania illuminate the concepts of genocide, ethnocide, pluralism and multiculturalism.

Prerequisite: ARCH 1110/ANTH 1210 recommended but not required.

ANTH 3000 6 credits

Current Issues in Cultural Anthropology (3,0,0) or (3,0,0)(3,0,0)

The study of selected areas and communities drawn from around the world with an emphasis on problems of cross- cultural comparison and on theoretical issues of current importance in the discipline.

Prerequisite: ANTH 1210

ANTH 3030 6 credits

The European Orient: Balkans, Russia and Eastern Europe (3,0,0) or (3,0,0)(3,0,0)

A specialized survey of the cultures shaping Central and Eastern Europe including Russia. Primary areas of concern are the interplay between peasant and national culture and between ethnic and political identity.

Prerequisite: Completion of 45 credits (any discipline)

Note: Different culture areas or regions may be selected in subsequent offerings of the course. Same course as POLI 3070

ANTH 3270 3 credits

First Nations Natural Resource Management (2,1,0)

A review of historical and contemporary issues shaping Aboriginal peoples' relationship to their lands and resources and the impact of governmental policies on this relationship. Topics will include the Indian Act, traditional aboriginal views of resource management, treaties, and analysis of current policies on resource management and aboriginal life.

Prerequisite: ANTH 1210

ANTH 3280 3 credits

Indigenous Peoples in Comparative Perspective (3,0,0)

This course takes a cross-cultural comparative approach to the study of contemporary Indigenous Peoples. Indigenous Peoples constitute a diverse range of groups throughout the world. What they have in common is the shared experience of colonization. Recognizing the diversity of Indigenous Peoples throughout the world, this course will explore both those experiences shared between groups, and those unique to local contexts.

Prerequisite: ANTH 1210

ANTH 3390 3 credits

*****Special Topics in Anthropology (2,1,0)**

This is a variable content course intended to provide topics beyond those of regular departmental offerings. The course will be offered from time-to-time, and may make use of the specializations of visiting faculty.

Prerequisite: Completion of 45 credits (any discipline). Check with the department Chairperson regarding prerequisites, as they may vary from offering to offering.

ANTH 4000 3 credits

History of Anthropology (3,0,0)

The development of the major approaches in anthropology in their institutional contexts.

Prerequisite: ANTH 1210 and ARCH 1110 or 2010

ANTH 4010 6 credits

Native Peoples of North America (3,0,0) or (3,0,0)(3,0,0)

Native cultures of the United States and Canada; linguistic and cultural relationships; the culture of reserves and the reserve system in both countries.

Prerequisite: ANTH 1210 or permission of the instructor.

ANTH 4030 6 credits

Field School in East/Central Europe (3,0,0)

This course offers an introduction to the societies and cultures of East/Central Europe by way of a month-long field trip. The itinerary includes rural and urban locations in several countries that lend themselves to an ethnographic examination of the ethnic relations, religions, economies, and politics shaping the buffer zone between the European East and West.

Prerequisite: Permission of Department Chair or Instructor

Note: Same course as POLI 4030 and SOCI 4030

ANTH 4040 3 credits

People and Cultures of the North American Arctic (2,1,0)

This course introduces the North American sub-Arctic, Arctic, and High Arctic as discrete cultural regions. Surveying the historical, ecological and cultural diversity of the Arctic, this course reviews anthropological perspectives on the past and present lives and experiences of indigenous peoples who have made the high latitudes their home for millenia. This course documents patterns of social organisation among Inuit, Dene, and Metis with a secondary focus directed towards recent economic, political, and cultural trends in the region resulting from European contact, colonisation, and political devolution.

Prerequisite: ANTH 1210 and completion of 45 credits (any discipline)

ANTH 4050 3 credits

Indian Reserve Communities (2,1,0)

This course will present Canadian reserve communities as distinct societies. A survey of status Indian reserve communities across Canada, this course chronicles the origin of the numbered reserve system historically by introducing the Indian Act, Registered Indians, and the numbered treaty process. It surveys the variety of reserve communities nationally, as well as documenting present-day reserve conditions from the point of view of social scientists and Native writers alike.

Prerequisite: ANTH 1210 and completion of 45 credits (any discipline)

ANTH 4150 3 credits

Religion and Society (3,0,0)

Comparative study of religious beliefs and practices; relations between religious, social and political institutions; religion as a force for stability as well as change.

Prerequisite: Completion of 45 credits (any discipline)

ANTH 4330 6 credits

Directed Studies (3,0,0) or (3,0,0)(3,0,0)

General reading and/or a research undertaking, with the agreement, and under the supervision, of a Department faculty member selected by the student. No more than 6 credits of Directed Studies may be taken for credit towards a degree.

Prerequisite: Completion of 45 credits (any discipline)

ANTH 4600 3 credits

Cultural Ecology and Evolution (3,0,0)

Social organization in the context of the theoretical approaches of cultural evolution and cultural ecology with particular emphasis on primitive societies: kinship, political organization, warfare, economic organization, peasant societies, religious movements, underdevelopment, and social change.

Prerequisite: ANTH 1210 and completion of 45 credits (any discipline)

APEC 1610 3 credits

Introduction to First Nation Taxation (3,0,0)

Students are provided with an overview of First Nation taxation and how it can be used to improve the investment climate and support economic development on First Nation lands. The role of government in making markets work is explained, focusing primarily on First Nation local revenue authority using the First Nations Fiscal Management Act (FMA). Topics include the role of government in facilitating investment; the concept of property taxation; First Nation property taxation; FMA and institutions; the First Nation Goods and Services Tax (FNGST).

Prerequisite: None.

Note: Students may only receive credit for one of APEC 1610 or APEC 1611

APEC 1620 3 credits

Establishing First Nations Tax Rates and Expenditures (3,0,0)

Students learn how to set First Nation property tax rates through the preparation of a local services budget and how to communicate effectively with council and taxpayers during this process. Topics include setting tax rates and expenditure policy issues; preparation of local revenue budgets; preparation of annual tax rates and expenditure laws; understanding user fees and business occupancy taxes; and communication and notification requirements under the authority of the First Nations Fiscal Management Act (FMA) or s.83 of the Indian Act.

Prerequisite: APEC 1610

APEC 1630 3 credits

Assessment and Assessment Appeal Procedures (3,0,0)

Students examine property markets with a focus on property assessments and assessment appeals in Canada under the authority of the First Nations Fiscal Management Act (FMA) or s. 83 of the Indian Act. Topics include an introduction to valuing land, assessment theory and practice, assessment law and practice, assessment appeals, and an assessment appeal role play.

Prerequisite: APEC 1610

Exclusion: APEC 1631

APEC 1640 3 credits

Administration: Tax Notices, Collection and Enforcement (3,0,0)

Students learn to manage a First Nation and/or local government tax administration system focusing on taxpayer notification and local revenue billing, collection and enforcement. Best practices from systems across Canada are presented along with the regulatory requirements associated with the First Nations Fiscal Management Act (FMA). Significant time is devoted to using the First Nations Tax Commission's (FNTC) specialized Tax Administration System (TAS) for local revenue administration.

Prerequisite: APEC 1610, APEC 1620

APEC 1650 3 credits

Communication, Taxpayer Relations and Dispute Resolutions (3,0,0)

Students examine how to establish a mutually beneficial working relationship between First Nation tax authorities and taxpayers. Topics include communications planning and products; reaching agreement through consensus; taxpayer representation structures and laws; local dispute resolution; and the formal dispute resolution process from theF irst Nations Fiscal Management Act (FMA).

Prerequisite: APEC 1610

Note: Students cannot receive credit for both APEC 1650 and APEC 1651

APEC 1660 3 credits

Service Agreements and Joint Contracts (3,0,0)

Students examine how to develop service agreements and joint contracts for the delivery of services or the construction of infrastructure involving local governments and/or private partners. Topics include service agreements; contracting; service agreement calculations and negotiations; interest-based negotiations; service agreements for additions to reserves (ATR) and treaty land entitlement (TLE) settlements; and a service agreement case study. Students utilize tools developed by the First Nations Tax Commission (FNTC) to assist in service agreement negotiations.

Prerequisite: APEC 1610, APEC 1620

Note: Students cannot receive credit for APEC 1660 and APEC 1661

APEC 1670 3 credits

Development Cost Charge (3,0,0)

Students learn to establish fair and transparent development cost charge (DCC) and service tax (ST) systems for First Nations or local governments under the authority of the First Nations Fiscal Management Act (FMA) and the First Nations Tax Commission (FNTC). These systems are intended to support the financing of infrastructure and service improvements. Topics include options for First Nation community financing infrastructure; calculating rates; developing First Nation DDC and ST laws; implementing First Nation DCC and ST laws; and DCC and ST case studies.

Prerequisite: APEC 1610, APEC 1620

APEC 1680 3 credits

Capital Infrastructure and Debenture Financing (3,0,0)

Students learn how to plan, cost, and finance local government infrastructure projects using long-term debentures in the First Nation Fiscal Management Act (FMA). They also examine the legal, planning and policy requirements established by the First Nation Finance Authority (FNFA), the First Nations Tax Commission (FNTC) and the First Nations Financial Management Board (FMB) as well as best practices in economic, capital and financial planning. Topics include economic infrastructure; economic strategy; integrated capital planning; capital financing and borrowing; borrowing laws and procedures; and a case study in infrastructure financing.

Prerequisite: APEC 1610, APEC 1620

Note: Students cannot receive credit for APEC 1680 and APEC 1681

APEC 2640 3 credits

Residential and Commercial Development on First Nation Lands (3,0,0)

Students examine residential and commercial development on First Nation lands, using the Indian Act, the First Nation Fiscal Management Act (FMA), and the First Nation Land Management Act (FNLMA). Some of the legal, administrative, and financing infrastructure gaps in the Indian Act that inhibit residential and commercial development are highlighted, and strategies to overcome these legal barriers are explored. Topics include investment on First Nation lands; First Nation property rights; land management and development on First Nations lands; and a case study in First Nations development negotiations.

Prerequisite: ECON 1220 or equivalent with a minimum C-

APEC 2650 3 credits

Investment Facilitation on First Nations Lands (3,0,0)

Students study the interests of public and private investors and what can be done to attract investment on First Nation lands. Given that is it four to six times more expensive to facilitate investment for First Nation projects, emphasis is placed on solutions to

reduce investment transaction costs. Topics include transaction costs and economic growth; the legal and administrative framework to facilitate investment; building infrastructure; and creating an investment facilitation work plan.

Prerequisite: ECON 1220 or equivalent with a minimum C-

APEC 2660 3 credits

Development on First Nations Lands (3,0,0)

Students examine the economic and fiscal impacts on First Nations of existing or proposed resource projects within their territories. They also investigate how First Nations can successfully negotiate agreements and mediate disputes so to maximize the benefit of these agreements for their communities. Topics include an introduction to resource economics; fiscal and economic impacts of resource projects; environmental review of resource projects; and resource project interest-based negotiation and dispute resolution. The course incorporates examples and case studies of actual First Nation resource agreements and disputes. It culminates in a First Nation resource project negotiation simulation and role play.

Prerequisite: ECON 1220 or equivalent with a minimum C-

APEC 2670 3 credits

First Nations Fiscal Relationship and Economic Development (3,0,0)

Students examine how current First Nation fiscal relationships limit economic growth and development in their communities and the changes that can be made to current public finance policies and systems to address this concern. They are also introduced to the key knowledge and skills necessary to participate in negotiating a new First Nation fiscal relationship and to help successfully implement it in their communities. Topics include a history of First Nation Fiscal relationship; public finance in Canada; problems with the First Nation fiscal relationship; options to improve the First Nation fiscal relationship; and First Nation and other government public finance and fiscal interests. The capstone of the course is a First Nation fiscal relations negotiation role play.

Prerequisite: ECON 1220 or equivalent with a minimum C

APEC 2700 3 credits

Economic Feasibility and Impact Analysis on First Nations Lands (3,0,0)

Students examine cost-benefit analysis and how it can be used to evaluate the economic feasibility and impact of investments on First Nations lands. Knowledge and skills relating to the time value of money and basic statistical concepts will be developed. Topics include the investment climate and economic strategies; fiscal benefits estimates; estimating economic impacts of investment; cost-benefit analysis fundamentals; and presentation of a cost-benefit assessment.

Prerequisite: ECON 1220 or equivalent with a minimum C-

APNR 1010 3 credits

Data Capture 1 (3,0,0)

During this course students are introduced to observational methods for data capture using surveying equipment. Data capture fundamentals remain regardless of the rapid technological advances in data capturing equipment, acquisition and processing procedures.

Prerequisite: Grade 10 Mathematics, High School Geography preferred

APNR 1020 3 credits

Introduction to Digital Mapping 1 (3,0,0,)

This course offers an introduction to managing and processing geographic information in a digital world with a focus on Indigenous communities (i.e. Reserves). Emphasis will be placed on the nature of geographic information in a digital environment, types of spatial data, coordinate systems, datums, map projections, and performing basic functions in a Geographic Information System (GIS).

Prerequisite: None.

APNR 1030 3 credits

Land Use Planning I: Environmental Assessment (3,0,0)

This course offers an introduction to assessing environmental systems on the land, and identifying potential effects of human activities and developments on environmental media (air, water, soil, groundwater, vegetation and wildlife habitat), with a focus on Indigenous communities.

Emphasis will be placed on sensitivities and potential impacts on soil, surface water, groundwater, vegetation communities and wildlife habitats.

Prerequisite: None.

APNR 1040 3 credits

Land Tenure (3,0,0)

This course introduces the student to the fascinating melange of land tenure systems across Indigenous lands in general, and First Nations Reserves in particular. Emphasis is placed on the legislation that underpins such regimes (and the accompanying parcel-based property rights systems); on establishing and re-establishing parcels pursuant to such regimes; on the links between easily-used rights and socio-economic development; and on how such rights are negotiated, registered and searched.

Prerequisites: APNR 1010 AND APNR 1020

APNR 1060 3 credits

Data Capture 2 (3,0,0)

This course provides an introduction to data capture as it relates to legal and non-legal surveys (records, services & products) with an emphasis on Indigenous communities by building on the knowledge and skill acquired during the Data Capture I course. Some emphasis will also be placed on more modern technologies like Global Satellite Navigation Systems (GNSS).

Prerequisite: APNR 1010

APNR 1070 3 credits

Introduction to Digital Mapping 2 (3,0,0)

This course builds on GIS/Mapping I by expanding on spatial data use in a GIS, and culminates in building a custom community map of the students' own community. Emphasis will be placed on attribute data, creating your own spatial data, aerial imagery, and geographic analysis using Indigenous examples.

Prerequisite: APNR 1020

APNR 1080 3 credits

Land Use Planning II (3,0,0)

This course complements Land Use Planning I â€" Environmental assessment. Planning I focused on the bio-physical aspects of the Reserve land base (i.e. what is the natural environment); Planning II focuses on the socio-cultural aspects of the Reserve land base (i.e. who can do what where). Emphasis is placed on community aspirations and consultation; on linking human activities with appropriate land parcels; on the nexus between land use planning and socio-economic development; and on the benefits of coordinating planning with surrounding/abutting communities.

Prerequisite: APNR 1030

APNR 1090 3 credits

Independent Research Project (3,0,0)

Complete an Independent Research Project focused on a land management issue within your community. This project will apply the range of knowledge and skills acquired from previous courses. Such application will result in a written report that addresses a specific land management issue, outlines the methodology used to address the issue, and will demonstrate how the skills of mapping, data capture and land use planning were applied to this project. In addition, two presentations will be made:

-To community members involved in lands management*

-To the class

Prerequisite: None.

APSC 1200 2 credits

Introduction to Engineering (2,0,0)

This course is an introduction to the engineering profession and to engineering design. Weekly guest speakers and lectures are used to illustrate various aspects of the engineering profession. Each year a design project is selected to contextualize the design portion of the course. Working in teams, students work through the design steps of need assessment, research, analysis, concept selection, detailed design, and reporting to develop thoughtful and realistic solutions.

Prerequisite: Admission to the Engineering Transfer Program

Note: This course is only offered in the Fall semester

ARCH 1100 3 credits

Exploring Archaeology (3,0,0)

Discover the fascinating world of archaeology with this survey of remarkable discoveries and intriguing mysteries as we explore ancient sites and cultures from around the world. Witness the remarkable journey of humanity through ancient technologies, 'lost' civilizations, great explorers, and modern discoveries. Students learn that the multidisciplinary field of archaeology is equal parts Arts and Science, discovery and adventure.

ARCH 1110 3 credits

Human Origins (2,1,0)

An introduction to the anthropological study of human origins. The course addresses the distinction between mythical and scientific explanations of the emergence of animal and human life. It outlines the basic principles of evolution and reviews the major stages of human prehistory. Although some attention is paid to the interplay between biology and culture, the course is designed for social science students who may lack extensive knowledge of biology.

Prerequisite: None.

Note: Students cannot receive credit for ARCH 1110 and ANTH 1110

ARCH 2010 3 credits

Introduction to Archaeology (2,1,0)

An introduction to the discipline of archaeology, including the ways in which archaeologists reconstruct past cultures and lifeways, the development and major discoveries of archaeology, and the relationships between human material remains and human behavior. Students will gain an appreciation of what the past was like, what archaeological data are, and how archaeology is used to answer questions about the human condition.

Prerequisite: None.

Note: Students cannot receive credit for more than one of ARCH 2010, ARCH 1190 and ANTH 1190

ARCH 2160 3 credits

Ancient Civilizations (3,0,0)

This course provides a broad survey of the archaeology of ancient, pre-industrial, Old World, and New World civilizations. The course includes a brief overview of basic theoretical and methodological concepts in archaeology, thus accommodating students with no prior background in archaeology. Major topics of study include the origins of Neolithic farming; urbanism; wealth and power structures, social ranking, and the inevitable rise of the state; early systems of writing; the earliest civilizations of Mesopotamia, Egypt, the Indus Valley, and China; the classical civilizations of the Mediterranean; and New World Central American and Andean civilizations.

Prerequisites: ARCH 1110 and ARCh 2010 are recommended but not required

Note: Students cannot receive credit for both ARCH 2160 and ANTH 2160

ARCH 2190 3 credits

Ancient North Americans (3,0,0)

A survey of the archaeological evidence for prehistoric colonization of North America, the expansion of Paleo- Indian hunters, the adaptations of archaic hunter-foragers to post-Ice Age environments, the origins of farming and village life, and the rise and fall of complex chiefdom societies. The course examines how technological innovations, population growth, natural resources, and social and ideological factors influenced the various cultural developments in different regions of North America.

Prerequisite: ARCH 1110 or ARCH 2010

Note: Students cannot receive credit for both ARCH 2190 and ANTH 2190

ARCH 2230 3 credits

Native Peoples of British Columbia (2,1,0)

A survey of the traditional Indian cultures of British Columbia as known through ethnography and archaeology. Topics will include regional variation and adaptation in economy, technology, language, religion, art, medicine, kinship, and social organization. The contemporary social problems of the native peoples are not part of this course.

Prerequisite: An intro course in Anthropology is recommended

Note: Students cannot receive credit for both ARCH 2230 and ANTH 2230

ARCH 2330 3 credits

Old World Archaeology (3,0,0)

This course offers a broad survey of prehistoric archaeology of the Old World. Through the exploration of archaeological evidence, students will follow the development of human culture, from the earliest material evidence of the Old Stone Age, through the development of increasingly complex and diverse cultures from ancient Africa, Asia, and Europe.

Prerequisite: ARCH 1110 or ARCH 2010

ARCH 3050 6 credits

Theory in Archaeology (2,1,0) or (2,1,0)(2,1,0)

Overview of major theoretical and methodological issues in archaeology, involving a history of archaeological thought, the formulation of research designs, and how archaeology fits into science. The student will gain an understanding of the general characteristics of the archaeological data base, and what paradigms, theories, and methods are used to address archaeological problems in culture, history, settlement, ecology, and technological change.

Prerequisite: ARCH 2010 and any 2000 level ARCH course

ARCH 3060 6 credits

Summer Field Training in Archaeology (3,0,0)

Intensive training in excavation techniques, and interpretation, including mapping procedures, recording preliminary analysis, and reporting. Students will participate in an excavation for the Summer session and will use this field experience as a basis for lectures, discussion, and reports. Lab Fee required.

Prerequisite: ARCH 3050 or permission of the instructor

ARCH 3260 3 credits

Environmental Archaeology (2,2,0)

Interdisciplinary data recovery and methods of analysis from geology, soil sciences, botany, zoology, chemistry, physics, and ecology have resulted in specialized sub-fields in archaeology, including zooarchaeology, paleobotany,

raw material sourcing, geophysical and geomorphic analysis, paleoenvironmental reconstruction, and seasonality studies. Students examine the methods and theories employed by specialists in these fields to reconstruct past environments and explore the relationships between humans and important environmental resources and variables.

Prerequisite: ARCH 1110 or ARCH 2010; any 2000 level ARCH course.

GEOG 1110; GEOG 1120 and GEOL 2050 recommended but not required

ARCH 4060 3 credits

Cultural Resource Management (2,1,0)

Students explore the practical, theoretical, social, and legal issues of managing humanity's cultural resources. Topics include the origins and application of heritage legislation within Canada, the United States, and abroad; illegal trafficking of antiquities; heritage issues in areas of armed conflict; contract archaeology; public archaeology; aboriginal heritage; and avocational archaeological societies.

Prerequisite: ARCH 1110 or 2010, and any 2000 level ARCH course

ARCH 4110 3 credits

*****Prehistory of a Special Area in the New World**

Analysis of the prehistory of a selected New World area, including a summary of the literature and discussion of relevant problems. The course will provide background for students in North, Central, and South America area studies. Typical offerings include the prehistory of Mesoamerica, the Southwest, North America, and the Mayan areas.

Prerequisite: ARCH 3050 or ARCH 4200 or permission of the instructor

Note: Generally taught as companion course to ARCH 3060

Note that students cannot get credit for both ARCH 4110 and ANTH 4110

ARCH 4200 3 or 6 credits

Archaeology of British Columbia (3,0,0)

An advanced study of the prehistoric archaeology of interior and/or coastal British Columbia, including an analysis of the archaeological evidence, and interpretations of prehistoric cultural developments from selected field studies.

Prerequisite: ARCH 2190

Note that students cannot receive credit for both ARCH 4200 and ANTH 4200

ARET 1100 3 credits

Graphical Communication (2,1,2)(L)

This course involves the fundamentals of basic drawing and hand sketching, with emphasis on drawing skills, conventions, techniques, layout and representation theory. This course is available in the Fall semester only.

Prerequisite: Admission to the Architectural & Engineering Technology Program or permission from the department chair

Note: This course is part of a limited enrollment program

Required Lab: ARET 1100L

Required Seminar: ARET 1100S

ARET 1110 2 credits

Computer Aided Design and Drafting 1 (2,0,2)(L)

This course involves the fundamentals of computer aided drafting as an alternative to traditional hand drafting. Utilizing computers and the latest Autodesk software, this course forms the basis for other courses within the Architectural and Engineering Technology program. This course is available in the Fall semester only.

Prerequisite: Admission to the Architectural & Engineering Technology Program or permission from the department chair

Corequisite: ARET 1100

Required Lab: ARET 1110L

Note: This course is part of a limited enrollment program.

ARET 1120 2 credits

Introduction to Architectural Representation (1,1,0)(L)

This course introduces the student to the basics of creating architectural drawings using Autodesk software and elevations. Using the current architectural software, the student creates basic floor plan and associated drawings.

Upon completion of the course, students design a 3D building model and generate the 2D plans required by the construction industry. This course is available in the Fall semester only.

Prerequisite: Admission to the Architectural & Engineering Technology Program or permission from the department chair

Corequisite: ARET 1100, ARET 1110, ARET 1200

Note: This course is part of a limited enrollment program

Required Seminar: ARET 1120S

ARET 1200 3 credits

Materials and Applications 1 - Specifications (3,1,0)(L)

This course introduces students to building materials and methods applied in contemporary building construction. Lectures include an introduction to contract documents (specifications and working drawings), the advantages and limitations of the various types of contracts, the bidding procedure using bid depository regulations, and the types of bonds most currently in use. This course is available in the Fall semester only.

Prerequisite: Admission to the Architectural & Engineering Technology Program or permission from the department chair

Corequisite: ARET 1110

Note: This course is part of a limited enrolment program

Required Seminar: ARET 1200S

ARET 1300 3 credits

Building Technology 1 (3,2,3)(L)

Students are introduced to basic platform framing, commonly used in residential buildings that are regulated under Part 9 (Housing and Small Buildings) of the British Columbia Building Code. This course is available in the winter semester only.

Prerequisite: ARET 1100, ARET 1110, ARET 1120, ARET 1200 or permission from the department chair

Note: This course is part of a limited enrolment program

Required Lab: ARET 1300L

Required Seminar: ARET 1300S

ARET 1400 3 credits

Civil Technology 1 (4,1,2)(L)

This course is an entry level course into the field of Civil Engineering Design and Drafting. The course includes Traverse survey computations, geometric design calculations, area calculations and earthwork calculations. The student will use the latest version of Autodesk's Civil 3D software to produce a subdivision layout comprising of a plan and profile drawing with horizontal and vertical alignments and cross-sections.

Prerequisites: Admission to the Architectural and Engineering Technology program or written consent of the Chairperson

Required Lab: ARET 1400L

Required Seminar: ARET 1400S

ARET 1410 3 credits

Construction Surveying (60 hours)(L)

Students are introduced to the basic techniques of construction surveying. This course has a compressed schedule and is offered at the end of the winter semester.

Prerequisite: ARET 1400 or permission from the department chair

Note: This course involves outdoor field work. This course is part of a limited enrolment program

Required Seminar: ARET 1410S

ARET 1500 2 credits

Building Electrical Design (2,0,1)(L)

This fundamental course in building electrical systems design involves a detailed analysis of the Canadian Electrical Code pertinent to residential and/or multi-residential building electrical distribution systems, electrical engineering design practices, and electrical design drawing production. During the course, students interpret electrical code rules and apply the requirements defined by those rules, demonstrate good engineering practice in the development of a residential and/or multi-residential building electrical design, and create electrical working drawings. This course is available in the Fall Semester only.

Prerequisite: Admission to the Architectural & Engineering Technology Program or permission from the department chair

Corequisite: ARET 1100, ARET 1110

Note: This course is part of a limited enrolment program

Required Lab: ARET 1500L

ARET 1510 3 credits

Building Lighting Design (3,0,0)

This course involves a detailed analysis of the factors considered in the selection of light sources and equipment through the utilization of the Illuminating Engineering Society of North America (IESNA) calculation methods and engineering practices. In addition, the fundamentals of the biology of sight and the psychology of colour as it pertains to the development of a building lighting system is discussed. Students determine the illumination requirements of a building through the utilization of IESNA calculation methods, apply the building illumination requirements utilizing engineering practices, develop a commercial building lighting system design, and create a commercial building lighting system working drawing. This course is available in the winter Semester only.

Prerequisite: ARET 1100, ARET 1120, ARET 1500 or permission from the department chair

Note: This course is part of a limited enrolment program

ARET 2100 2 credits

Computer Aided Design and Drafting 2 (2,0,2)(L)

Upon completion, successful students have a working knowledge of OLE, menu customization, attribute extraction, importing and exporting different file formats, external reference files, the creation of 3D surface and solid models, and the extraction of orthographic views from solid models. This course is available after the winter semester.

Prerequisite: ARET 1110 or permission from the department chairperson

Note: This course is part of a limited enrolment program

Required Lab: ARET 2100L

ARET 2120 3 credits

Building Information Technology (2,3,0)(L)

This course is an introduction to Revit Architecture. Students learn the techniques for the mass modeling of a building. The building information model is then developed into a complete set of architectural working drawings. The building model may also be used for construction planning, conflict detection, fabrication and sustainable design. Using knowledge obtained in the first year of the program, successful students are able to develop the building model components including walls, roofs, floors, slabs, railings and fences, as well as customizing families for REVIT software. Presentation techniques, details, and annotation of plans and details are also discussed. This course is only offered in the winter semester.

Prerequisite: ARET 1110, ARET 1120 and ARET 1300 or permission of the department chairperson

Note: This course is part of a limited enrolment program

Required Seminar: ARET 2120S

ARET 2200 3 credits

Materials and Applications 2 - Estimating (2,1,0)(L)

This course provides the fundamentals of construction estimating. Students apply traditional estimating material takeoff procedures, analyze the concepts of unit pricing and productivity, and estimate material and labour costs utilizing traditional estimating procedures. On completion of this course, successful students are able to interpret the information provided on an architectural drawing set and, from that information, generate a material takeoff and a material and labour cost estimate. This course is only available in the Fall Semester.

Prerequisite: ARET 1200 and ARET 1300 or permission from the department chair

Note: This course is part of a limited enrolment program

Required Seminar: ARET 2200S

ARET 2210 3 credits

Construction Management (2,1,0)

This course involves the fundamental aspects of construction management, including on-site management and inspection, construction safety, construction laws and labour relations, contract and construction administration, and the planning, scheduling, and controlling of construction projects.

Prerequisite: ARET 1200 or permission from the department chair

Note: This course is part of a limited enrolment program

Required Seminar: ARET 2210S

ARET 2220 1 credits

Applied Research Project (0,1,0)

This seminar course may be used as an extension to one of ARET 1300, ARET 2400 or ARET 2500 to support the completion of the Applied Research Project.

In the seminar, students focus their research toward specific applications and implementations, and prepare to develop their final conclusions and report.

Prerequisite: CMNS 1850

Note: This course is part of a limited enrolment program

ARET 2300 3 credits
Building Regulations (2,1,0)
This course provides students with an overview of the British Columbia Building Code, with in-depth analysis of Part 3 Fire Protection, Occupant Safety and Accessibility, and Part 5 Environmental Separation. In addition, students research common municipal zoning by-law requirements, in reference to Kamloops Zoning By-law No. 5-1-200 by-laws. This course is offered in the winter semester only.

Prerequisite: ARET 1300 or permission from the department chairperson

Note: This course is part of a limited enrolment program

Required Seminar: ARET 2300S

ARET 2400 3 credits
Site Planning and Development (3,0,2)(L)
This course provides an introduction to the land development process and focuses on specific issues related to site planning, organization and circulation. The connection between land use and transportation is explored and methods to assess on-site and off-site transportation requirements are introduced. The course includes planning concepts, site planning principles, sustainable site design principles, an application study of the Kamloops Zoning Bylaw, trip generation calculation, site organization and layout, parking layout, site amenities and landscaping. This course is available in the winter semester only.

Prerequisite: ARET 1400, ARET1410 or permission from the department chairperson

Note: This course is part of a limited enrolment program

Required Lab: ARET 2400L

ARET 2410 3 credits
Civil Technology 2 (3,0,2)(L)
This course builds on the Civil Technology 1 course and expands the student's knowledge of Civil Engineering Design and Drafting. The course focuses on the geometric design of roads and highways and uses criteria and procedures developed by the Transportation Association of Canada and illustrated in the Geometric Design Guide for Canadian Roads as its foundation.

Prerequisite: ARET 1400 or permission of the Chair

Required Lab: ARET 2410L

ARET 2500 3 credits
Building Plumbing Design (3,0,2)(L)
This course provides a detailed analysis of the B.C. Plumbing Code, the Canadian Gas Code, plumbing engineering practices, plumbing design, and drawing production. Students create sanitary, storm, domestic water distribution, and natural gas system designs, and apply those designs to the creation of a plumbing working drawing for a commercial building. This course is only available in the Fall Semester.

Prerequisite: ARET 1100, ARET 1110, ARET 1120, ARET 1200, ARET 1300 or permission of the department chair person

Note: This course is part of a limited enrolment program

Required Lab: ARET 2500L

ARET 2600 3 credits
Statics and Strength of Materials (5,0,0)
This design course is intended to familiarize students with the concepts of static equilibrium and strength of materials. The course includes force analysis of trusses and frames, centroids, moments of inertia, and shear force and bending moment diagrams. Students examine the stress and strain effects of axial, torsional, bending, and shear forces. The emphasis of the course is on problem solving. Students demonstrate the application of the principles of statics and strength of materials as applied to basic structural and mechanical design problems. This course is available in the winter semester only.

Prerequisite: MATH 1540 (or MATH 1140), MATH 1640 (or MATH 1240), PHYS 1510, or permission from the chairperson

Corequisite: PHYS 1610

Note: This course is part of a limited enrolment program

ARET 3300 3 credits
Building Design (2,1,1)(L)
This course provides students with the basic tools and appreciation of building design, and involves studies of aesthetic principles and basic space planning. The term project consists of preliminary design drawings for a moderate-sized commercial, institutional or assembly type building. This project forms the basis for a more detailed partial set of working drawings to be developed in ARET 3310: Building Technology 2. This course is available in the Fall semester only.

Prerequisite: ARET 1100, ARET 1110, ARET 1300, or permission from the department chairperson

Note: This course is part of a limited enrolment program

Required Lab: ARET 3300L

Required Seminar: ARET 3300S

ARET 3310 3 credits
Building Technology 2 (3,2,1)(L)
This course is a continuation of ARET 3300 and advances students' knowledge of construction systems commonly used in multi-storey commercial, institutional or multi-residential buildings that are regulated under Parts 3 and 5 of the British Columbia Building Code. This course is available in the winter semester only.

Prerequisite: ARET 1300, ARET 2300, ARET 3300, or permission of the department chairperson

Note: This course is part of a limited enrolment program

Required Lab: ARET 3310L

Required Seminar: ARET 3310S

ARET 3400 3 credits
Fluid Mechanics (4,0,0)
Students analyze fluid mechanics including fluid statics, energy concepts in fluid dynamics, fluid flow in pipes, pump selection and open channel flow. The course includes an introduction to municipal service design. Hydrologic concepts are introduced and the rational method is applied to storm sewer design. This course is available in the Fall semester only.

Prerequisite: MATH 1540 (or MATH 1140), MATH 1640 (or MATH 1240), PHYS 1510, PHYS 1610, ARET 2600, or permission of the chairperson

Note: This course is part of a limited enrolment program

ARET 3410 3 credits
Sustainable Site Planning and Development (3,0,2)(L)
This course will provide an introduction to site planning and the land development process and will focus specifically on issues related to site planning, organization and circulation. The connection between land use, regulation and transportation will be explored. The course will include planning concepts, site planning principles, sustainable site design principles, an application study of the Kamloops Zoning Bylaw, site organization and layout, parking layout, site amenities and landscaping.

Prerequisite: ARET 2410 or permission of the Chair

Required Lab: ARET 3410L

ARET 3500 3 credits
Building Services Theory (3,1,1)(L)
Students are offered the fundamentals of thermodynamics pertaining to building component assemblies, an analysis of the American Society of Heating Refrigerating and Air-Conditioning Engineers (ASHRAE) heat transfer calculation methods, an analysis of the ASHRAE fenestration calculation process, and psychrometrics. The fundamentals of hydraulic and/or pneumatic system theory and design are also analyzed. Students demonstrate competency in heat transfer, fenestration, and psychrometric calculation processes as defined by ASHRAE. The course also provides opportunities for students to apply their knowledge of design procedures for developing a hydraulic system design and the creation of a hydraulic power drawing, while utilizing hydraulic engineering representation standards. This course is only available in the Fall Semester.

Prerequisite: ARET 1110, MATH 1540, PHYS 1610 or permission from the department chairperson

Note: This course is part of a limited enrolment program

Required Lab: ARET 3500L

Required Seminar: ARET 3500S

ARET 3510 3 credits
Building HVAC Design (4,0,3)(L)
This course builds on the acquired knowledge in ARET 3500 with a further analysis of heating, ventilation, and air-conditioning (HVAC) building systems and system applications.Students explore the fundamentals of HVAC system components, including an investigation of the methods of the review and selection of HVAC equipment, and a detailed analysis of sizing ductwork and mechanical heating piping. In addition, students examine HVAC system representation utilizing current engineering practices in system drawing creation. Upon completion, students demonstrate competency in commercial building HVAC system design, equipment specification writing, control theory, and creation of a HVAC working drawing to engineering representation practices and standards. This course is only available in the winter semester.

Prerequisite: ARET 1100, ARET 1110, ARET 3400, ARET 3500 or permission of the department chairperson

Note: This course is part of a limited enrolment program

Required Lab: ARET 3510L

ARET 3600 3 credits
Structural Analysis (3,0,0)
This course offers instruction in structural loads and

structural analysis, and includes a review of statics and strength of materials, load path, arches and cable structures. Students explore the concept of bending and shear stresses, solve statically indeterminate beams using both the method of consistent displacements and the three-moment equation, and analyze statically indeterminate frames using moment distribution. Students also learn Part 4 of the National Building Code of Canada. This course is available in the Fall semester only.

Prerequisite: MATH 1540 (or MATH 1140), MATH 1640 (or MATH 1240), PHYS 1510, PHYS 1610, ARET 2600, or permission from the department chairperson

Note: This course is part of a limited enrolment program

ARET 3610 3 credits

Steel Design (4,0,0)

This is a design course with major emphasis on the design and behaviour of steel structures. Students explore the selection of open web steel joists, the design of structural steel trusses, purlins, beams, girders, girts, pin-ended columns, beam columns, bracing, the design of bolted connections, base plate design, and welded connections. This course is offered in the winter semester only.

Prerequisite: ARET 3600 or permission of the department chairperson

Note: This course is part of a limited enrolment program

ARET 3620 3 credits

Wood Design (3,0,0)

This course offers an analysis in the design and behaviour of wood structures. Students explore the design of timber trusses, purlins, beams, girders, pin-ended columns, beam-columns and bracing using sawn lumber, plywood, glulam and manufactured products. The course also includes a study of connection design using nails, bolts, lag screws and timber rivets. This course is offered in the Fall semester only.

Prerequisite: ARET 2600, MATH 1540 (or MATH 1140), MATH 1640 (or MATH 1240), PHYS 1510, PHYS 1610, or permission of the department chairperson

Corequisite: ARET 3600

Note: This course is part of a limited enrolment program

ARET 3630 3 credits

Reinforced Concrete Design (5,0,0)

This course instructs students in the design of reinforced concrete structures. Students explore the design of reinforced concrete beams, T-beams, columns, walls, footings, and retaining walls. Students also examine various methods of forming concrete beams, slabs, columns, walls, footings and detailing of reinforced concrete. This course is offered in the winter semester only.

Prerequisite: ARET 3600 or permission of the department chairperson.

Note: This course is part of a limited enrolment program

ARET 4100 2 credits

Energy Modeling (2,0,3)(L)

This course introduces the student to energy modeling of building systems using latest versions of freely available software. During the course the student will determine the energy consumption for new and existing buildings and will evaluate the effectiveness of energy conservation measures when applied to new and existing buildings.

Prerequisite: ARET 3550 or permission of the Chair

Required Lab: ARET 4100L

ARET 4110 2 credits

Green Building Rating Systems (2,0,2)(L)

This course will focus on the principles of sustainable design relating to building structures. Various green building rating systems will be reviewed and assessed. An appropriate green building rating system will be applied to the term project to determine the level of sustainability. Case studies and relevant examples will be examined.

Prerequisite: Admission to 4th year of the Bachelor of Building Science Degree program

Required Lab: ARET 4110L

ARET 4300 3 credits

Architectural and Planning Systems 1 (2,2,2)(L)

Students will be involved in master planning and schematic architectural design of a mixed-use development. The design project will comply with the current building codes and zoning regulations. Students will create presentation documents, coordinate with other engineering disciplines and incorporate sustainable design principles.

Prerequisite: Admission to 4th year of the Bachelor of Building Science Degree program

Required Lab: ARET 4300L

Required Seminar: ARET 4300S

ARET 4310 3 credits

Architectural and Planning Systems 2 (2,2,2)(L)

The student will be involved in design development and construction documents for the undergraduate design project. Students will coordinate the engineering consultants while ensuring compliance with current building codes and zoning regulations. Students will be expected to develop design details with a focus on rigorous building envelope practices. Green Building rating systems will guide the overall development of the design details. This course will feature industry professionals working in collaboration with faculty and students to further enhance building integration methods.

Prerequisite: ARET 4300

Corequisite: ARET 4510, ARET 4610

Required Lab: ARET 4310L

Required Seminar: ARET 4310S

ARET 4500 2 credits

Building Systems 1 (2,0,2)(L)

This course is an advanced study of the processes, techniques, and tools involved in an energy audit of building systems. Energy conservation measures (ECM) applicable to electrical, lighting, and HVAC will be covered in detail.

Prerequisite: ARET 3510
Corequisite: ARET 4300, ARET 4600
Required Lab: ARET 4500L

ARET 4510 2 credits

Building Systems 2 (2,0,2)(L)

This course is an advanced study of commonly used sustainable energy technologies in building systems: photovoltaic technology, ground-source heat pumps, and wind turbine systems. Students will be taught the basics of design applications for grid-connected and standalone PhotoVoltaic (PV) systems.

Prerequisite: ARET 4500

Required Lab: ARET 4510L

ARET 4600 2 credits

Civil Structural 1 (2,0,2)(L)

This course builds on prerequisite courses and provides the student with an understanding of site selection processes and considerations. The successful student will be able to make informed decisions on building site selection and site preparation, foundation design criteria, building structural grids and support systems location and design.

Prerequisite: ARET 3410, ARET 3610, ARET 3620, ARET 3630

Required Lab: ARET 4600L

ARET 4610 2 credits

Civil Structural 2 (2,0,2)(L)

This course is an in depth examination of building structural systems, modeling, loads and analysis. This course examines in detail various structural elements and their load transfer mechanisms for preparation and modeling in structural analysis software.

Prerequisite: ARET 4600

Required Lab: ARET 4610L

ARTS 3000 1 credits

Arts Program and Career Planning (1,0,0)

This course introduces best practices for student success in the Faculty of Arts, including instruction in program planning and research and study methods. This introduction will be followed by the exploration of two post-baccalaureate options: graduate school and career planning.
Prerequisite: Admission to the Bachelor of Arts program or 24 credits toward the Bachelor of Arts Degree

ASET 0200

Community Networking 1 (55 hours)

Community Networking 1 is course content targeted at the specific development of awareness and application of appropriate and effective employability skills and community resources. Guest speakers present informational content on various workplace related topics in several different media: video, audio, power point, etc. Content learning and coverage is specific and relative to workplace topics.
Prerequisite: Admission to Level 1 of the Work Skills Training (WST) Program

ASET 0210

Community Networking 2 (50 hours)

Community Networking 2 is a continuation of Community Networking 1. Students explore community resources and their application to their employability. Guest speakers present informational content on various workplace related topics in several different media: video, audio, power point, etc.
Prequisite: Admission to Level 2 of the Work Skills Training (WST) Program

ASET 0620

Communications 1 (180 hours)

Communications 1 is wide ranging interpersonal communications skills content that covers basic interpersonal skills training and application inclusive of: listening, responding, problem solving, stress management and assertiveness skills. Content focuses on effective and appropriate communications skills in the work place environment. Motivation, initiative, and comprehension, specific to the workplace are also covered. Students are challenged to engage in practical hands-on role play, interactive exercises, self directed content and large group discussion format. Active participation and flexibility are required for student success.

Prerequisite: Admission to Level 1 of the Work Skills Training (WST) Program

ASET 0630

Communications 2 (130 hours)

Communications 2 is a continuation of Communications 1 - wide ranging interpersonal skills training content which covers basic skills inclusive of the following: listening, responding, assertiveness skills, problem solving, anger management, conflict resolution, motivation, initiative, stress reduction and management. Students will continue to be challenged to learn, improve and master effective and appropriate communication skills specific to the work place environment. Students will engage in practical, hands-on and interactive content and application inclusive of video and audio presentations and exercises. Students will continue to work and learn with self directed content, individual and group projects and also with a large group discussion format.

Prerequisite: Admission to Level 2 of the Work Skills Training (WST) Program

ASET 0910

Workplace Numeracy and Literacy 1 (110 hours)

Workplace Numeracy and Literacy 1 is an introduction and review of basic functional literacy skills specifically relative to the workplace environment. Students work from an education plan, beginning at their individual functioning and skill level with the specific goals of improving and demonstrating progressive improvement in functional and demonstrated literacy. Topics covered include money management (budgeting and personal finance), reading and following directions, basic letter writing skills, note and message taking, workplace and personal vocabulary enhancement and basic calculator usage.

Prerequisite: Admission to Level 1 of the Work Skills Training (WST) Program

ASET 0920

Workplace Numeracy and Literacy 2 (120 hours)

Workplace Numeracy and Literacy 2 is a continuation of Workplace Numeracy and Literacy 1. The course builds on competency levels of students who continue to work to improve functional and demonstrated literacy skills. Topics include money management skills (budgeting, handling money), measurement (metric system), reading and following directions, taking messages, simple letter writing in preparation for resume writing, work and personal vocabulary enhancement and effective calculator usage.

Prerequisite: Admission to Level 2 of the Work Skills Training (WST) Program

ASET 0960

Computing 1 (60 hours)

Computing 1 introduces students to basic computer terminology, technology, and usage.

Prerequisite: Admission to Level 1 of the Work Skills Training (WST) Program

ASET 0970

Computing 2 (60 hours)

Computing 2 builds on skills developed in Computing 1. Students improve keyboarding skills and are introduced to other software as appropriate (database, spreadsheet, desktop publishing).

Prerequisite: Admission to Level 2 of the Work Skills Training (WST) Program

ASHS 4610 2 credits

Client Centered Approach to Asthma (2,0,0)

A post-graduate certificate for health care professionals with an interest in the management of asthma. Graduates receive an Asthma Educators' Certificate.

Through a collaborative partnership with the University of Alberta and the Alberta Asthma Centre, TRU offers this multidisciplinary, CNRC-approved, online, asthma educators' program. The program gives students the necessary background to optimally educate clients with asthma in prevention, health promotion and disease selfmanagement. Graduates will be eligible to sit the CNRC exam for national certification as an asthma educator.

Prerequisite: 2 year diploma or certificate from a recognized health care field as defined by CNRC (Canadian Network for Respiratory Care)

ASHS 4620 2 credits

Concepts in Asthma (2,0,0)

A post-graduate certificate for health care professionals with an interest in the management of asthma. Graduates receive an Asthma Educators' Certificate.

ASHS 4630 2 credits

Asthma Management Planning (2,0,0)

In Part 1 of this course, you will assess the availability and quality of asthma education resources. You will learn about the steps involved in developing an asthma support/education plan for various situations. You will experience, first-hand, the barriers a client faces in following daily disease monitoring plans. You will conduct a videotaped client interview and take a complete client history. The information you gather in the face-to-face interview and in the staged-case will become the basis of the care plans that you develop for each client. You will also have another opportunity to pursue an asthma-related topic in your professional area of interest and share your completed project with other course participants. In Part 2, through case scenarios, the staged-case and your final, face-to-face videotaped client interview, you will use the collected client information and monitoring data to develop working asthma action plans. You will conduct follow-up visits on two clients in order to evaluate the appropriateness of a client's self-management strategies and to make necessary adjustments to care and action plans. Various asthma topics will be discussed and you will have an opportunity to pose questions about current clinical trends in treatment to an on-line content expert. Using the community support/education plan developed in Part 1 of this course, you will deliver and videotape your public teaching session. You will also have another opportunity to pursue an asthma-related topic in your professional area of interest and share your completed project with other course participants.

ASHS 4710 3 credits

Client-Centred Approach to Chronic Obstructive Pulmonary Disease Care (3,0,0)

ASHS 4710 Client-Centered Approach to COPD Care is the first of two courses comprising the online COPD educators program. This course focuses primarily on the knowledge and skills utilized by health care professionals to establish good rapport and lay the foundation for a therapeutic client/professional relationship at the bedside, in a rehabilitation clinic or in a clients home.

Prerequisite: It is highly recommended that the applicant have a minimum of a 2 year diploma or degree in a health care profession or equivalent experience

ASHS 4720 3 credits

Concepts in the Management of Chronic Obstructive Pulmonary Disease (3,0,0)

Fourth in a series for the Certified Respiratory Educator Program, this course provides participants with the theoretical knowledge and abilities to effectively assess, plan, implement, manage, and evaluate educational programs that support improved quality of life for clients with COPD. The course is intended to be a natural progression for participants who have completed a CNRC-approved Asthma Educator Program since clients presenting with a combination of Asthma and COPD are commonly seen clinically. Participants perform a client interview, practice strategies for critically reviewing research papers, and demonstrate breathing and relaxation teaching techniques in a video-recorded session. An online midterm and final exam is scheduled within this course. Upon completion, participants can sit the Certified Respiratory Educator (CRE) National Certification Exam, offered June and November, annually.

ASTR 1140 3 credits

Introductory Astronomy: The Solar System (3,0,0)

This is a general interest introductory course on the history of astronomy and the solar system, and is intended for non-science majors. Topics include: telescopes and observing the night sky, ancient astronomy, space exploration, the Earth/Moon system, formation and evolution of the solar system, the planets, minor members of the solar system and the Sun.

Prerequisite: None.

Note: Students cannot receive credit for both ASTR 1130 and ASTR 1140

ASTR 1150 3 credits

Introductory Astronomy: Stars and Galaxies (3,0,0)

This is a general interest introductory course on the night sky, stars and galaxies, and is intended for non-science majors. Topics include: telescopes and observing the night sky, radiation and spectra, stellar properties and evolution, black holes, the Milky Way and other galaxies and cosmology.

ASTR 3300 3 credits

Topics in Astrophysics (3,0,3*)

This course presents selected topics in stellar and galactic astrophysics at a level suitable for upper level science students. Topics include telescopes, observing techniques and data reduction, stellar properties, stellar evolution, galactic kinematics and dynamics, and external galaxies. A three-hour laboratory takes place every other week, and students use the campus observatory on a regular basis.

Prerequisite: PHYS 1150, 1250 or PHYS 1100/1200, MATH 1130/1230 or MATH 1140/1240, MATH 2110

Required Lab: ASTR 3300L

ASUR 1010 2 credits

Introductory Residency Lab (2,0,0)(L)

During this one-week residency, students become familiar with the educational technologies used in the program and are required to demonstrate standard ranch safe operating procedures. Participants tour a variety of ranch sites in the Cariboo-Chilcotin region and explore the historical issues that have shaped the ranching industry. Students discuss the challenges and opportunities that ranchers face in building resilient ranching operations.

Prerequisite: Admission to the Applied Sustainable Ranching program. Individual courses may be taken by non-program students where capacity exists and with instructor permission.

ASUR 1020 10 credits

Sustainable Business Enterprise (10,0,0)

Students build a sustainable business strategy for their ranch, including a strategic marketing and human resource management plan. They also develop skills in enterprise costing, preparing budget projections and management of financial statements. In addition, students explore governance frameworks, government programs, and key success factors for farm/life balance, succession planning, communication, conflict resolution, and crisis management.

Prerequisite: Admission to the Applied Sustainable Ranching program. Individual courses may be taken by non-program students where capacity exists and with instructor permission.

Required Seminar: ASUR 1020S

ASUR 1030 10 credits

Environmentally Sustainable Ranching (7,3,0,20)

Students explore considerations and methodology for developing an environmentally sustainable ranch operation. Students develop management techniques to address soil fertility and soil health, riparian and watershed systems, wildlife and predator interactions, and urban and agriculture land interfaces. An appreciation for traditional uses of land by Aboriginal peoples and the legal requirements surrounding traditional-use sites is examined. Students create grazing management plans that demonstrate an appreciation for the importance of biodiversity in a healthy landscape and exemplify pasture stewardship principles for a variety of ecosystems.

Prerequisite: Admission to the Applied Sustainable Ranching program. Individual courses may be taken by non-program students where capacity exists and with instructor permission.

Required Seminar: ASUR 1030S

ASUR 1040 10 credits

Skill Development and Diversification (10,0,0)

In this skills-based course, students explore a variety of techniques commonly used in ranch operations. Students apply skills related to humane animal care, stockmanship and dog training, equipment preventative maintenance, safe operating procedures, and fencing techniques. Additionally, students examine opportunities for diversification, including key success factors and production and income benchmarks for a number of alternative agriculture enterprises.

Prerequisite: Admission to the Applied Sustainable Ranching program. Individual courses may be taken by non-program students where capacity exists and with instructor permission.

ASUR 2010 6 credits

Beef Production (10,0,0,4)

Students develop skills related to beef cattle nutrition. Genetic parameters, finishing, processing, yield, product costing, and pricing will be explored. Students then create a herd-health, parasite prevention and marketing program specific to the beef enterprise on their ranch.

Prerequisite: Admission to the Applied Sustainable Ranching program. Individual courses may be taken by non-program students where capacity exists and with instructor permission.

ASUR 2020 6 credits

Sheep Production (10,0,0,4)

Students develop skills related to sheep nutrition and grazing management. Genetic diversity, finishing, processing, yield, product costing, and pricing will be explored. Students then create a flock-health, parasite prevention and marketing program specific to the sheep enterprise on their ranch.

Prerequisite: Admission to the Applied Sustainable Ranching program. Individual courses may be taken by non-program students where capacity exists and with instructor permission.

ASUR 2030 5 credits

Winter Feed Production (4,0,0,13)

Students develop skills related to winter feed management for their farm/ranch enterprise. Use of equipment, selection of seed and fertilizer, irrigation management, and best practices in forage harvesting are examined. Students create a marketing plan for their hay sales operation complete with product costing and pricing.

Prerequisite: This program uses a part-time, blended, block delivery combining face to face theory and labs, along with technology enhanced self-study, group work at a distance, while the field work is accomplished while on their ranch. Individual courses may be taken by non-program students where capacity exists and with instructor permission.

ASUR 2040 5 credits

Soft Adventure and Agri-Tourism (4,0,0,13)

Students explore the soft adventure and agri-tourism industry at a global and local level. Historical, geographical and cultural contexts will be examined in relation to the development of produce and service opportunities. Students use strategic planning, competitive strategy and information technology tools to design a soft-adventure and agri-tourism marketing plan for their ranch.

Prerequisite: Admission to the Applied Sustainable Ranching program. Individual courses may be taken by non-program students where capacity exists and with instructor permission.

ASUR 2050 6 credits

Sustainable Ranching Final Project (12,0,0,180)

Students complete a business and five year financial plan for the entire ranch operation using existing or virtual ranch/farm lands that includes the following components:

1. Strategic plan
2. Human resource management plan
3. Operations management plan for each of the enterprises
4. Marketing plan for each of the enterprises
5. Environmental and range use plan
6. Financial projections including net-worth, cash flow, and income statements
7. Capital improvement and finance plan

Prerequisite: Admission to the Applied Sustainable Ranching program. Individual courses may be taken by non-program students where capacity exists and with instructor permission.

AUTO 1500

Auto Service Technician Foundation (900 hours)

This foundation course is designed for those individuals wishing to become Automotive Service Technicians. In it students will learn to examine, test and repair the parts and systems on cars and light trucks. Students will also learn how to use computerized diagnostic equipment to test, adjust and repair key vehicle components such as engines, steering systems, braking systems, drive trains, vehicle suspensions and electrical systems.

Prerequisite: Completion of Grade 10 with Grade 10 Math and English (Grade 12 with Grade 11 Math, Physics and English recommended). Acceptable score on the entry assessment test.

AUTO 1900

Automotive Sampler (120 hours)

This course is a sampler of the Automotive trade based on the Automotive Service Technician Foundation Program Outline from the Industry Training Authority of BC. Students will gain familiarity with the safe use of tools and other equipment regularly used by Auto Service Techs, as well as gain familiarity with materials and processes used in the Trade. The emphasis of this course is on developing practical, hands-on automotive and mechanical skills.

Prerequisite: Completion of Grade 10

AUTO 2000

Automotive Service Technician Apprentice Level 1 (210 hours)

Students are introduced to theory and gain hands-on shop experience in the following topics: workplace safety; employability skills; tools and equipment; general automotive maintenance; general automotive practices; basic electrical systems; and brake, steering and suspension systems.

AUTO 3000
Automotive Service Technician Apprentice Level 2 (175 hours)
Students are introduced to theory and gain hands-on shop experience in the following topics: advanced electrical systems; heating, ventilation and air conditioning systems; engines; engine support systems; and hybrid vehicle safety.

Prerequisite: AUTO 2000 - Auto Service Technician Apprentice 1

AUTO 4000
Automotive Service Technician Apprentice Level 3 (210 hours)
Students are introduced to theory and gain hands-on shop experience in the following topics: electrical and electronic systems; fuel delivery systems; electronic ignition systems, engine management systems; and emission control systems.

Prerequisite: Automotive Service Technician 2 BC Certificate of Qualification or documentation of credit for Automotive Service Technician Level 2 from a Canadian jurisdiction

AUTO 5000
Automotive Service Technician Apprentice Level 4 (180 hours)
Students are introduced to theory and gain hands-on shop experience in the following topics: clutch systems; manual transmissions; automatic transmissions; drive lines; all wheel and four wheel drive systems; and hybrid drive line technology.

Prerequisite: Automotive Service Technician 3 BC Certificate of Qualification or documentation of credit for Automotive Service Technician Level 3 from a Canadian jurisdiction

AWCP 0500
Animal Care
Students delve into the areas of animal anatomy, physiology, and the handling of animals often seen in an animal care facility. Topics include birds and wild animals, breed identification, animal disease, small animal nutrition, dog and cat first aid, microchipping, immunology, euthanasia, cleaning and disinfection, husbandry of rabbits and pocket pets, large animal handling and disease, avian nutrition, immunology and shelter enrichment. Videos produced at TRU, and included in the course package, demonstrate many of the animal handling techniques discussed in this course.

AWCP 0510
Safety in the Workplace
Students discuss safety issues, such as zoonotic disease, chemicals, environmental issues, WHMIS standards, and disposal of biomedical wastes. The course is designed to promote safety of the animal welfare person and their animal charges, and to provide education on the legal requirements surrounding the storage and handling of chemical or hazardous substances.

AWCP 520
Humane Education
Students explore a wide range of humane issues, such as the history of the humane movement, violence prevention against animals, the link between animal and child abuse, teaching responsible pet care, building empathy, teaching controversial subjects, and how to build a humane program and network within a shelter. Students also discuss animals in therapeutic programs.

AWCP 0530
Small Animal Care
Students delve into the study of animal anatomy, physiology, and the practice of handling animals often seen in an animal care facility. Topics include birds and wild animals, breed identification, animal disease, small animal nutrition, dog and cat first aid, microchipping, immunology, euthanasia, cleaning and disinfection, and the husbandry of rabbits and pocket pets. Videos produced at TRU, and included in the course package, demonstrate many of the animal handling techniques discussed in this course.

AWCP 0540
Large Animal Care
Students build on the knowledge acquired from AWCP 0500: Animal Care (module 0100). Topics include large animal and wildlife handling and first aid. Immunology and avian nutrition are discussed in the supplied notes and DVDs, and animal diseases are explored in depth using a body systems approach. Students also consider the enrichment of the lives of shelter animals, and how they can be trained to be more adoptable.

AWCP 0550
Humane Education - Advanced
This course is a continuation of AWCP 0520: Humane Education (module 0160). Topics include establishing a humane education program within a shelter, exploring animal issues, teaching controversial subjects, animals in therapeutic contexts and building a humane network.

AWCP 0560
Advanced Legal Issues, Animal Welfare
Students build on their knowledge of the issues discussed in AWCP 0570: General Legal Issues (module 0120) ,and progress from activities within the animal care facility, to focusing on legal issues that may be encountered when the animal care worker is out in public. These issues may include abuse investigations, entering private property, and incident investigations.

AWCP 0570
General Legal Issues
This course addresses the legalities of impounding a stray dog or a known aggressive dog found at large, the rights of clients, and enforcement of the laws pertaining to animal welfare. Basic ideas on enrichment and assessments are explored. This course relates the BC Provincial Prevention of Cruelty to Animals Act (PCA Act) and the Canadian Federal Criminal Code to daily operations in an SPCA shelter.

AWCP 620
Basic Business Techniques
Since most animal care facilities are run independently and manage their own finances through fundraising, licensing, and fines, for example, it is important that their employees have some basic business skills. This course is broken down into several areas which begin to address these skill requirements, including such topics as bookkeeping, word processing and communication.

AWCP 1700 3 credits
General Animal Welfare
This course is intended for employees of animal care facilities who are relatively new to the organization. Material directly pertaining to the BCSPCA is included, however, all of the information can be utilized by a student interested in animals and the animal humane movement. Course topics include animal care, legal issues, human conflict resolution, the business of running a shelter, safety in the workplace and humane education.

AWCP 1710 3 credits
Advanced Animal Welfare
This course is directed at the more experienced employees of an animal care facility or at students with an extensive background in animal care. The emphasis is on management techniques such as fundraising, managing volunteers, and managing employees. Animal and human-animal relations are investigated in depth, while students focus on activities outside the animal care facility (abuse investigations, injured domestic and wild animals, public education). Students with experience in these areas could proceed directly to AWCP 1710 without taking AWCP 1700. Course modules include animal care, legal issues, human conflict resolution, business management, humane education, managing volunteers, fundraising, and safety in the workplace.

BBUS 3160 3 credits
Canadian Securities and the Investment Industry (3,0,0)
The Canadian Securities Institute course examines the fundamentals of investments and all aspects of the securities industry necessary to prepare students to write the Canadian Securities Licensing exam.

Note: Students may not receive credit for this course towards the Finance Major. Students will receive general BBA credit.

BBUS 3440 3 credits
Business-To-Business Marketing (4,0,0)
The marketing of products and services to business, organizations, and institutions is a major component of the marketing activity in the economy. This course focuses on the importance of micro-markets and the decision-making process and decision-making units in the organization. It further introduces students to the growing importance of E-Commerce in business-to-business marketing.

Prerequisite: MKTG 3430

BIOL 0500 4 credits
General Biology (5,0,2)
ABE - Advanced: This basic Biology course introduces students to the fundamentals of Biology. It includes a brief study of the cell, Binomial Nomenclature, and the major Phyla of Plant and Animal Kingdoms. Fundamentals of plant and animal physiology are introduced with emphasis on the inter-relationship among living organisms.

Note: This course is offered in Williams Lake.

Required Lab: BIOL 0500L

Note: Students cannot receive credit for both BIOL 0500, BIOL 0501

BIOL 0600 4 credits

Human Biology (5,0,2)(L)

ABE - Provincial: A study of the major principles of human anatomy and physiology from the origin of atoms and elements through to the structure and function of molecules, cells, tissues, organs and body systems. Introduces the basic principles of Genetics and Evolution. Laboratory work involves organizing observations, drawing conclusions and effective communication.

Prerequisite: CHEM 0500

Required Lab: BIOL 0600L

Note: This course is taught by the University Preparation Department.

Note: Students cannot receive credit for both BIOL0600, BIOL 0601

BIOL 0620 4 credits

Introduction to Life Sciences (5,0,2)(L)

ABE - Provincial: This course introduces students to ecological principles, stressing interdependence between the form and function of organisms that enables them to survive in their environment.

Prerequisite: CHEM 0500 or Chemistry 11.

Required Lab: BIOL 0620L

Note: This course is taught by the University and Employment Preparation Department

BIOL 1040 3 credits

Biology of the Environment (3,0,3)(L)

Non-science students who have a keen interest in the environment focus on the underlying ecological principles that shape our world. They examine evolution and the ecological diversity to which it leads. Students consider the effects of the tremendous increase in human population growth on renewable and non-renewable resources, acid rain, climate change, toxins in the environment, and the biodiversity crisis. At the end of the course, students discuss ecologically sustainable development. Labs and field trips enhance students' learning experience.

Prerequisite: 1st year standing

Required Lab: BIOL 1040L

Note: Science students do not receive credit for BIOL 1040

BIOL 1050 3 credits

Biology of Humans (3,0,3)(L)

This course is designed as a science elective for Arts and Education students, or others interested in Human Biology; no previous background in biology or science is required. Students learn about the molecules, cells and tissues that comprise the human body, selected body systems, and diseases that affect them. Cell division and cancer is discussed, as well as the structure and function of DNA. Inheritance, genetic diseases and genetic engineering are also considered. Labs contribute to the understanding of this material by providing hands-on experience. Students participate in a group project to research a topic of their choice in relation to any human disease.

Prerequisite: 1st year standing

Required Lab: BIOL 1050L

Note: Science students do not receive credit for Biology 1050

BIOL 1110 3 credits

Principles of Biology 1 (3,0,3)(L)

This course is designed for biology or science majors. Students examine the molecular basis of cellular processes including energy transfer and the storage and use of genetic information.

Prerequisite: Biology 11 or 12 with a C+ or better, Chemistry 11 or CHEM 0500

Required Lab: BIOL 1110L

Note: Students repeating a course may be exempt from the laboratory component of that course if they took the course within two years and obtained a grade of at least 70% in the laboratory component of the course. The grade they previously obtained in the laboratory component of the course will be used in the calculation of their course grade.

BIOL 1210 3 credits

Principles of Biology 2 (3,0,3)(L)

This course offers a survey of the kingdoms of life, while emphasizing their ecology and evolutionary relationships.

Prerequisite: Biology 11 or 12 with a C+ or better, Chemistry 11 or CHEM 0500

Required Lab: BIOL 1210L

Note: Students repeating a course may be exempt from the laboratory component of that course if they took the course within two years and obtained a grade of at least 70% in the laboratory component of the course. The grade they previously obtained in the laboratory component of the course will be used in the calculation of their course grade.

BIOL 1592 3 credits

Human Biology: Anatomy and Physiology 1 (3,0,0)

This course is intended primarily for students taking the Nursing and Respiratory Therapy programs. However, space is also available for Academic students. Students examine the anatomy and physiology of human organ systems over the course of two semesters, while focusing on the relationship between structure and function.

Prerequisite: Biology 12 with a C+ minimum or BIOL 0600 and Chemistry 11 or CHEM 0500

Note: Students do not receive credit for more than one of BIOL 1592 and BIOL 1593 or BIOL 3540

BIOL 1594

Anatomy and Physiology Laboratory 1 (0,0,2)(L)

This course covers the first half of the laboratory component of anatomy and physiology. Students are introduced to the structure and function of the human body, beginning with an orientation of the body and continuing with the functions of cells, tissues, organs and organ systems (including the integumentary, skeletal, muscular and nervous systems). As well, the healthy functioning of the body and consideration of how each system contributes to overall health and maintenance of homeostasis will be covered.

Prerequisite: BIOL 1592 or BIOL 1593 |Corequisite: BIOL 1592 |Note: Same course as BIOL 1595

BIOL 1692 3 credits

Human Biology: Anatomy and Physiology 2 (3,0,0)

Students examine the anatomy and physiology of the human organ systems over the course of two semesters, while focusing on the relationship between structure and function.

Prerequisite: BIOL 1592 or BIOL 1593

Note: Students do not receive credit for more than one of BIOL 1692, BIOL 1693 or BIOL 3550

BIOL 1694

Anatomy and Physiology Laboratory 2 (0,0,2)(L)

This course is the second half laboratory course in anatomy and physiology. Students in the course will learn about the nervous system and the senses as well as the endocrine, circulatory, respiratory, urinary, digestive and reproductive systems.

Prerequisite: BIOL 1692 or BIOL 1693

Corequisite: BIOL 1692

Note: Same course as BIOL 1695

BIOL 2130 3 credits

Cell Biology (3,1*,3*)

Students examine eukaryotic cells, while relating structure to function. Topics include instrumentation and techniques used for studying cells and their inner workings; molecules common in various cellular structures; the structure and function of the plasma membrane, cytoplasm and organelles; transport of materials within the cell and secretion; intercellular communication and programmed cell death (apoptosis); and the medical implications of understanding cellular and molecular biology.

Prerequisite: BIOL 1110 (C minimum), CHEM 1500/1510 or CHEM 1500/1520. CHEM 2120 recommended

Required Lab: BIOL 2130L

Required Seminar: BIOL 2130S

Note: Labs and seminars are offered in alternate weeks

BIOL 2160 3 credits

Introductory Microbiology (3,0,3)(L)

Students are introduced to the world of microorganisms, including bacteria, yeasts, fungi, and viruses, and the important roles they play in ecosystem health. Focusing on the principles and applications of microbiology, course topics include microbial physiology; growth and growth control; gene transfer; gene expression and environmental sensing; disease; and environmental biotechnologies such as wastewater treatment, bioremediation and industrial microbiology. Laboratory sessions provide hands-on training in cell culture techniques, applied microbiology, and manipulation of DNA.

Prerequisite: BIOL 1110/1210, CHEM 1500/1510 or CHEM 1500/1520

Required Lab: BIOL 2160L

BIOL 2170 3 credits

Introduction to Ecology (3,0,3)(L)

Ecology can be described as the scientific study of the natural world. Students are introduced to the basic principles of ecology, and examine relationships among organisms and their environment: from the level of the individual up through populations, communities and ecosystems.

Prerequisite: BIOL 1110/1210

Required Lab: BIOL 2170L

BIOL 2280 3 credits

The Evolution and Ecology of Land Plants (3,0,3)(L)

Through an evolutionary perspective, students examine solutions to the difficulties of life on land that are inherent in the biology of land plants. The course spans groups of plants ranging from miniscule bryophytes to gargantuan trees, both extant and extinct. A weekend field trip is included.

Prerequisite: BIOL 1110/1210

BIOL 2290 3 credits

Evolution of Animal Body Plans (3,0,3)(L)

Students explore the spectacular diversity of animal body plans, and examine the sequence of events that lead to this diversity. Lectures and laboratories emphasize the link between body form, function and phylogeny. The course highlights the diverse roles animals play in natural ecosystems as well as their implications for humans, and examines how animal morphology, development, and molecular biology allows us to reconstruct the phylogenetic tree of the Animalia.

Prerequisite: BIOL 1110, BIOL 1210

Required Lab: BIOL 2290L

BIOL 2300 1 credits

Communicating Biology 1 (0,1,0)

The communication of scientific discovery is fundamental to all disciplines in Biology. Students develop their ability to convey scientific information and to read scientific literature with understanding.

Prerequisite: 2nd year standing, ENGL 1100

BIOL 2340 3 credits

Introduction to Genetics (3,1*,3*)

This course offers a general survey of basic concepts in genetics, with particular emphasis on classical Mendelian genetics, chromosomes and cytogenetics, bacterial genetics with an introduction to gene cloning methods, and the structure, regulation and mutation of genes.

Prerequisite: BIOL 1110/1210 (C minimum)

Corequisite: BIOL 2130 (recommended)

Required Lab: BIOL 2340L

Required Seminar: BIOL 2340S

Note: Labs and seminars are offered in alternate weeks.

BIOL 3000 3 credits

Biometrics (3,0,2)(L)

Students are introduced to statistical procedures for biological research. Topics include the nature of data, probability, hypothesis testing, goodness of fit, analysis of variance, correlation, and regression. The computer lab laboratory provides students with hands-on computer experience in graphical and statistical analysis.

Prerequisite: BIOL 1110 or BIOL 1113 and BIOL 1210 or BIOL 1213 and MATH 1140 or MATH 1141 or MATH 1150 or MATH 1130

Note: Students may normally receive credit for only one of the following: PSYC 2100, PSYC 2101, STAT 2000, STAT 1200, STAT 1201, ECON 2320

Required Lab: BIOL 3000L

BIOL 3010 3 credits

Bioinformatics (2,1,2)(L)

Bioinformatic tools are essential in modern molecular biology, biochemisty and ecology. High throughput DNA, RNA and protein sequencing tools have transformed the way we look at the biological world, and the data sets that life scientists currently face are larger than they have ever been. Students develop research skills required for framing strong hypotheses and performing robust experiments using large DNA and protein sequencing data sets. They examine approaches for data quality assessment and evaluation of bioinformatic tools, which are major themes of the course. Laboratory time provides hands-on experience with analysis of DNA, RNA and protein sequence data, and introduces basic computing tools that are useful for moving data between computer databases and programs.

Prerequisite: BIOL 1110 (minimum C+) and COMP 1090 (minimum C+). Recommended - a first year programming course.

Required Lab: BIOL 3010L

Required Seminar: BIOL 3010S

BIOL 3030 3 credits

Population Biology (3,1,0)

Students are introduced to the study of plant and animal populations and their physical and biological environments. Topics include natural selection and microevolution, demography, population dynamics, competition and predation.

Prerequisite: BIOL 2170 or NRSC 2100 (C minimum)

Required Seminar: BIOL 3030S

BIOL 3100 3 credits

Introduction to Animal Behaviour (3,0,3)(L)

Students examine the biological basis of animal behaviour including the genetics and development of behaviour, mate choice, communication, and social behaviour.

Prerequisite: BIOL 1110/1210 (C minimum)

Corequisite: BIOL 3000

Required Lab: BIOL 3100L

BIOL 3110 3 credits

Field Ornithology (1,1,4)

This course provides an introduction to the study and identification of birds, with a major emphasis on the birds of British Columbia. By the end of the course, students should be able to recognize most of the birds found in the Kamloops area and be familiar with basic aspects of the ecology and behavior of these species. In addition, this course is designed to help students develop the skills needed to work with birds in the field. To this end, various aspects of bird biology are studied in the lab and the classroom, as well as in the field.

Prerequisite: Third year standing or permission of the instructor

Required Lab: BIOL 3110L

Required Seminar: BIOL 3110S

BIOL 3130 3 credits

Introduction to Biochemistry (3,0,0)

Students examine cellular chemistry and the structure and function of biological molecules including nucleic acids, enzymes and other proteins, carbohydrates, lipids, and vitamins. The course also provides an introduction to metabolic pathways and bioenergetics including DNA synthesis, transcription and translation, glycolysis, fermentation and respiration, oxidation of fatty acids, and photosynthesis.

Prerequisite: BIOL 2130 (C minimum), CHEM 2120 and 2220

BIOL 3200 3 credits

Immunology (3,0,0)

This course addresses the underlying physiological functions of immunology, including tissues, cells, and molecules of the immune system; innate immunity and complement; adaptive immunity-cellular and humoral immune responses; cytokines; T cell activation; the major histocompatability complex; antibody structure and genetics; the immune system and cancer; AIDS; autoimmunity; and hypersensitivity.

Prerequisite: BIOL 2130 (C minimum)

BIOL 3210 3 credits

Microbial Ecology (3,0,0)

This course addresses the importance of microorganisms in nature and societies. The interrelationship between microorganisms, plants, animals and their habitats and the role of these relationships in the maintenance of ecological balance is emphasized.

Prerequisite: BIOL 2130 (minimum C), BIOL 2160 (minimum C), BIOL 2170 (minimum C) and CHEM 2220. Recommended - BIOL 3130.

BIOL 3220 3 credits

Natural History (2,0,4)

Defined as "the direct knowledge of organisms in their environments," natural history remains a critical link between science and society. In this course, students learn to identify the dominant flora and fauna, as well as their patterns of distribution, in key ecosystems throughout southern British Columbia (or another regional location). Students synthesize key climatic, geological and biotic processes responsible for the observed patterns. Through close reading and emulation of writer-naturalists, students relate the science of natural history to a larger human truth or societal concern. In addition, students evaluate the changing relationship between humans and their inhabited landscapes by considering such topics as invasive species, habitat fragmentation and climate change.

Prerequisite: Completion of 60 credits or permission of the instructor

Required Lab: BIOL 3220L

BIOL 3230 3 credits

Biochemistry (3,0,0)

This course offers a series of comprehensive lectures on the structure, function, synthesis and degradation of macromolecules (nucleic acids, proteins, lipids, carbohydrates). In addition, the regulatory mechanisms involved in these processes are addressed.

Prerequisite: BIOL 3130 (C minimum)

BIOL 3260 3 credits

Field Botany (1,1,4)(L)

This course is an introduction to flowering plant identification and taxonomy of the flora found within a given region. This field-trip based course emphasizes the descriptive morphology and technical

identification of the local flora. Students are required to submit a plant collection of twenty-five specimens.

Prerequisite: BIOL 2280 or BIOL 3430 or permission of the instructor

Required Lab: BIOL 3260L

Required Seminar: BIOL 3260S

BIOL 3290 3 credits

Ichthyology (3,0,3)(L)

This course educates students in the systematics, anatomy, physiology, life history, and ecology of freshwater and marine fishes. Students learn to identify local freshwater fishes, and salmon species.

Prerequisite: BIOL 2170 (C minimum)

Required Lab: BIOL 3290L

Note: This course is a cross-listing of NRSC 3170

BIOL 3300 1 credits

Communicating Biology 2 (0,1,0)

The communication of scientific discovery is fundamental to all disciplines in biology. Students continue to develop their ability to convey scientific information and to read the scientific literature with understanding.

Prerequisite: ENGL 1100 or 1110, BIOL 2300, 3rd year standing in a Biology Major

Corequisite: Enrolment in a 3rd year biology course

BIOL 3310 3 credits

Developmental Biology (3,0,3)(L)

Students explore animal development and its underlying principles, including an introduction to embryology.

Prerequisite: BIOL 2130 and 2340 (C minimum)

Corequisite: BIOL 3130 and 3350

Required Lab: BIOL 3310L

Note: BIOL 3310 is offered on alternate years

BIOL 3350 3 credits

Molecular Genetics (3,1,0)

The discipline of molecular genetics focuses on the structure, organization and regulated expression of heritable information molecules. A significant segment of the course is devoted to the molecular tools used to query and manipulate biological systems. Students also read and discuss current literature on molecular genetics in Seminars.

Prerequisite: BIOL 2130 and 2340 (C minimum)

Corequisite: BIOL 3130

Required Seminar: BIOL 3350S

BIOL 3430 3 credits

Plants and People (3,0,2)(L)

Students explore the human use of plants in the past, the present, and the future, including the origins, evolution and dispersal of plants important to humankind (such as food crops, herbs and spices, medicinal and drug plants, and ornamentals). The social and economic implications of biotechnology and the ecological impact of our current loss of plant biodiversity is also examined.

Prerequisite: 3rd year standing

Required Lab: BIOL 3430L

Note: BIOL 3430 is offered on alternate years

BIOL 3510 3 credits

Plant Physiology (3,0,3)(L)

Students are introduced to the mechanisms and regulation of functional processes within plants that contribute to their growth, assimilation, transport and utilization of water, nutrients, and carbon.

Prerequisite: BIOL 2280 (C minimum)

Required Lab: BIOL 3510L

Note: BIOL 3510 is offered on alternate years

BIOL 3520 3 credits

Cell Physiology (3,0,3)(L)

Students are introduced to the physiochemical basis for cellular activity, with emphasis on energy relationships, functions of cell parts, integration and internal control of cellular activities, and the mechanisms of influence of external factors. Laboratory work provides hands-on experience with the techniques and apparatus used to study cell function.

Prerequisite: BIOL 3130 (C minimum)

Required Lab: BIOL 3520L

BIOL 3540 3 credits

Human Physiology 1 (3,0,3*)(L)

This course provides an introduction to the concepts, principles, and mechanisms that underlie our current understanding of vertebrate physiology. Students explore the components of homeostatic control systems and investigate the integration of these components into functional systems that maintain the steady state in the internal environment.

Prerequisite: BIOL 2130 (C minimum)

Corequisite: BIOL 3130

Required Lab: BIOL 3540L

Note: Labs are run alternate weeks

Note: Students do not receive credit for both BIOL 3540 and BIOL 1590

BIOL 3550 3 credits

Human Physiology 2 (3,0,3*)(L)

Students examine the systems that allow animals to maintain homeostasis under a variety of environmental conditions and levels of activity. Topics include gas exchange, regulation of water balance and inorganic ions, digestion and absorption of food, and the regulation of metabolism.

Prerequisite: BIOL 3540 (C minimum)

Required Lab: BIOL 3550L

Note: Labs are run alternate weeks

Note: Students do not receive credit for both BIOL 3550 and BIOL 1690

BIOL 3800 3 credits

Fermentation Processes in Food and Pharmaceutical Production (3,0,0)

This course provides students with an understanding of the principles of fermentation technology and knowledge of various factors that have a great impact on the biochemical and physiological basis of fermentation processes. Particular emphasis will be given to those processes that are relevant to the production of food and pharmaceutical products. The course will involve case studies and field trips to local wineries, cheese factories and/or microbreweries.

Prerequisite: BIOL 2160 and BIOL 3130

BIOL 3980 1 credits

Introduction to Research (0,1,0)

This course is available to 3rd year students contemplating entry into the Honours program or undertaking a Directed Studies research project in their 4th year. The seminar focuses on formulation of a research hypothesis and production of a research proposal in preparation for application to do an Honours or Directed Study research project. Honours students are expected to take this course, although the learning objectives may be completed under the supervision of an individual faculty member.

Prerequisite: 3rd year standing in a Bachelor of Science degree program or Bachelor of Natural Resource Science program

BIOL 4020 3 credits

Limnology (3,0,3)(L)

This course offers theoretical and applied aspects of limnology. Students consider the ecology of inland water organisms in relation to the physical, chemical, and biological factors that affect their interactions and production. One weekend field trip is required.

Prerequisite: BIOL 3000, BIOL 2170 (C minimum)

Required Lab: BIOL 4020L

Note: This course is cross-listed as NRSC 3260

BIOL 4090 3 credits

Field Methods in Terrestrial Ecology (125 hours)

Students participate in an intensive two-week exploration in the field methods used to study terrestrial ecosystems. The course is typically offered immediately after exams in the winter semester (usually late April or early May). Students learn the field techniques needed for studies of terrestrial ecosystems and carry out individual projects of their own design. Facilities such as the Wells Gray Education and Research Centre are used anda fee is required to meet living expenses.

Prerequisite: BIOL 3000, 3020, 3030 (C minimum). BIOL 3100 recommended.

Note: BIOL 4090 is offered on alternate years

BIOL 4100 3 credits

Field Methods in Marine Ecology (125 hours)

Students participate in an intensive two-week exploration in the field methods used to study marine ecosystems. The course is typically offered immediately after exams in the winter semester (usually late April or early May). Students learn field and laboratory techniques for sampling, experimentation, and analysis of marine organisms and ecosystems, and carry out individual projects of their own design. Facilities such as the Bamfield Marine Station are utilized, and a fee is required to meet living expenses.

Prerequisite: BIOL 3030 or BIOL 2170 and BIOL 2290 (C minimum)

Note: BIOL 4100 is offered on alternate years

BIOL 4110 3 credits

Advanced Microbiology Lab (1,1,3)(L)

Students apply theories learned in microbiology, biochemistry, and molecular biology in a hands-on laboratory environment. Emphasis is placed on gaining a deeper understanding of microbial physiology and ecology, and harnessing the diversity of the microbial world to produce value-added products. Students are involved in all aspects of the scientific process including designing experiments,

collecting and analyzing data, and preparing formal written reports.

Prerequisite: BIOL 2160, BIOL 2130, CHEM 2120/2220, BIOL 3210 recommended

Required Lab: BIOL 4110L

Required Seminar: BIOL 4110S

BIOL 4120 3 credits

Evolution of Flowers (3,0,0)

The evolution of flowers has been described as an "abominable mystery." This course examines the evolutionary processes responsible for the extraordinary diversity of flowers. Students consider important trends in floral evolution including variation and speciation, plant mating systems, hybridization and polyploidization, as well as the co-evolutionary processes between flowers and their animal pollinators.

Prerequisite: BIOL 2280 or BIOL 3430 and permission of the instructor

BIOL 4130 3 credits

Molecular Evolution (3,0,0)

The theory of evolution is the single thread that binds together the diverse disciplines that make up the biological sciences. The development of DNA sequencing methodologies since the turn of the century has had an enormous impact on our understanding of the process of evolution. Students focus on how DNA sequence informs us about evolutionary processes.

Prerequisite: BIOL 3350 (C minimum)

BIOL 4140 3 credits

Evolution (3,0,0)

This course offers a critical appraisal of the evidence for evolution. Students consider the basic principles of natural selection, and the nature and origin of species and higher categories.

Prerequisite: BIOL 2280 or BIOL 2290 (minimum C) and BIOL 2170 or BIOL 3030 (minimum C)

BIOL 4150 3 credits

Biochemical Techniques 1 (1,1,3)(L)

In this laboratory-based course, students are introduced to the techniques used to isolate and study enzymes and other proteins. Emphasis is placed on the development of basic laboratory skills in the context of isolating, purifying and analyzing an enzyme, and lactate dehydrogenase.

Prerequisite: BIOL 3230 (C minimum)

Required Lab: BIOL 4150L

Required Seminar: BIOL 4150S

BIOL 4160 3 credits

Principles of Conservation Biology (2,2,0)

Students explore the theory and practice relating to the conservation of threatened organisms and their habitats. Topics include the genetics and demography of small and fragmented populations; global and local conservation problems; and case histories of the conservation of endangered animals and plants. The course includes two compulsory weekend field trips.

Prerequisite: BIOL 3030 (C minimum)

Note: Students do not receive credit for both BIOL 4160 and NRSC 3220

Required Seminar: BIOL 4160S

BIOL 4210 3 credits

Microbial Physiology (3,0,0)

Students are introduced to the diversity and complexities of the biochemistry and physiology of microbes. The emphasis is on bacterial growth and its modifications in different environments.

Prerequisite: BIOL 2160, BIOL 3230 and BIOL 3350 (minimum C grades). Recommended - BIOL 3520.

BIOL 4250 3 credits

Biochemical Techniques 2 (Recombinant DNA) (1,1,3)(L)

In this laboratory-based course, students practice the techniques used to isolate and manipulate nucleic acids. Emphasis is placed on the development of basic laboratory skills and their application to manipulate recombinant DNA molecules.

Prerequisite: BIOL 3130 and 3350 (C minimum). BIOL 3230/4150 recommended.

Required Lab: BIOL 4250L

Required Seminar: BIOL 4250S

BIOL 4260 3 credits

Plant Ecology (3,0,3)(L)

Students examine the ecology of plants at an individual, population, and community scale. The ecological physiological constraints of being a plant is reviewed before exploring species interactions with the natural environment and with other species. Students also consider plant community patterns in time and space. Topics include issues in plant conservation, community attributes such as productivity and diversity, and the influence of scale and heterogeneity on sampling design and analysis. Field trips may occur on weekends. This course is offered in alternate years.

Prerequisite: BIOL 2170 and 2280

Required Lab: BIOL 4260L

BIOL 4270 3 credits

Terrestrial Vertebrate Zoology (2,0,3)(L)

This advanced zoology course offers an examination of the origins, natural history and behavioral ecology of terrestrial vertebrates. Students construct hypotheses about the paleontological history of each living group of terrestrial vertebrates. Traits of extinct and living forms are used to analyze how adaptation to different environments has generated the diversity within each living group. Laboratory periods and field trips provide opportunities for students to observe the classification, life histories and ecology of species found in British Columbia.

Prerequisite: Grade of C or better in each of BIOL 2170; BIOL 2290

Required Lab: BIOL 4270L

Note: Field trips may occur on weekends

BIOL 4300 1 credits

Communicating Biology 3 (0,1,0)

The communication of scientific discovery is fundamental to all disciplines in biology. Students augment the skills developed in BIOL 2300 and 3300, and further develop their ability to convey scientific information and to read the scientific literature with understanding. Students are also introduced to the typical formats and media in which scientific results are presented.

Prerequisite: ENGL 1100 or 1110, BIOL 3300, 3rd year standing in a Biology Major program

Corequisite: Enrolment in a 3rd or 4th year biology course

BIOL 4350 3 credits

Regulation of Gene Expression (3,0,0)

The heritable information stored in the genome of an organism is expressed in a highly regulated fashion to respond to changes in the environment (prokaryotes and unicellular eukaryotes), or to generate a diverse set of cell types (metazoans). Students examine the molecular mechanisms underlying the regulation of gene expression in prokaryotes and eukaryotes.

Prerequisite: BIOL 3350 and 3130 (C minimum)

BIOL 4480 3 credits

Directed Studies in Biology (L)

This course is designed to allow students to undertake an investigation on a specific topic as agreed upon by the faculty member and the student.

Prerequisite: Permission of the supervisor and co-supervisor required.

BIOL 4490 3 credits

*****Advanced Seminar - Selected Topics in Biology (1,2,0)**

In this advanced seminar course, students focus on recent developments in modern biology. Topics are selected from the instructor's area of expertise and vary from year to year.

Prerequisite: 4th year standing and permission of the instructor.

BIOL 4600 3 credits

Microscopy Techniques (1,2,0)

Students learn about basic optics as well as types of microscopy from compound light microscopes and fluoescence microscopes to transmission and scanning electron microscopes. Students will be exposed to the basic methods of preparing samples for examination by light and electron microscopy.

Prerequisite: BIOL 2130 in addition to third-year standing

BIOL 4980 2 credits

Honours Seminar in Biological Sciences (0,2,0)

Students enrolled in the Biology Honours program explore and discuss topics of particular relevance to the field of biological science with a focus on how scientific research is carried out and presented. Honours students are also provided with constructive criticism of their thesis research project. The seminars consist of readings, group discussions, and presentations by students, interested faculty and guest speakers.

Prerequisite: Acceptance into the Biology Honours program, upon completion of 3rd year of a Bachelor of Science program with a Major in Biology.

General requirements for acceptance are: 4th year standing in the Bachelor of Science program, minimum GPA of 3.0, with at least a B- in all BIOL and required ENGL courses, and identification of a supervisor for the Honours Thesis (BIOL 4990).

Corequisite: BIOL 4990. This course is available only to students accepted into the Biology Honours program of the Bachelor of Science degree. It is taken at the same time as BIOL 4990 - Honours Thesis.

Note: (if applicable): Students register in this course in the fall and winter semesters of their last academic year of study.

BIOL 4990 6 credits

Honours Thesis in Biological Sciences

Students are required to conduct an original research project in the Biology Honours program of the Bachelor of Science (B.Sc.) degree. The project is completed under the direction of a faculty member in the Department of Biological Sciences, or a scientist from outside the department with co-supervision by a Biology faculty member. Students accepted into the Biology Honours program register in this course in both the fall and winter semesters of their final academic year.

Prerequisite: Acceptance into the Biology Honours program, upon completion of 3rd year of a Bachelor of Science program with a Major in Biology. General requirements for acceptance are: 4th year standing in the B.Sc. program, minimum GPA of 3.0, with at least a B- in all BIOL and required ENGL courses, and identification of a supervisor for the Honours Thesis (BIOL 4990).

Corequisite: BIOL 4980

BLAW 2910 3 credits

Commercial Law (3,0,0)

Students examine the legal environment in which businesses operate and how common law and different provincial and federal government statutes influence decision making. Topics include origins of Canadian law; resolving disputes and navigating the court system; tort law, contract law; sales of goods and consumer protection; methods of carrying on business; workplace law; property law; and creditor law.

Prerequisite: ENGL 1100

BLAW 3910 3 credits

Real Estate Law (3,0,0)

Students investigate the legal principles and law relating to acquiring property rights in and developing legal interests in land. Case law and statutes are studied in depth to reinforce an understanding of the legal concepts. Topics include acquiring an interest in land; long and short-term commercial leases; aboriginal land interests; environmental responsibility for land owners and tenants; and organizations impacting land development and marketing.

Prerequisite: BLAW 2910 with minimum C- or equivalent

BLAW 3920 3 credits

Employment Law (3,0,0)

Students investigate the legal principles and law relating to the individual employer-employee relationship and how its influences business decision making. Topics include human rights issues; contract of employment; legal issues during the course of employment; statutes that impact the employment relationship; monitoring the employment relationship; and termination of the employment relationship.

Prerequisite: BLAW 2910 (minimum C-); HRMN 2820 (minimum C-); or equivalent

Note: Students cannot receive credit for more than one of BLAW 3920, BLAW 3921 or BBUS 3920

BUSN 3980 3 credits

Business Research Methodology (0,3,0)

Students learn to identify and formulate a research question, select and apply appropriate quantitative and qualitative research methods, and present research findings. A strong focus is placed on ethical issues relevant for research in the business and economics disciplines. Topics include an introduction to research methodology; defining the problem statement; critical literature review; theoretical framework and hypothesis development; elements of research design; data collection methods; experimental designs; experimental designs; measurement of variables; sampling; research reports; research ethics; and a review of quantitative data analysis.

Prerequisite: CMNS 1290; ECON 2330 or equivalent

Note: Students cannot receive credit for BUSN 3980 and BBUS 3980

BUSN 3990 3 credits

*****Selected Topics in Business Administration (3,0,0)**

The subject matter in this course will vary from semester to semester depending upon the interests of students and faculty. Courses are taught by visiting professors to instill their unique perspectives or regular faculty to address emerging topics in a discipline, share research or teaching interests, or test potential new courses.

Prerequisite: Permission of the program advisor

Note: Students cannot receive credit for both BUSN 3990 and BBUS 3990

BUSN 4960 6 credits

Directed Studies in Business Administration

Individuals or groups of students engage in independent study, research, or practice related to a topic in business administration under faculty supervision. The supervisor(s) determines the appropriate curriculum, evaluation methods, and credit assignment in consultation with students and subject to the approval of the department chairperson(s) and dean.

Prerequisite: Permission of the program advisor

Note: Students cannot receive credit for BUSN 4960 and BBUS 4960

BUSN 4980 6 credits

Honours Thesis (0,3,0)(0,3,0)

Students in the Honours Option-Thesis Route in the Bachelor of Business Administration degree prepare and defend a thesis in accordance with the policies established by the School of Business and Economics. The thesis is completed under the supervision of a faculty member and is evaluated by their thesis supervisor and a second reader.

Prerequisite: BUSN 3980 (minimum C-) or equivalent; permission of the program advisor

Note: Students cannot receive credit for more than one of BUSN 4980 or BBUS 4980

BUSN 4990 3 credits

*****Selected Topics in Business Administration (3,0,0)**

The subject matter in this course varies from semester to semester depending upon the interests of students and faculty. Courses are taught by visiting professors to instill their unique perspectives or regular faculty to address emerging topics in a discipline, share research or teaching interests, or test potential new courses.

Prerequisite: Permission of the program advisor

Note: Students cannot receive credit for both BUSN 4990 and BBUS 4990

BUSN 5010 3 credits

Managerial Statistics (3,0,0)

Students examine the statistical methods and tools required for decision making in today's business environment. Topics include descriptive statistics and numerical measures, statistical inferences with two populations, hypothesis tests and nonparametric methods, analysis of variance, simple regression models, multiple regression models, regression and the model building process, regression models with categorical dependent variables and applied models with categorical dependent variables.

Prerequisite: Admission to the GDBA or MBA or approval of degree committee

Note: Students may only receive credit for one of BUSN 5010, BUSN 5011 and GBUS 5010

BUSN 5020 3 credits

Financial Accounting (3,0,0)

Students acquire the knowledge and skills necessary to understand financial statements. They analyze the many accounting policy choices available to companies, and the consequences of these choices for users. Topics include recording basic financial transactions, financial statement preparation, adjusting entries, accounting for receivables and inventories, depreciation and sale of capital assets, bonds and long-term debt, equity transactions, the cash flow statement, revenue and expense recognition, and leases and pensions.

Prerequisite: Admission to GDBA or MBA or approval of degree committee

Note: Students may only receive credit for one of BUSN 5020, BUSN 5021 or GBUS 5000

BUSN 5030 3 credits

Management Accounting (3,0,0)

Students explore the three functions managers must perform within their organizations: planning operations, controlling activities and making decisions. To perform these functions efficiently, managers must collect and interpret appropriate information based on the firm]s long-term strategy and annual objectives. Topics include an introduction to management accounting; costs and cost behaviours; job or project costing; activity-based costing; cost behaviour and the contribution margin; cost, volume, profit analysis; budgeting; budget variances and performance evaluation; performance measures and the balance scorecard; and short-term decision analysis.

Prerequisite: BUSN 5020 or equivalent

Note: Students may only receive credit for one of BUSN 5030, BUSN 5031 or GBUS 5030

BUSN 5040 3 credits

Global Economics (3,0,0)

Students develop an understanding of the theoretical framework within which the performance of an economy can be analyzed. Topics include overview of macroeconomics; measurement of income, prices and unemployment; national income determination; money, banks and central bank; the IS-LM model; financial market and economic instability; government budget, debt, and limitations of fiscal policy; international trade, exchange rate and macroeconomic policy; aggregate demand and aggregate supply; inflation; stabilization policies and the theory of economic growth.

Prerequisite: Admission to GDBA or MBA or approval of degree committee

Note: Students may only receive credit for one of BUSN 5040, BUSN 5041 or GBUS 5050

BUSN 5050 3 credits

Marketing Management (3,0,0)

Students examine the key principles and concepts of marketing in a variety of contexts including nonprofit, international, services, and environmental issues. Topics include marketing strategy, marketing research, customer relationship management, market segmentation, branding, pricing strategies, channels of distribution, integrated marketing communications, and international marketing.

Prerequisite: Admission to GDBA or MBA or approval of degree committee

Note: Students may only receive credit for one of BUSN 5050, BUSN 5051 or GBUS 5100

BUSN 5060 3 credits

Human Resource Management (3,0,0)

Students acquire the knowledge and skills required to effectively design and manage a human resource management system. Human resource management systems that are aligned with strategic objectives and more capable of attracting, deploying, developing and retaining human capital are key contributors to organizational competitiveness and success. Topics include the strategic role of human resource management; the legal environment; designing and analyzing jobs; planning and recruitment; selection; orientation and training; performance appraisal; compensation; employee benefits and services; occupational health and safety; effective employee relations; and labour relations, collective bargaining, and contract administration.

Prerequisite: Admission to GDBA or MBA or approval of degree committee

Note: Students may only receive credit for one of BUSN 5060, BUSN 5061 or GBUS 5140

BUSN 6010 3 credits

Ethics and Corporate Social Responsibility (3,0,0)

Students become more effective decision makers by examining the meaning and role of ethics in the business environment, and the social responsibility of business organizations. Topics include an introduction business ethics; framing business ethics in terms of corporate social responsibility, stakeholders and citizenship; evaluating business ethics using normative ethical theories; making decisions in business ethics using descriptive ethical theories; tools and techniques of business ethics management; business ethics and shareholders, employees, consumers, suppliers, competitors, civil society, government and regulation; the future of business ethics.

Prerequisite: Admission to MBA or approval of degree committee

Note: Students may only receive credit for one of BUSN 6010, BUSN 6011 or GBUS 5150

BUSN 6020 3 credits

Corporate Finance (3,0,0)

Students develop the knowledge and skills required to effectively manage a firm's operating and fixed assets, and to fund those assets with an optimal mix of short-term and long-term debt and equity financing. Topics include time value of money; goals of the firm, corporate governance and executive compensation; financial statement analysis; quality of earnings; maturity matching; short-term financial planning; capital budgeting; risk and return and stock valuation; bond valuation and interest rates; cost of capital; capital structure; and dividend policy.

Prerequisites: BUSN 5010 AND BUSN 5030 AND BUSN 5040 or equivalent

Exclusion: Students cannot receive credit for more than one of BUSN 6020, BUSN 6021 or GBUS 5110

BUSN 6030 3 credits

International Business (3,0,0)

Students are introduced to the basic concepts of international business and competition from a manager's perspective. Topics include country differences in political economy, the cultural environment, ethics in international business, international trade theories, the political economy of international trade, foreign direct investment, regional economic integration, the foreign exchange market, the global monetary system, global strategy, global marketing and research and development, and global human resource management.

Prerequisite: BUSN 5040 and BUSN 5050 or equivalent

Note: Students may only receive credit for one of BUSN 6030, BUSN 6031 or GBUS 5120

BUSN 6040 3 credits

Leadership and Organizational Development (3,0,0)

Students adopt a systematic understanding of the characteristics of a successful leader and what is required by leaders to attune and align organizations to the ever-changing global business environment. Topics include new realities as a force for change; the prime task of leadership - identifying new realties; critical systems thinking; philosophies, theories, and styles of leadership; the systematic leadership approach; authority, obedience, and power; authority, power, leadership, and group dynamics; organizational behavior, group dynamics, and change; the shadow side of leadership; leadership and ethics; systematic leadership and strategy; and 'the leader in you'.

Prerequisite: BUSN 5060 or equivalent

Note: Students may only receive credit for one of BUSN 6040, BUSN 6041 of GBUS 5150

BUSN 6050 3 credits

Supply Chain Management (3,0,0)

Students acquire the knowledge and basic skills to effectively design a supply chain for an organization. Topics include an introduction to supply chain, the importance of information technology, supply chain slacks, demand management, supply management, inventory management, production management, transportation management, location analysis, sourcing decisions, supply chain strategy, and an overview of special types of supply chains such as green and humanitarian aid supply chains.

Prerequisite: BUSN 5010 and BUSN 5030 or equivalent

Note: Students may only receive credit for one of BUSN 6050, BUSN 6051 or GBUS 5130

BUSN 6060 3 credits

Strategic Management Information Systems (3,0,0)

Students examine the ability of information technology to enhance the quality and efficiency of decision making by improving the various elements of the decision-making process and making data collection more cost effective. They also discover what every manager needs to know to leverage information systems for the design and implementation of business models in an organization. Topics include: introduction to information systems, organizational strategy and competitive advantage; overview of hardware and software; managing data, information and knowledge; computer networks; information systems in support of business operations; decision support systems and business intelligence; information systems for strategic advantage enterprise resource planning; World Wide Web, E-commerce and mobile commerce; management information systems development and acquisition; cybercrime, information security and controls; and ethics and privacy.

Prerequisite: Admission to MBA or approval of degree committee

Note: Students may only receive credit for one of BUSN 6060, BUSN 6061 or GBUS 5300

BUSN 6070 3 credits

Project Management and Consulting Methods (3,0,0)

Students explore the concepts and practical techniques to apply consulting methods in their work and to participate in, or manage, complex projects. Topics include the five stages of the consulting process (entry and contracting, discovery and dialogue, analysis and the decision to act, engagement and implementation, and closing); analysis and presentation techniques; and an examination of the five major project process groups (project initiation, planning, execution, controlling, and closing).

Prerequisite: BUSN 6040 or equivalent

Note: Students may only receive credit for one of BUSN 6070, BUSN 6071 or GBUS 5210

BUSN 6080 3 credits

Strategic Management (4,0,0)

Students examine the role of senior management in developing and implementing corporate strategy in a global context. They learn to analyze the firm's external and internal environment to identify and create competitive advantage, as well as to formulate, implement, and evaluate cross-functional decisions that directly affect the ability of an organization to achieve its stated objectives. Topics include an introduction to strategic management, measures of firm performance, analysis of the external and internal environments, business-level and corporate-level strategy, acquisition and restructuring strategies, international strategies, corporate governance, organizational structures and controls, strategic leadership, and corporate social responsibility and ethics.

Prerequisite: BUSN 6010, BUSN 6020, BUSN 6030, BUSN 6040 and BUSN 6050 or equivalent

Note: Students may only receive credit for one of BUSN 6080, BUSN 6081 or GBUS 5200

BUSN 6150 3 credits

Advanced Marketing Management (3,0,0)

Students acquire the knowledge and skills required to develop, implement, and control successful marketing strategies. Topics include the art of case analysis; consumer behavior; marketing research and competitive analysis; marketing segmentation and position; market entry and pricing; retail selling, private labels, and channels of distribution; marketing communications; Internet marketing; corporate social

responsibility and nonprofit marketing; sales management; and international marketing.

Prerequisite: BUSN 5050 or equivalent

Note: Students may only receive credit for one of BUSN 6150, BUSN 6151 or GBUS 5600

BUSN 6210 3 credits

Advanced Corporate Finance (3,0,0)

Building on BUSN 6020: Corporate Finance, students continue to develop their knowledge and skills in corporate finance. Topics include long-term financial planning; sources of long-term financing; working capital management; sources of short-term financing; international corporate finance; risk management; business valuation; mergers and acquisitions; corporate restructuring; bankruptcy, reorganization, and liquidation; and economic value added.

Prerequisite: BUSN 6020 or equivalent

Note: Students may only receive credit for BUSN 6210, BUSN 6211 or GBUS 5400

BUSN 6250 3 credits

Decision Analysis and Modelling (3,0,0)

Students learn to integrate personal judgment and intuition in realistic business situations with the most widely applicable methodologies of decision and risk analysis, probability and statistics, competitive analysis, and management science. Topics include an introduction to decision analysis and modelling; spreadsheet engineering and error reduction; framing decision analysis problems; framework for analyzing risk; data analysis; resource allocation with optimization models; multi-period deterministic models; multi-factor deterministic models; regression modelling; strategic interactive decisions; and interpreting models, data, and decisions.

Prerequisite: BUSN 5010 and BUSN 5030 or equivalent

Note: Students may only receive credit for one of BUSN 6250 or BUSN 6251

BUSN 6310 3 credits

Innovation and Entrepreneurship (3,0,0)

Students acquire the knowledge and skills required to manage the development of innovations, to recognize and evaluate potential opportunities to monetize these innovations, to plan specific and detailed methods to exploit opportunities, and to acquire the resources necessary to implement plans. Topics include entrepreneurial thinking, innovation management, opportunity spotting and evaluation, industry and market research, business strategy, business models and business plans, financial forecasting and entrepreneurial finance, pitching to resource providers and negotiating deals, and launching new ventures.

Note: Students may only receive credit for one of BUSN 6310, BUSN 6311 or GBUS 5210

BUSN 6910 3 credits

Selected Topics in Business Administration (3,0,0)

Students will focus on specific topics within the field of business administration not covered by regularly scheduled, required courses in the program. Course content will vary depending on the interests of faculty and students.

Prerequisite: Approval of degree committee

BUSN 6920 6 credits

Directed Studies in Business Administration (3,0,0) or (3,0,0)(3,0,0)

Students will work individually or in a small group to engage in independent study, research, or practice relating to a topic in business administration, under faculty supervision. Students work independently, meeting with the supervisor on a regular basis.

Prerequisite: Approval of degree committee

BUSN 6950 3 credits

Research Methods, Preparation, and Presentation (3,0,0)

Students receive an overview of the scientific method, research preparation, and the styles of communication used to disseminate research at the graduate level. Topics include the role of business research, theory and the business research process, organization structure and ethical issues, defining a research problem, qualitative research tools, survey research, observation methods and experimental research, measurement and scaling concepts, sampling and sample size, working with data, quantitative statistical analysis, and writing a research report.

Prerequisite: BUSN 5010 or equivalent

Note: Students may only receive credit for one of BUSN 6950 or BUSN 6951

BUSN 6960 12 credits

Graduate Thesis

Students in the Graduate Thesis Option in the Master of Business Administration degree program prepare and defend a thesis in accordance with the policies established by the Research, Innovation, and Graduate Studies Office. The thesis is completed under the supervision of a faculty member and a thesis supervisory committee and evaluated by a thesis defence/examining committee.

Prerequisite: BUSN 6950 or equivalent

Note: Students may only receive credit for one of BUSN 6960 or BUSN 6961

BUSN 6970 9 credits

Graduate Project

Students in the Graduate Project Option in the Master of Business Administration degree program prepare and defend a report that addresses a particular management issue or problem. The report is completed under the direction of a faculty member and evaluated by a project defence committee.

Prerequisite: BUSN 6950 or equivalent

Note: Students may only receive credit for one of BUSN 6970 or BUSN 6971

CARP 1900

Carpentry Trade Sampler (120 hours)

This course is a sampler of the carpentry trade based on the Carpentry Foundation Program Outline from the Industry Training Authority of BC. Students will gain familiarity with the safe use of hand tools, portable power tools and other equipment regularly used by carpenters, as well as gaining familiarity with many of the construction materials used in the Trade. The emphasis of this course is on developing practical, hands-on carpentry skills.

Prerequisite: Completion of Grade 10

CARP 2000

Carpentry Apprentice Level 1 (210 hours)

Students are introduced to theory and gain hands-on shop experience in the following topics: safe work practices, documentation and organizational skills, tools and equipment, survey instruments, perform site layout, build concrete framework, frame residential housing and building science.

Prerequisite: A minimum of Grade 10 or equivalent including English 10, Mathematics 10, and Science 10 is recommended. Grade 12 preferred. BC ITA sponsorship.

CARP 3000

Carpentry Apprentice Level 2 (210 hours)

Students are introduced to theory and gain hands-on shop experience in the following topics: safe work practices, documentation and organizational skills, tools and equipment, survey instruments, access, rigging and hoisting equipment, perform site layout and concrete formwork and building science.

Prerequisite: Level 1 Apprenticeship and BC ITA sponsorship

CARP 4000

Carpentry Apprentice Level 3 (210 hours)

Students are introduced to theory and gain hands-on shop experience in the following topics: documentation and organization skills; tools and equipment; survey instruments; frame residential housing; applying finishing materials; and building science.

Prerequisite: Level 2 Apprenticeship and BC ITA sponsorship

CARP 5000

Carpentry Apprentice Level 4 (210 hours)

Students are introduced to theory and gain hands-on shop experience in the following topics: documentation and organizational skills, survey instruments, perform site layout, build concrete formwork, frame residential housing, apply finishing materials and apply building science.

Prerequisite: Level 3 Apprenticeship and BC ITA sponsorship

CENG 2010 3 credits

Computer Architecture & Assembly Language (3,2,0)

Students are introduced to the basic concepts of computer architecture. Students learn about CPU, data bus, memory organization including cache, internal, external memory and pipelining. Students explore the I/O, interrupts, instruction sets, addressing modes, and ALU. Students are introduced to assembly language programming and its relationship with high-level language such as C.

Prerequisite: MATH 1230 with a minimum grade of C AND SENG 1210 with a minimum grade of C

CENG 2030 3 credits

Introduction to Digital Signal Processing (3,2,0)

Students are introduced to the basic concepts of digital signal processing, sampling, and classification of signals. Students explore the theory of discrete time signals and systems, system input-output, convolution, Z-transform and transfer functions. Students learn the concepts of frequency analysis of signals and systems, Discrete-time Fourier transform (DFT) and Fast Fourier transform (FFT),

Implementation of discrete-time systems, design of finite impulse response (FIR) and infinite impulse response (IIR) filters, and design considerations of digital filters.

Prerequisite: MATH 2110 with a minimum grade of C

CENG 3010 3 credits

Computer System Design (3,2,0)

Students are introduced to the basic concepts of industry-standard hardware description language VHDL into the digital design process. Students explore designing the implementation of fixed- and floating-point number representations, high-speed adders, shift and logical operations, hardware multipliers/dividers, data path, control unit, memory management, and pipelining using VHDL. Students learn RISC vs CISC instruction-set design philosophy and associated cost-performance trade-offs.

Prerequisite: CENG 2010 with a minimum grade of C AND EPHY 2990 with a minimum grade of C

CENG 3020 3 credits

Real Time Systems Design (3,2,0)

Students are introduced to the concepts of real-time systems from hardware and software perspectives with a specific focus on exploring real-time operating systems covering the concepts of concurrency, exception handling, synchronization and scheduling techniques. Students learn capturing requirements and designing real-time systems and applying the concepts of resource management, reliability, fault tolerance and performance analysis.

Prerequisite: CENG 3010 with a minimum grade of C

CENG 3310 3 credits

Digital Communication Systems (3,2,0)

Students are introduced to the concepts of analog and digital communication systems such as various modulation techniques, frequency multiplexing, line coding, pulse shaping, and time division multiplexing. Students explore noise in various modulation schemes, error detecting codes and signal detection techniques. Students learns fundamental of information theory.

Prerequisite: MATH 2240 with a minimum grade of C AND EPHY 2300 with a minimum grade of C

CENG 4320 3 credits

Communication Networks (3,2,0)

Students are introduced to the concepts of communication networks including various protocol layers and their service models. Students explore the topics related to the communication network design and deployment principles.

Students learn error-detection and -correction techniques, flow control, congestion control, switching principles, routing essentials, network resource management, performance issues, security fundamentals, multimedia networks and wireless networks design fundamentals.

Prerequisite: CENG 3310 with a minimum grade of C

CFTL 2010 2 credits

Instructional Skill for Industry: Educator Skills (2,0,0)

The purpose of this course is to provide industry and community trainers with instructional skills to prepare them for classroom teaching. The course will present tools, techniques and terminology for the new instructor to hit the ground running and to be effective educators.

Prerequisite: Water Treatment Technology Level 3 Certificate (or industry certification or equivalent). One of the following guidelines must be met: 73% on the combined English 12 and Government exam (within the last 5 years), or Level 4 on the composition section of the Language Proficiency Index (within the last 2 years), or completion of ENGL 0600, or completion of ESAL 0570 and ESAL 0580 with a grade of C+ or better

CFTL 2020 2 credits

Instructional Skills for Industry: Learning Theory (2,0,0)

The purpose of this course is to provide industry and community trainers with a range of theories regarding teaching and learning for adults. This course will introduce the student to current learning theories of adult education and their application to industry training. The course will focus on the characteristics of adult learners, principles of adult education within a cultural context, and theoretic approaches to learning that promote a learner-centered, teacher facilitated learning environment.

Prerequisite: Water Treatment Technology Level 3 Certificate (or industry certification or equivalent). One of the following guidelines must be met: 73% on the combined English 12 and Government exam (within the last 5 years), or Level 4 on the composition section of the Language Proficiency Index (within the last 2 years), or completion of ENGL 0600, or completion of ESAL 0570 and ESAL 0580 with a grade of C+ or better

CFTL 2030 2 credits

Instructional Skills for Industry: Practicum (2,0,0)

This course prepares the student to experience hands-on, practical training through the delivery of a series of classroom lessons in a peer based learning environment within a real-life classroom setting. Students experience peer and instructor feedback and self-reflective practices to improve the quality of their teaching practice.

Prerequisite: CFTL 2010 and CFTL 2020

CHBI 3980 1 credits

Introduction to Research (0,1,0)

This course is available to 3rd year students contemplating entry into the Honours program or undertaking a directed studies research project in their 4th year. The seminar enables students to focus on the formulation of a research hypothesis and the production of a research proposal, in preparation for their application to do an Honours or Directed Study research project. Honours students are expected to take this course, although the learning objectives may be completed under the supervision of an individual faculty member.

Prerequisite: 3rd year standing in a Bachelor of Science degree or Bachelor of Natural Resource Science degree program

CHBI 4980 2 credits

Honours Seminar (0,2,0)

This course allows students enrolled in the Chemical Biology Honours program to explore and discuss topics of general interest to scientists, with a focus on how scientific research is carried out and presented. Honours students are provided with constructive criticism of their thesis research projects and presentation skills. Seminars consist of readings, group discussions, and presentations by students, interested faculty and guest speakers.

Prerequisite: Acceptance into the Chemical Biology Honours program. The general requirements for acceptance are: 4th year standings in the B.Sc. program with a Major in Chemical Biology, a minimum GPA of 3.0 during the first, second and third years of study in the Chemical Biology Major program, with no less than a grade of B- in all required BIOL, CHEM and ENGL courses, identification of supervisors for the Honours research project, submission of a research proposal to the Chemical Biology Honours Committee by May 15, before registration for 4th year.

Corequisite: CHBI 4990

CHBI 4990 6 credits

Honours Thesis in Chemical Biology (L)

Students in the Chemical Biology Honours program of the Bachelor of Science (B.Sc.) degree conduct original research projects. The projects are completed under the direction of individual faculty members from Biology and Chemistry. A scientist from outside the university may act as a supervisor, with co-supervision by a Biology or Chemistry faculty member. Students accepted into the Chemical Biology Honours program register in this course in both the fall and winter semesters of their final academic year.

Prerequisite: 4th year standing in the B.Sc. program with a Major in Chemical Biology; a minimum GPA of 3.0 during the first, second and third years of study in the Chemical Biology Major program, with no less than a grade of B- in all required BIOL, CHEM and ENGL courses; identification of supervisors for the Honours research project; and submission of a research proposal to the Chemical Biology Honours Committee by May 15, before registration for 4th year.

Corequisite: CHBI 4980

CHEM 500 4 credits

Foundations of Chemistry 1 (5,0,2)(L)

ABE - Advanced: This course is designed for those students who have taken no previous high school chemistry course but who now require the equivalent of Chemistry 11 for entry into a certain program or course. Topics covered include chemical arithmetic, chemical nomenclature, chemical formula calculations, energy, solutions, atomic theory, chemical bonding, acids and bases, and physical properties. The laboratory reinforces concepts introduced in the lectures.

Prerequisite: Principles of Math 11 or Applications of Math 12, or MATH 0500 or equivalent

Note: This course is taught by the University Preparation department

Required Lab: CHEM 0500L

Exclusion: 0501

CHEM 600 4 credits

Foundations of Chemistry 2 (5,0,2)(L)

ABE - Provincial: A pre-university level course for students requiring a more in-depth introduction to chemistry than provided by CHEM 0500 or Chemistry 11. The course is an acceptable prerequisite for CHEM 111. Topics covered will be similar to those dealt with in Chemistry 12 and will include gas laws, reaction kinetics, chemical equilibrium, solubility of ionic substances, acids and bases, oxidation-reduction and organic Chemistry. The laboratory exercises will illustrate and reinforce topics covered in the lectures.

Prerequisite: Chemistry 11 or CHEM 0500

Corequisite: Principles of Math 12, or MATH 0600 or equivalent, is strongly recommended

Note: This course is taught by the University Preparation Department

Required Lab: CHEM 0600L

CHEM 1310 3 credits

The World of Chemistry (3,0,0)

This course will look at a variety of chemistry issues that have changed history or are in the news today. Everything from Napoleon's buttons to climate change will be covered. No backgrounds in Science or Mathematics is required. This is an introductory chemistry course for non-Science students. This is a credit course for all bachelor degrees except Science.

Prerequisite: First Year Standing

Note: CHEM 1310 is designed as an introductory science course for those who have taken no previous Chemistry and who do not intend to major in the sciences. No credit will be given for CHEM 1310 towards a B.Sc. Credit will be given towards a B.A. degree.

CHEM 1500 3 credits

Chemical Bonding and Organic Chemistry (4,0,3)(L)

This course provides an overview of general concepts of chemical bonding, Lewis structures, molecular shape, and valence bond theory of bonding. The organic chemistry portion of the course focuses on the bonding and structure of organic compounds, functional groups, conformational and stereochemical features, oxidation-reduction reactions, substitution and elimination reactions, and enolate chemistry. The laboratory work stresses basic precision techniques in quantitative analytical chemistry as well as experiments in instrumental analysis and organic chemistry. The laboratory also introduces students to some spectroscopic techniques.

Prerequisite: Chemistry 11 or 12; CHEM 0500 or 0600; and Pre-Calculus 12 or MATH 0600/0610

CHEM 1510 3 credits

Fundamentals of Chemistry (4,0,3)(L)

This is the second half of a fundamental first year chemistry course, designed for students who have completed CHEM 1500: Chemical Bonding and Organic Chemistry, and have a Chemistry 11 background. The topics include a brief review of stoichiometry, gas laws, thermochemistry, equilibrium and electrochemistry. Students are expected to become familiar with these topics, and demonstrate their proficiency in various laboratory techniques. The laboratory stresses fundamental precision techniques in quantitative analytical and physical chemistry.

Prerequisite: CHEM 1500 (minimum C-) and Chemistry 11 or CHEM 0500 | Required Lab: CHEM 1510L

CHEM 1520 3 credits

Principles of Chemistry (3,0,3)(L)

This course is the second half of first year chemistry designed for students with a strong background in Chemistry. The Department of Chemistry defines a strong background as at least a B in Chemistry 12 or CHEM 0600; however, the course is available to any student with CHEM 1500 and Chemistry 12 or CHEM 0600. The topics include gas laws, equilibrium, redox reactions, electrochemistry, thermochemistry, entropy and free energy. Students are expected to become familiar with these topics during the course, and demonstrate their proficiency in various laboratory techniques. The laboratory stresses fundamental precision techniques in quantitative analytical and physical chemistry.

Prerequisite: CHEM 1500 (C- minimum) and Chemistry 12 or CHEM 0600 (a grade of B or better is recommended) or acceptance into the Engineering Program

Required Lab: CHEM 1520L

CHEM 2000 3 credits

Relativity and Quanta (3,1,0)

Students explore special relativity: Lorenz transformations; and dynamics and conservation laws. The quantum physics section of this course includes the experimental evidence for quantization, and a qualitative discussion of the concepts of quantum mechanics and their application to simple systems of atoms and nuclei. This course is identical to PHYS 2000.

Prerequisite: PHYS 1100/1200 or PHYS 1150/1250, MATH 1130/1230 or MATH 1140/1240 or MATH 1150/1250

Note: Students may receive credit for only one of either CHEM 2000 or PHYS 2000

Required Seminar: CHEM 2000S

CHEM 2100 3 credits

Introductory Analytical Chemistry (3,0,3)(L)

Students are introduced to the principles of analytical chemistry and their practical application to solution samples. Topics include statistical method of data analysis, quantitative principles of chemical equilibrium, and fundamental concepts of gravimetric, spectrophotometric, electrochemical, and chromatographic methods of analysis. In the laboratory component, students perform experiments using the same state-of-the-art instrumentation used in many commercial and research laboratories. An analysis of samples of clinical, environmental, and biochemical interest is completed to illustrate the material discussed in lectures.

Prerequisite: CHEM 1500 (minimum C- grade) and either CHEM 1510 or 1520 (minimum C- grade)

Required Lab: CHEM 2100L

CHEM 2120 3 credits

Organic Chemistry 1 (3,0,3)(L)

This course is a study of the compounds of carbon with an emphasis on reaction mechanisms, to illustrate the basic principles of organic chemistry. The topics include structure and bonding, preparations and reactions of the functional groups, and stereochemistry. Biological and biochemical applications are also discussed. The laboratory work illustrates basic separation, purification and identification techniques, and spectroscopic techniques are introduced.

Prerequisite: CHEM 1500 (minimum C- grade) and either CHEM 1510 or 1520 (minimum C- grade)

Note: ECHE 1110/ECHE 1210 are not prerequisites for 2nd year Chemistry courses. Engineering students who may wish to take 2nd year Chemistry courses should meet with their Engineering Advisor and the Chair of the Department of Physical Sciences as early as possible.

CHEM 2160 3 credits

Structure, Bonding and Spectroscopy (3,0,0)

Students develop fundamental quantum ideas in chemistry and apply them to topics in chemical bonding and spectroscopy. Bonding concepts revolve around electrostatic models applied to ionic compounds and transition metal complexes. Covalent bonding is approached from the molecular orbital point of view, while students survey homo- and heteronuclear diatomics, and briefly consider larger molecules. Fundamental concepts in spectroscopy are introduced, and vibrational, electronic, nuclear magnetic resonance (NMR) and electron spin resonance (ESR) spectroscopy is discussed. Fundamental aspects of symmetry guide several of these treatments.

Prerequisite: CHEM 1500 (minimum C- grade) and either CHEM 1510 or 1520 (minimum C- grade)

CHEM 2220 3 credits

Organic Chemistry 2 (3,0,3)(L)

This course is a continuation of CHEM 2120: Organic Chemistry 1, in which students further explore the principles of organic chemistry. Topics include structure and bonding; preparations and reactions of the functional groups; stereochemistry; biological and biochemical applications; and basic separation, purification, identification, and spectroscopic techniques in the laboratory.

Prerequisite: CHEM 2120 (C- minimum)

Required Lab: CHEM 2220L

CHEM 2250 3 credits

Fundamentals of Physical Chemistry (3,0,3)(L)

This course, intended for science majors, introduces chemical kinetics and thermodynamics with applications to gas behaviour and phase and reaction equilibria. The laboratory work involves preparative and kinetic studies, as well as the experimental study of the aspects of thermodynamic measurements.

Prerequisite: CHEM 1500 (minimum C- grade) and either CHEM 1510 or 1520 (minimum C- grade); MATH 1230 or 1240 or 1250 (MATH 2110 is strongly recommended)

Note: Students with credit for CHEM 2110 and CHEM 2210 will not receive credit for CHEM 2150 and CHEM 2250

Required Lab: CHEM 2250L

CHEM 3010 3 credits

Aqueous Environmental Chemistry (3,0,0)

Students are introduced to the properties and composition of natural waters. Topics include hydrologic cycle, water quality, partitioning, transport, chemical equilibria, pH, complexation, redox processes, and water treatment.

Prerequisite: CHEM 2100/2250 (C- minimum), CHEM 2120/2220 (C- minimum) is recommended

CHEM 3020 3 credits

Atmospheric Environmental Chemistry (3,0,0)

This course is an introduction to structure, composition, and chemical processes occurring in the Earth's atmosphere. These include interactions with solar radiation, stratospheric ozone layer, photochemical smog, and acid rain.

Prerequisite: CHEM 2160/2250 (C- minimum)

CHEM 3060 3 credits

Physical Chemistry 1 (3,0,0)

Prior knowledge of physical chemistry is required for this upper-level course. Students explore four main

topics: phase equilibrium, chemical equilibrium, solutions of electrolytes, and electrochemistry.

Prerequisite: CHEM 2160/2250 (C- minimum); CHEM 2120/2220 (C- minimum) is recommended

CHEM 3070 3 credits

Physical Chemistry 2 (3,0,0)

This course is a continuation of CHEM 3060. The course topics include chemical kinetics, elements of spectroscopy and introductory statistical thermodynamics. This course assumes prior knowledge of thermodynamics, chemical equilibrium and basic chemical kinetics.

Prerequisite: CHEM 3060 (C- minimum)

CHEM 3080 1 credits

Physical Chemistry Laboratory (0,0,4)

In this laboratory course, students perform a selection of physical chemistry experiments to illustrate various physical chemical principles.

Prerequisite: CHEM 3060 (C- minimum)

CHEM 3100 3 credits

Instrumental Analysis (3,0,0)

Students are introduced to the wide range of instrumental methods used in chemical analysis, as they are applied to modern analytical chemistry. The topics include statistical evaluation of chemical data, electrochemical methods, optical spectroscopic methods, mass spectrometry and chromatography.

Prerequisite: CHEM 2100/2250 (C- minimum)

CHEM 3120 1 credits

Instrumental Analysis Laboratory (0,0,4)(L)

This laboratory course is designed to accompany CHEM 3100: Instrumental Analysis. Students acquire practical, hands-on laboratory experience in performing chemical analysis using the chemical instrumentation encountered in CHEM 3100. Students perform statistical evaluations of experimental chemical data.

Prerequisite: CHEM 2100/2250 (C- minimum), CHEM 3100

Corequisite: CHEM 3100

CHEM 3140 3 credits

Applied Analytical Chemistry (3,0,0)

This course will focus on analytical method development, including sampling and sample handling, extraction, determination, and data acquisition. The analysis of organic and inorganic compounds in a variety of matrices will be discussed. Case studies from the literature will illustrate typical applications.

CHEM 3170 1 credits

Instrumental Analysis Laboratory for Chemical Biology (0,0,4)(L)

This is a laboratory course designed to give students practical hands-on experience with the instrumentation discussed in CHEM 3100: Instrumental Analysis. Students focus on the needs of chemical biologists while performing a variety of chemical analyses and gaining independent experience in analytical experimental design and method application to real samples.

Prerequisite: CHEM 2100 and 2250 (minimum C- grade)

CHEM 3220 3 credits

Advanced Organic Chemistry (3,0,0)

This is a lecture course that covers the theory and practice of modern organic synthesis. The emphasis is on important carbon-carbon bond forming reactions, significant reactions of functional groups and the use of protecting group strategies in organic synthesis. In addition, the chemistry of amino acids, peptides, carbohydrates and heterocycles is studied in the context of the above topics.

Prerequisite: CHEM 2120/2220 (C- minimum)

CHEM 3230 3 credits

Organic Spectroscopy (3,0,0)

This is a lecture course that covers the theory and practice of modern spectroscopic techniques for the structural elucidation of organic compounds. The emphasis is on both the theory and practice of spectroscopic techniques, particularly NMR spectroscopy, for determining the structures of pure organic compounds.

Prerequisite: CHEM 2120/2220 (C- minimum)

CHEM 3240 1 credits

Organic Chemistry Laboratory (0,0,4)(L)

In this laboratory course, students perform a selection of organic chemistry experiments that are designed to develop synthetic skills and application of spectroscopic techniques to organic molecules.

Prerequisite: CHEM 2120/2220 (C- minimum)

CHEM 3310 3 credits

Inorganic Chemistry 1 (3,0,0)

Students are introduced to the varied aspects of transition metal chemistry and a wide variety of techniques which have been applied to these systems. Topics include coordination numbers, stereochemistry, diastereomers, enantiomers, coordination equilibria, and the kinetics and mechanisms of substitution and electron transfer reactions. Crystal field and molecular orbital descriptions of bonding are developed and applied to electronic spectra and magnetic properties. Application to some bioinorganic systems are introduced.

Prerequisite: CHEM 2160/2250 (C- minimum)

CHEM 3320 3 credits

Inorganic Chemistry 2 (3,0,0)

Students are introduced to the varied aspects of main group chemistry and a wide variety of techniques which have been applied to these systems. Topics include ionic bonding and the solid state, simple ideas of covalent bonding, and molecular orbital descriptions of main group compounds. A systematic survey of selected chemistry of main group elements may be conducted.

Prerequisite: CHEM 3310 (C- minimum)

CHEM 3330 1 credits

Inorganic Chemistry Laboratory (0,0,4)(L)

In this laboratory course, students perform a selection of inorganic chemistry experiments that are designed to develop synthetic skills and application of spectroscopic and magnetic techniques to inorganic systems.

Prerequisite: CHEM 3310 (C- minimum)

CHEM 3730 3 credits

Introduction to Biochemistry (3,0,0)

Students are introduced to cellular chemistry and the structure and function of biological molecules including nucleic acids, enzymes and other proteins, carbohydrates, lipids, and vitamins. Students also explore metabolic pathways and bioenergetics including DNA synthesis, transcription and translation, glycolysis, fermentation and respiration, oxidation of fatty acids, and photosynthesis.

Prerequisite: CHEM 1500 (minimum C- grade) and either CHEM 1510 or 1520 (minimum C- grade); CHEM 2120 and 2220; BIOL 1110 and acceptance into the Major in Chemistry or the Major in Environmental Chemistry Programs

Note: This course is the same as BIOL 3130 except it is only available to Chemistry and Environmental Chemistry majors

CHEM 4070 3 credits

Selected Topics in Physical/Environmental Chemistry (3,0,0)

This lecture course will consider in depth a selection of topics drawn from the areas of Physical Chemistry and Environmental Chemistry. The particular topics chosen may vary each time the course is offered.

Prerequisite: CHEM 3010, CHEM 3020 and CHEM 3060 (C- minimum)

Corequisite: CHEM 3010 and/or CHEM 3020

Note: CHEM 4070 is offered in odd numbered years.

CHEM 4090 3 credits

Introductory Computational Chemistry (3,0,0)

This is an introductory course on computational chemistry with a primary focus on the practical aspects of this subject. Students will be introduced to the methods currently used, the approximations involved and the ways in which these approximations can by systematically improved. Computational chemistry methods will be applied to the investigation of various chemical/environmental problems.

Prerequisite: CHEM 3060 (C- minimum); MATH 2120 is recommended.

CHEM 4220 3 credits

Selected Topics in Organic Chemistry (3,0,0)(Options A and B)

Students consider (Option A) the isolation, structural identification, and synthesis of secondary metabolites produced by living things, either as a defence strategy against other organisms or for some other biochemical purpose; OR (Option B) principles and factors which govern the course of organic chemical reactions and the reactivity of organic molecules. Prerequisite: CHEM 3220 (C- minimum)

Note: CHEM 4220 is offered in the winter semester of 'even' numbered years

CHEM 4320 3 credits

Selected Topics in Inorganic Chemistry (3,0,0)(Options A and B)

Students consider (Option A) the chemistry of compounds containing organic groups directly bonded to metals and metalloids via a metal-carbon bond, with emphasis placed on the structure and bonding of the compounds and their use in synthetic, catalytic and industrial chemistry; OR (Option B) the chemistry of inorganic compounds in the functioning of biological systems, with emphasis on the structure and bonding of the metal in biologically active

systems, and the use of inorganic compounds as drugs and diagnostic probes.

Prerequisite: CHEM 3310 (C- minimum)

Note: CHEM 4320 is offered in the winter semester of 'even' numbered years

CHEM 4400 1 credits

Advanced Analytical Chemistry Laboratory (0,1*,3*)(L)

This is a half-semester (6-week) advanced laboratory course in analytical chemistry in which students apply instrumental methods to the chemical analysis of real sample types.

Prerequisite: CHEM 3100/3120 (C- minimum)

CHEM 4410 1 credits

Advanced Inorganic Chemistry Laboratory (0,1*,3*)(L)

This is a half-semester (6 week) advanced laboratory course in Inorganic Chemistry which is concerned with the development of synthetic skills, especially using modern, air-sensitive reagents. The application of spectroscopic techniques to inorganic and organometallic systems will be emphasized.

Prerequisite: CHEM 3330 (C- minimum)

Required Lab: CHEM 4410L

CHEM 4420 1 credits

Advanced Organic Chemistry Laboratory (0,1*,3*)(L)

This is a half-semester (6-week) advanced laboratory course in organic chemistry which illustrates advanced techniques and modern synthetic methods found in recent organic chemistry research literature.

Prerequisite: CHEM 3220/3230/3240 (C- minimum)

Note: CHEM 3230 may be acceptable as a corequisite with permission of the instructor

Required Lab: CHEM 4420L

CHEM 4430 1 credits

Advanced Physical and Environmental Chemistry Laboratory (0,1*,3*)(L)

This is a half-semester (6-week) advanced laboratory course in physical and environmental chemistry which illustrates relevant physical chemistry principles in selected areas of physical and environmental chemistry.

Prerequisite: CHEM 3020/3080 (C- minimum)

Note: CHEM 3020 may be acceptable as a corequisite with permission of the instructor

Required Lab: CHEM 4430L

CHEM 4450 3 credits

Advanced Chemical Biology (2,1,3)(L)

Lectures and seminars examine the interface of chemistry and biology, and practical laboratory experience introduces students to advanced chemical biology techniques. The emphasis is on providing the knowledge and theory behind biological systems from a chemical perspective, while exposing students to the modern laboratory techniques that are of current value in the biotechnology and pharmaceutical industries. These industries require professionals who have a strong background in organic chemistry, molecular biology and genomics. Current journal articles are incorporated into a problem-based learning approach that has students researching background material in order to complete an assigned project experiment.

Prerequisite: CHEM 3220/3230/3240 (C- minimum); BIOL 3230/3350 (C- minimum)

Required Lab: CHEM 4450L

Required Seminar: CHEM 4450S

CHEM 4480 3 credits

Directed Studies in Chemistry (L)

Students investigate a specific topic involving experimental work as agreed upon by the student and her/his faculty supervisor and co-supervisor. This course provides experience with research techniques and the presentation of results.

Prerequisite: Acceptance into Chemistry or Environmental Chemistry Major; approval of supervisor and co-supervisor

CHEM 4600 3 credits

Selected Topics in Applied Chemistry (3,0,0)

This lecture course is divided into modules that focus on applied aspects of several branches of chemistry. The selection of modules available in any particular year may vary due to instructor availability. Topics may include advanced extraction techniques and instrumentation, catalysis, chemometrics, combinatorial chemistry, materials science, medicinal chemistry, petroleum chemistry, polymer chemistry, supramolecular chemistry, and water and waste treatment.

Prerequisite: CHEM 3060/3100/3220/3310 (C- minimum) and permission of the instructor

Note: CHEM 4600 is offered in the winter semester of 'odd' numbered years

CHIN 1110 3 credits

Introductory Chinese 1 (3,0,1)(L)

This course enables beginners to develop cultural knowledge and communicative skills in speaking, listening, reading and writing in modern standard Chinese (Mandarin). Upon successful completion of this course, students are expected to demonstrate a CEFR A1 level of proficiency.

Note: Students who have completed Chinese (Mandarin) in Grade 11 or equivalent within the last two years may not take this course for credit unless approved by Modern Languages.

CHIN 1210 3 credits

Introductory Chinese 2 (3,0,1)(L)

This course builds upon skills acquired in CHIN 1110 to further develop cultural knowledge and communicative skills in speaking, listening, reading and writing in modern standard Chinese (Mandarin). Upon successful completion of this course, students are expected to demonstrate a CEFR A1+ level of proficiency.

Prerequisite: CHIN 1110 or equivalent

Note: Students who have completed Chinese (Mandarin) in Grade 11 or equivalent within the last two years may not take this course for credit unless approved by Modern Languages.

CMNS 1150 3 credits

Advertising as Communication (3,0,0)

Students examine advertising as a form of professional and cultural communication through the lens of communication studies, informed by a variety of theoretical perspectives including semiotics, rhetoric, cultural analysis, and visual design. As well, students explore advertising as representation in the contexts of intercultural communication. Students consider advertising both as message and as process of communication, examining how symbols are used to create meaning and engage ideological frameworks across different social and cultural environments, across historical periods and in the contexts of changing communications technologies.

Note: that students cannot receive credit for both CMNS 1150 and CMNS 1151

CMNS 1160 3 credits

Introduction to Communications (3,0,0)

Students think critically about a range of communication theories tied to examples from popular culture and address how we transmit information, how we create meaning, and how we persuade others, with a focus on many communication contexts, including interpersonal communication, group and organizational communication, public space, mass media, and culture and diversity. Students explore what it means to communicate in these various contexts, and appreciate the contribution of theory to helping us understand what we do when we communicate and why it sometimes goes wrong.

Note: Students cannot receive credit for both CMNS 1160 and CMNS 1161

CMNS 1290 3 credits

Introduction to Professional Writing (3,0,0)

Students study the theories and practice of professional organizational communication, learning the importance of effective communication to meeting goals, developing and maintaining relationships and the overall facilitation of work. Students develop skills in evaluating communication scenarios, designing communication strategies that meet goals and audience need, including requests, information sharing and persuasion. In addition, students learn to employ writing techniques and editorial skills relevant to professional communication contexts.

Note: Students cannot receive credit for more than one of CMNS 1290, CMNS 1291, CMNS 1810, CMNS 1811

CMNS 1300 3 credits

Professional Writing for Horticulture (3,0,0)

Students in the Horticulture program study the best practices of professional writing. Students develop writing and speaking skills, as well as strategies for document planning and organization to meet goals and audience needs.

Students produce effective and relevant professional communications, including memos, letters and short reports, to conduct requests, share information, and make persuasive recommendations. Students also develop oral communication skills to assist them in working with teams and clients.

Prerequisite: Admission to the Horticulture program

Note: Students cannot receive credit for both CMNS 1300 and ENGL 1300

CMNS 1310 3 credits

Advanced Professional Writing for Horticulture (3,0,0)

Students in the Horticulture program study a variety of core communication forms used in their field. Building on the professional writing skills covered in CMNS 1300, students develop skills in job search and employment writing, portfolio and promotional material development, oral communication, document and visual design, and proposal writing. Students also develop their oral communication skills to assist in working with teams and clients.

Prerequisite: Admission to the Horticulture program and CMNS 1300

Note: Students cannot receive credit for both CMNS 1310 and ENGL 1310

CMNS 1490 3 credits

Technical Communication for Applied Industrial Technology (3,0,0)

This course emphasizes effective technical communication skills in the field of electronics. Students review basic writing skills and create business correspondence, such as technical instructions, technical description, an informal recommendation report, and an oral presentation.

Prerequisite: Acceptance in the Electronics program

Note: Students cannot receive credit for both CMNS 1490 and ENGL 1490

CMNS 1500 3 credits

Digital Photography (2,1,0)

Students explore the basics of photography with the use of a digital camera and current industry software. Students learn to capture excellent images in camera with both natural (available) and artificial light and examine the technical and aesthetic aspects of photographic composition. Students learn a variety of techniques and strategies for effective photo finishing, manipulation, printing and publishing.

Note that students cannot receive credit for both DAAD 1500 and CMNS 1500

CMNS 1660 3 credits

Occupational Writing for Animal Health Technologists (3,0,0)

Students in the Animal Health Technology program are introduced to the core communication documents used in their occupation. Students develop writing and speaking skills, as well as strategies for document planning and organization, to produce effective and relevant professional communications, including employment writing, general correspondence, instructions, procedures, and basic information reports. Students also develop oral communication skills to assist them in working with teams and clients.

Prerequisites: Admission to the Animal Health Technology program

Note: Students cannot receive credit for both CMNS 1660 and ENGL 1660

CMNS 1750 3 credits

Graphic Application and Design I (2,1,0)

Students learn the theories, processes, hardware, and software used in solving illustration or image-based visual problems while creating computer-generated work. Students will examine and assess a variety of genres and forms of graphic design to consider the historical development and changing techniques from the past. Students develop their design solutions from a sketch or storyboarding through to print for applications including desktop publishing and prepress, multimedia, video, and web development. Students use hardware and software commonly used in the design industry.

Note that students cannot receive credit for both CMNS 1750 and DAAD 1750.

CMNS 1760 3 credits

Typography and Professional Layout (2,1,0)

Typography is the study of lettering and its importance as an element of graphic design. Students study the history of typography, key terminology and essential design and layout principles. With hands-on practice, students learn to match meaning with type in layouts and employ creative methods of typographic communication. Students develop in-depth skills in desktop publishing software and participate in discussions and critiques as they give and receive peer feedback.

Prerequisite: CMNS 1750

CMNS 1810 3 credits

Professional and Academic Composition (3,0,0)

Students learn the theory and practice of successful academic and professional writing. Students compare and apply techniques involved in writing for business and academic purposes, learning skills in audience assessment, document planning and design, research, and effective writing. Students complete assignments ranging from academic essays to a variety of professional communication documents.

Note: Students cannot receive credit for more than one of CMNS 1810, CMNS 1291, ENGL 1810, CMNS 1811 or CMNS 1290

CMNS 1850 3 credits

Occupational Writing for ARET (3,0,0)

Students in the ARET program examine core communication documents they will need in their field. Students develop writing and speaking skills suitable to a professional context, as well as strategies in document planning and design to meet the needs of specific communication scenarios, producing general correspondence, instructions, technical descriptions and reports. Students are introduced to methods for conducting effective research and for designing documents with appropriate visuals.

Prerequisite: Admission to the Architectural and Engineering Technology Program

Note: Students cannot receive credit for both CMNS 1850 and ENGL 1850

CMNS 1910 3 credits

Report Writing and Business Presentations (3,0,0)

Students develop skills in business communication and persuasion. Students focus on the content, organization, and format of various types of business reports; on the process of writing them; on methods of documenting their sources of information; and on orally presenting such reports to professional audiences.

Prerequisite: Acceptance into the Accounting Technician or Business Diploma programs. Students must have completed CMNS 1810 and/or completed an equivalent

Note: Students cannot receive credit for both CMNS 1910 and ENGL 1910

CMNS 1920 3 credits

Professional Presentation and Communication (3,0,0)

Students develop skills in business communication, employment search, and persuasion. Students focus on the content, organization, documentation and format of various types of business reports; on the professional employment search; and on the effective oral presentation.

Prerequisite: Acceptance into the Tourism Diploma program. Students must have completed CMNS 1810 and/or completed an equivalent

Note: that students cannot receive credit for both CMNS 1920 and ENGL 1920

CMNS 1970 3 credits

Occupational Writing for RT Students (3,0,0)

Students in the Respiratory Therapy program examine the core communication documents used in their occupation. Building on the professional and academic writing and research skills covered in CMNS 1810, students will develop strategies for producing relevant technical communications, including instructions, procedures, and basic information reports. Students will also develop their oral communication skills to assist them in working with teams and clients.

Prerequisites: Acceptance into the Respiratory Therapy Program AND CMNS 1810 with C- minimum OR CMNS 1811 with a C- minimum or equivalent professional writing course

CMNS 1980 3 credits

Professional Presentation/Communication, Police and Justice Studies (3,0,0)

Students in the Police and Justice program examine core communication forms in their field, expanding on skills learned in CMNS 1810. Students develop writing and speaking skills, along with skills in interpreting communication scenarios, to produce effective professional verbal and written communication. Students learn best practice strategies for content, organization and production of various police reports, as well as the oral presentation of information. Students also develop skill in interviewing and research.

Prerequisites: Acceptance into the Police and Justice Program AND CMNS 1810 with C- minimum or equivalent OR CMNS 1811 with a C- minimum or equivalent professional writing course.

CMNS 2100 3 credits

Selected Topics in Communication Studies (3,0,0)

Students explore and experiment with a number of different communication concepts and products. The exact nature of the material covered will vary with student interest and the availability of instruction.

CMNS 2160 3 credits

Mass Communication and the Popular Culture Industry (2,1,0)

Students are provided a perspective based on professional practices within the total media environment in which our society operates. This includes an examination of the historical, sociological and economic realities of industries such as television, film, music, advertising, public relations and journalism.

CMNS 2170 3 credits

Interpersonal Communication (3,0,0)

Students learn a range of theories and perspectives related to interpersonal communication. Emphasis will be on understanding the importance of effective interpersonal communication to establishing and maintaining relationships as well as achieving goals in social and workplace environments. Students assess the use of interpersonal communication in given scenarios and are encouraged to reflect on and improve their own interpersonal communication skills. This study of interpersonal communication includes several contexts, including the workplace, social and family environments.

Note: Students cannot receive credit for both CMNS 2170 and CMNS 2171

CMNS 2180 3 credits

Social Networks, Online Identities and Internet Memes (3,0,0)

This course explores the recent proliferation of communication tools known as social media. Students consider how collaborative networks create and foster unique models of identity construction and offer opportunities for new methods of creating knowledge. Students examine these issues through hands-on approaches and on-line assignments.

CMNS 2200 3 credits

Technology and Communication (3,0,0)

Students explore the interface of technology and communication, from the telegraph to the Web, by examining historical and present cases. Students learn how people adapt to, and innovate within, the limitations to communications imposed by technology, and are informed about the choices they face in their personal use of media and technology. This course qualifies as a Writing Intensive designated course.

CMNS 2290 3 credits

Technical Communication (3,0,0)

Students study a variety of technical communications used to document professional activity, including proposals, technical and formal reports, policies and procedures, technical descriptions and definitions, and instructions. Students learn the importance of documentation and accountability as part of professional due diligence, applicable across many fields including journalism, business, government, public service, consulting and research institutes. Students develop skills in assessing communication needs in a scenario, identifying communication goals, audience need and relevant media. Finally, students learn skills in research and synthesis to ensure professional engagement and presentation of research material.

Prerequisites: CMNS 1291 OR CMNS 1290 OR ENGL 1100 OR ENGL 1101

Note: Students cannot receive credit for more than one of CMNS 2290, ENGL 2290 AND CMNS 2291

CMNS 2300 3 credits

Critical Thinking and Writing for Science and Technology (3,0,0)

Students analyze and discuss examples of writing from scientific and technical literature to improve their communication skills for lay and scientific audiences. Students learn to identify and produce writing styles and formats appropriate for science-based contexts and audiences, as well as develop skills in writing and documenting research documents on science and technology topics.

Prerequisites: Admission to the Bachelor of Science Program OR Bachelor of Natural Resource Science Program OR Permission of the instructor AND CMNS 1290 OR CMNS 1291 OR ENGL 1100 OR ENGL 1101

Note: Students cannot receive credti for both CMNS 2300 and ENGL 2300

CMNS 2500 3 credits

Digital Imaging and Editing (1,2,0)

Students explore the intermediate principles of lighting and image-capture design and study a variety of approaches and techniques to improve the quality of their images including: working with studio and portable electronic flash systems; augmenting existing light sources; and working with natural light. Through lectures, workshops and assignments, students improve their ability to consistently produce industry quality digital images.

Prerequisite: DAAD 1500

CMNS 2750 3 credits

Graphic Application and Design II (1,2,0)

Students explore advanced and complex theories and processes of graphic application and design, as well as use advanced techniques in hardware and software to solve technical and complex illustration and photographic visual problems. Students acquire advanced skills in hardware and software commonly used in the industry, and create computer-generated imagery. Students develop solutions from sketch through to print and network-based output for applications including desktop publishing and prepress, multimedia, and web development.

Prerequisite: CMNS 1750

CMNS 2840 1 credits

Applied Research Project Planning (1,0,0)

Students are supported in the completion of their Applied Research Project. In the seminar, students focus their research topics, develop an applied research question, and prepare a comprehensive project proposal and literature review. Students are guided through the research and analysis phases of their project, developing skills in defining an applied topic, determining scope and methodology, conducting and writing up research for a literature review, conducting primary research, experimentation and analyses, and managing project development and progress.

Prerequisite: CMNS 1850 OR ENGL 1100

Note: students cannot receive credit for both CMNS 2840 and ARET 2220

CMNS 2850 3 credits

Advanced Occupational Writing for ARET (3,0,0)

Students in ARET build on CMNS 1850, learning skills needed to complete a formal technical research report at industry-level standard. Students produce a major analytical report based on their summer research projects. Students develop abilities to plan and organize a major project, conduct and analyze research, and write and design visuals for a professional context.

Prerequisites: Admission to the Architectural and Engineering Technology program AND CMNS 1850 OR Permission of the instructor

Note: Students cannot receive credit for both CMNS 2850 and ENGL 2850

CMNS 3000 3 credits

Research Methods in Communication (3,0,0)

This course provides an overview of the philosophy and practice of communication research. Students are introduced to a range of methods for research in communication and media studies, combining theoretical and epistemological issues with methodological concerns. This course qualifies as a Writing Intensive designated course.

Prerequisite: Completion of 45 credits (any discipline)

CMNS 3020 3 credits

Travel Media (3,0,0)

This course studies novels, journals, blogs, films, and guidebooks in order to understand and produce texts in the complex matrix called "travel media." It examines many examples of travel media, both commercial and personal in order to understand how it has developed and currently works. These examples are considered from many perspectives such as the figure of "the Other," colonialism, the flaneur, postmodernism, and even visual and document design. The course considers the strategies of design that constitute the various genres of travel media, from logs, vlogs, and multimedia, to guides, and even stories.

Note: that students cannot receive credit for both CMNS 3020 and ENGL 3020

CMNS 3050 3 credits

Communication Marketing and Design (3,0,0)

Students are introduced to the practical and theoretical aspects of professional and technical writing from rhetorical and semiotic perspectives. Topics may include information design, visual rhetoric, advertising and digital design.

Prerequisite: Completion of 45 credits (any discipline)

CMNS 3070 3 credits

*****Studies in Rhetoric (3,0,0)**

This course covers special topics in rhetorical theories and their applications.

Prerequisite: Completion of 45 credits (any discipline)

Note: students cannot receive credit for both CMNS 3070 and ENGL 3070

CMNS 3080 3 credits

Advanced Composition 1 - Personal Expression (3,0,0)

This course focuses on the rhetoric of personal expression, especially description and narration. Students are introduced to the concept of how multiple literacies variously compete and interact in the world around us. In practical terms, students explore how personal expression can be used to improve writing skills at an advanced level. This course is open to all third-year students and is designed to be especially relevant to students contemplating a career in Journalism, Education, or Communications.

Prerequisite: Completion of 45 credits (any discipline)

CMNS 3160 3 credits

Media, Entertainment & Popular Culture (3,0,0)

Students examine an array of trending concerns in media, entertainment and popular culture. Students will consider competing perspectives on a variety of media and social issues, in particular, the tension

between media content, regulation and commerce. Students engage with classic and contemporary debates within the field of communication and media studies.

Prerequisite: Completion of 45 credits (any discipline)

Note: students cannot receive credit for both CMNS 3160 and CMNS 3161

CMNS 3200 3 credits

Citizen and Consumer Identities in Networked Culture (3,0,0)

Students explore the practices and responsibilities of the citizen and the consumer in the context of networked culture, considering ways in which these roles are defined and distinguished in digital space. Particular focus is placed on the question of control over access to knowledge and information and on the interdependence of social participation and surveillance through digital platforms. As well, students explore methods and models for citizen activism and civic engagement through networked platforms. Students learn to engage the inherent contradictions and tensions within these issues as they focus on how keywords are deployed within a variety of cultural narratives.

Prerequisite: Completion of 45 credits (any discipline)

Note: students cannot receive credit for both CMNS 3200 and CMNS 3201

CMNS 3210 3 credits

Digital Communities (2,1,0)

Students think critically about the challenges and opportunities of community in the digital era. Through a survey of research in the fields of social media, students consider the effects of our networked culture on media participation, as well as consumer and civic engagement. Students consider the current state of digital media creation and consumption and propose and develop engaging social media strategies that help users connect, create and provide digital content for intended publics.

Prerequisites: Completion of 45 credits in any discipline

Note: Students cannot receive credit for both CMNS 3210 and CMNS 3211

CMNS 3230 3 credits

Information Design (3,0,0)

Students investigate the theory and practical design of the delivery of information in professional and everyday contexts. Topics may include typography, weight, line, space, color and image. Media may include recipes, forms, data arrays, instructional manuals, quick reference guides, graphic novels and webpages.

Prerequisite: Completion of 45 credits (any discipline)

Note: students cannot receive credit for both CMNS 3230 and ENGL 3230

CMNS 3240 3 credits

Advanced Professional Communication (1,2,0)

Students develop best practice skills in advanced professional writing with an emphasis on the design and production of strategic and planning-level communication documents, including a formal report, with added emphasis on online communication contexts, including multimedia production and social media. In addition, students consider and develop multi-phased communication strategies, learn advanced research skills and consider techniques for effective collaboration.

Prerequisites: CMNS 1290 OR CMNS 1291 AND Completion of 42 credits

Note: Students cannot receive credit for more than one of CMNS 3240, BBUS 3631 AND CMNS 3241

CMNS 3250 3 credits

Professional and Academic Proposal Writing (2,1,0)

Students review literature on best practices for grant writing, and, through the development of a grant application, learn the key elements of the process which include defining the funding purpose, understanding mandate and accountability, adopting effective budget practices, preparing effective material, and completing post-funding due diligence. This course meets the needs of academic, research, government, health, community arts and non-profit professionals who seek the knowledge and skill to write persuasive, informative and professional grant applications.

Prerequisite: Completion of 30 credits

Note: Students may only receive credit for one of CMNS 3250 or CMNS 3251

CMNS 3500 3 credits

Selected Topics in Communication and Public Relations (3,0,0)

Students explore a selection of contemporary topics in communication theory and practice as they relate to public relations. Topics may vary depending on faculty and student interest and current developments in the field. Contact the department chair for more details.

Prerequisite: Completion of 45 credits (any discipline)

or permission of the Department Chair.

CMNS 3510 3 credits

Intercultural and Cross-Cultural Communication (3,0,0)

Students examine the way culture shapes communication practices, and focus on the issues that arise within organizations when individuals from different cultural perspectives attempt to work together. Students also investigate the ways in which different cultures interact in practice. This course qualifies as a Writing Intensive designated course.

Prerequisite: Completion of 45 credits (any discipline)

CMNS 3520 3 credits

Advanced Digital Imaging and Editing (0,3,0)

Students explore advanced principles of lighting and image-capture design and study a variety of approaches and techniques to improve the quality of their images. Through hands-on demonstrations and research, students improve their ability to produce industry standard advanced level digital images. Students use innovative methods of digital imaging, lighting and image editing including advanced digital compositing. With instructor assistance, students complete visually compelling, and conceptually cohesive portfolios (web and print). Students are required to supply their own Digital Single Lens Reflex (DSLR) camera and hot-shoe flash.

Prerequisite: CMNS 2500

CMNS 3550 3 credits

Media and Public Relations (3,0,0)

Students develop key skills and techniques used in the field of media and public relations, such as how to prepare and distribute press releases and media kits; how to arrange press conferences and media events; and how to coach organizational spokespersons in media relations.

Prerequisites: Completion of 45 credits or approval by the department chair or instructor.

Note: Students cannot receive credit for both CMNS 3550, CMNS 3551

CMNS 3560 3 credits

Digital Production (1,2,0)

Students develop their skills in visual communication through the term-long development of a presentation-level portfolio of both print and web work. Students are challenged to complete applied work under professional conditions, often with `real world' client case histories, responding to production deadlines, client-driven restrictions, and design limitations. Students develop skills in digital production through a range of computer-based tools and practices.

Prerequisite: CMNS 1750

CMNS 3600 3 credits

Studies in Communication, Film, and Digital Production (3,0,0)

Students explore a selection of contemporary topics in communication theory and practice as they relate to film studies and digital production. Topics may vary depending on faculty and student interest and current developments in the field. Contact the department chair for details. This course qualifies as a Writing Intensive designated course.

Prerequisite: Completion of 45 credits (any discipline)

CMNS 3700 3 credits

Selected Topics in Communication and New Media (3,0,0)

Students explore a selection of contemporary topics in communication theory and practice as they relate to new media. Topics may vary depending on faculty and student interest and current developments in the field. Contact the department chair for details. The course qualifies as a Writing Intensive designated course.

Prerequisite: Completion of 45 credits (any discipline)

CMNS 3800 3 credits

Communication and New Media (3,0,0)

Students examine new media studies from a communication perspective. Subjects include the distinctions between old and new media; the relationship between technology and communication; the convergence of cultural artifacts across media forms; and the influence of design principles on new media architecture. The course qualifies as a Writing Intensive designated course.

Prerequisite: Completion of 45 credits (any discipline)

CMNS 4220 3 credits

Mountain Studies (3,0,0)

Mountain Studies allows students the opportunity to engage in an intercisciplinary study of mountain environments, communities, resorts, activities, web presence, arts, sustainability, and destination

experiences, with an emphasis on undergraduate research. Topics vary from year to year; potential areas of focus include mountain culture (literature, painting, film, photography, history, new media) and web-mapping with the provision of rich content; the development and sustainability of mountain national parks in Western Canada; mountain literature and art; comparative studies of the mountain resorts that ring TRU; mountains and participant-observer new media applications; and public relations and mountain resorts.

Prerequisite: Completion of 45 credits (any discipline)

Note: students cannot receive credit for both CMNS 4220 and TMGT 4220

CMNS 4240 3 credits

Strategies in Crisis Communication (3,0,0)

Students examine an array of media and PR strategies for companies, individuals and non-profits dealing with difficult situations. In doing so, students develop communication plans that can be spread across traditional and digital platforms and solve a variety of problems. Students engage with case studies from a variety of industries that require timely and complex solutions. Classic and contemporary cases from the history of public relations and crisis resolution will be analyzed throughout the term.

Prerequisite: Completion of 45 credits (any discipline) and CMNS 3550 (Recommended)

Note: students cannot receive credit for both CMNS 4240 and CMNS 4241

CMNS 4530 3 credits

Organizational Communications (3,0,0)

Students examine the theory and practice of organizational communications which includes an overview of different models of organizational communication and management, a review of common problems and dilemmas in this field, and consideration of a variety of internal publications. Students learn problem-solving strategies unique to a variety of organizations.

Prerequisite: Completion of 45 credits in any discipline

Note: Students cannot receive credit for both CMNS 4530 and CMNS 4531

CMNS 4610 6 credits

Field Course in Documentary Film Production (6,0,0)

Students develop practical and applied skills in digital documentary film creation, from storyboarding, to camera operation, and final editing. After completing a study of theory and techniques on campus, each student produces a complete documentary, working independently in the field, at various locations, in BC, Canada and abroad.

Prerequisite: Completion of 45 credits (any discipline)

COAP 2000

Cook Workplace Apprenticeship Level 1 (180 hours)

This Cook 1 Workplace Apprenticeship Program is designed for currently employed cooks who seek the Apprentice level 1 certification. Students demonstrate their ability to follow recipes, weigh and measure food accurately, and have an understanding of the major techniques and principles used in cooking, baking, and other aspects of food preparation. A Professional Cook 1 usually works in a supervised environment and performs basic cooking and food preparation tasks utilizing knife skills, correct terminology, and a variety of cooking methods.

Prerequisite: ITA Sponsorship

COAP 3000

Professional Cook Apprentice Level 2

Students are introduced to theory and gain hands-on lab experience in the following topics: occupational skills; stocks, soups and sauces; vegatables and fruits; starches; meats; poultry; seafood; garde manger; and baked goods and desserts.

Prerequisite: Registered Cook Apprentices with the Industry Training Authority

COAP 4000

Professional Cook Apprentice Level 3

Students are introduced to theory and gain hands-on lab experience in the following topics: occupational skills; handling meat, poultry, and seafood; beef; veal; pork; lamb; poultry; seafood and freshwater fish; game; and processed meat products.

Prerequisite: Admission to Professional Cook 3

COMP 500 3 credits

Introduction to Personal Computers (1,2,3)

ABE - Advanced: This course is designed to introduce students to the personal computer environment at an advanced level. Students gain basic computing skills, including File Management, the Internet, Email, Word Processing, Spreadsheets, and slide presentation using popular word processing software. Historical and social issues arising from the use of computer technology is also covered.

Note: This course is taught by the University and Employment Preparation Department

Required Lab: COMP 0500L

Required Seminar: COMP 0500S

COMP 600 3 credits

Introduction to Programming (2,0,4)

ABE - Provincial: A programming course designed for students who are planning to take a first year course in computer programming at the college or university level, CSOM or as a prerequisite for COMP 1130. It assumes no previous experience on computers and aims to develop problem solving skills and knowledge of a computer language. Students will learn the VISUAL BASIC.NET programming language.

Prerequisite: Principles of Math 11 or MATH 0510, COMP 0500 or instructor's permission

Note: This course is taught by the University Preparation Department

Required Lab: COMP 0600L

COMP 650 3 credits

Introduction to Desktop and Web Publishing (0,5,0)

ABE V Provincial: This is a computer studies application course intended to develop problem-solving and critical thinking skills using computer application software, including Adobe Photoshop and InDesign. Students will develop Desktop Publishing, Digital Photograph manipulation and Web page creation skills.

Prerequisite: COMP 0500 (or equivalent), ENGL 0500 (or equivalent) or instructor's permission.

Note: This course is taught by the University Preparation Department

COMP 1000 3 credits

Introduction to Information Technology (3,0,1)

Students are provided an introduction to the 'computer world,' and an opportunity to enhance their proficiency in using computer resources for common daily tasks. The basic computer knowledge required to be an effective academic student as well as be competitive in the modern workplace is acquired, in addition to an understanding of the computer as a collection of resources (local and global). Students learn how to use computer resources to complete assignments and projects, whether at school or in the workplace, giving them the ability to adapt to further advances and changes in information technology.

Notes:

1. Students may not receive credit for more than one of COMP 1000, COMP 1350, COMP 1910, COMP 1700, BBUS 1370 and BBUS 2370

2. Students planning on completing a Major in Computing Science or Mathematical Sciences are NOT required to complete COMP 1000

COMP 1010 2 credits

Introduction to Computing Science (2,0,0)

This course offers a broad overview; students develop an appreciation for and an understanding of the many different aspects of the computing science discipline. Topics include information and data representation; computer hardware and architecture; algorithmic problem solving; an introduction to programming; operating systems; networks; applications; artificial intelligence and robotics; social implications; ethics; and a history of computing. The course is intended for students expecting to continue in computing science as well as for those taking it for general interest.

COMP 1020 1 credits

Introduction to Spreadsheets (0,1,0)

This course provides students with an introduction to spreadsheets using Excel. Students develop the spreadsheet skills they need for other courses, and ultimately the modern workplace.

Prerequisite: None, although experience with computer use and typing skills would be beneficial

COMP 1030 1 credits

Introduction to Databases (0,1,0)

Students are introduced to DBMS (Database Management System). The DBMS used in this course is Microsoft Access. Students enhance their ability to create, query, and maintain a database in MS Access, in addition to creating forms and reports. This course provides basic database knowledge.

COMP 1040 1 credits

Introduction to Web Animation (0,1,0)

This is an introductory animation course using Adobe Flash software. Students explore the principles of animation using Flash software, and apply these principles to create a series of animation assignments.

COMP 1050 1 credits

Computer System Maintenance (0,1,0)

Students focus on computer system maintenance, trouble shooting, and optimization. Both hardware

and software aspects of the computer as a system are covered. The course utilizes the Windows operating system; installing, uninstalling and working with applications; installing and troubleshooting devices; maintaining systems and optimizing performance.

COMP 1060 1 credits

Introduction to Desktop Publishing (0,1,0)

creditStudents are provided with a comprehensive introduction to current publishing software to create professional presentations, documents, marketing communications materials and Web pages. This course is intended for students who have little or no exposure to Microsoft Office products.

Prerequisite: None, although experience with computer use and typing skills are beneficial. Bachelor of Science students must obtain permission of the B.Sc. Advisor prior to enrolling in this course.

COMP 1070 1 credits

Introduction to Digital Media (0,1,0)

Students are introduced to digital media. The goal is to use freely available shareware to edit photo, music and video files in a series of practical assignments. Students also learn the basic vocabulary and theory behind digital forms of media.

COMP 1080 1 credits

Introduction to Web Development (0,1,0)

This course provides an introduction to web development. This course covers only client-side web development with a brief introduction to HTTP protocol and web servers.

COMP 1090 1 credits

Introduction to Linux (0,1,0)

This course provides an introduction to Linux Operating System such as Linux evolution, graphical environments, terminal interfaces and shell, the file system, file manipulation commands, data manipulation commands, editors, software tools, networking tools, and system administration tools.

COMP 1130 3 credits

Computer Programming 1 (3,1,1)

Students are introduced to the use of structured problem solving methods, algorithms, structured programming, and object-oriented programming concepts. Students use a high level programming language to learn how to design, develop, and document well-structured programs using software engineering principles. Students learn the workings of a computer as part of programming. This course is for students who plan to take further courses in Computing Science or to learn basic programming concepts.

Required Lab: COMP 1130L

Required Seminar: COMP 1130S

COMP 1140 3 credits

Visual Basic Computer Programming (3,1,1)

This course is an introduction to the use of structured problem solving methods, algorithms, structured programming, or object-oriented programming as well as event-driven programming. Students use a high-level programming language to design, develop, and document well-structured computer programs using software engineering principles. The language used in the course is Visual Basic.NET.

Prerequisite: Admission to the Computer Science Diploma program

COMP 1150 1 credits

Introduction to 3D Animation (0,1,0)

This course introduces the basic principles and concepts of 3 dimemsional animations. Students will gain experience with Alice, a fun and interactive way to design and create virtual worlds by using animated 3 dimemsional graphical images. Students will gain the knowledge of princples and techniques common to all animations and particularly how to render 3 dimensional images.

COMP 1230 3 credits

Computer Programming 2 (3,1,0)

This course is a continuation of Computer Programming 1course. Students are introduced to the foundation for further studies in computer science. Students continue to learn the disciplined approach to the design, coding, and testing of programs in the object oriented paradigm. Students learn object-oriented programming in detail, and are introduced to the data structures and algorithm analysis.

Prerequisite: C or better in COMP 1130

Note: Students may not receive credit for more than one of COMP 1230 and 2120.

Required Seminar: COMP 1230S

COMP 1240 3 credits

Visual Basic Computer Programming 2 (3,1,1)

In this continuation of COMP 1140: Visual Basic Computer Programming, students are provided a foundation for further studies in computing science, using Visual Basic.NET . The objectives of this course are to continue developing a disciplined approach to the design, coding and testing of computer programs written in Visual Basic.NET. Students examine concepts of data abstraction, encapsulation and inheritance, as well as the notion of information hiding and objects. There is an introduction to increasingly complex data structures, files and databases. Students use a report writer (Crystal Reports) and learn the management of exceptions in programs and classes. Students are also introduced to the creating of web applications using VB.NET, ADO.NET and ASP.NET, understanding XML, and creating web services.

Prerequisite: C or better in COMP 1140

Required Lab: COMP 1240L

Required Seminar: COMP 1240S

COMP 1350 3 credits

Information Systems and Computerized Information Analysis (3,1,1)

creditsThe purpose of this course is to introduce computer terminology and system development techniques as they apply to information systems within the discipline. Students learn the principles and usage of computerized systems for data gathering, analysis, and reporting. Students develop an understanding of how to design, implement, and use database systems, how to analyze data via databases and spreadsheets, and how to report results both as text and graphics. Students delve into a comprehensive case study that integrates various software environments that may be encountered in the workplace.

Note: Students may not receive credit for more than one of COMP 1000, COMP 1350, COMP 1910, COMP 1700, MIST 2610

Required Lab: COMP 1350L

Required Seminar: COMP 1350S

COMP 1380 3 credits

Discrete Structure 1 for Computing Science (3,1,0)

This course is an introduction to the basic mathematical concepts used in computing science. Topics include the binary number system; computer arithmetic; logic and truth tables; Boolean algebra; logic gates and simple computer circuits; vectors and matrices; sets; counting; probability theory and statistics (mean, variance, median, mode, and random variables).

Prerequisite: Principle of Math 12 with a C or better

Note:

1. This course is identical to MATH 1380

2. Students may not receive credit for more than one of COMP 1380 and MATH 1380

Required Seminar: COMP 1380S

COMP 1390 3 credits

Discrete Structure 2 for Computing Science (3,1,0)

This course introduces further mathematical concepts used in Computing Science. Topics include relations; functions; graph theory; trees; languages; grammars; finite state machines; an introduction to proofs and mathematical induction; and algorithm analysis.

Prerequisite: C or better in COMP 1380 or MATH 1380; or MATH 1070, or instructor's written consent.

Note: A programming background is recommended

Required Seminar: COMP 1390S

COMP 1520 3 credits

Principle of Software Development (3,0,2)

This course offers a practical introduction to problem-solving on a computer, and emphasizes a structured approach to the design of algorithms and proper programming style. Students use a high-level programming language to learn how to design, develop, and document well-structured programs in order to solve problems from the field of Engineering. In addition, students are introduced to data analysis using MATLAB.

Prerequisite: Acceptance into the Engineering program at TRU, or completion of Computer Science 12, or completion of COMP 0600, or grade of 'B' or better in Principles of Math 12

Note: Students may obtain credit for only one of COMP 1130 and COMP 1520

Required Lab: COMP 1520L

COMP 1570 3 credits

Data Processing Tools and Techniques 1 (3,1,0)

This course serves as an introduction to the tools and techniques commonly used for the processing and presentation of data. Throughout the course, students work on data processing problems typical of a business setting, including record keeping applications, data capture and validation, and report creation procedures.

Students can expect to do a substantial amount of work in this course using spreadsheets (Microsoft

Excel), desktop databases (Microsoft Access), and basic Web pages (HTML).

Prerequisite: Admission to the Computer Science Diploma program

Required Seminar: COMP 1570S

COMP 1670 3 credits

Data Processing Tools and Techniques 2 (3,1,0)

The primary themes in this course build on those from COMP 1570: Data Processing Tools and Techniques 1, namely processing and presentation of data in a business context. Topics include advanced features of desktop databases; the use of reporting packages; editors and file handling utilities; and commercial application packages. Students also discuss software quality, documentation, and testing methodology.

Prerequisite: C or better in COMP 1570

Required Seminar: COMP 1670S

COMP 1700 3 credits

Introduction to Computing (3,0,1)

This course, intended for non-science students and non-mathematics students, is designed to offer a general introduction to the world of computers including terminology, history, uses, impact on society, and programming. Students experience and focus on operating and using a microcomputer in addition to common microcomputer software, such as Windows, word processing, spread sheets, presentation packages and graphics. The Internet as a research tool and programming is also introduced.

Notes:

1. COMP 1700 is not recommended for students in the BBA program. These students should register in MIST 2610

2. Students may not receive credit for more than one of COMP 1000, COMP 1350, COMP 1910, COMP 1700, BBUS 1370 and BBUS 2370

3. This course is not currently offered. Interested students should enroll in COMP 1000

Required Lab: COMP 1700L

COMP 1810 3 credits

Game Design and Development 1 (3,1,0)

Building a high quality game is a complex and challenging process. A key element to its success is the design. The fundamentals of game design and development are discussed, in addition to different elements of game design, such as game concepts, character development, storytelling and narrative, core mechanics, and creating the User Interface. Students build and develop computer games.

Required Seminar: COMP 1810S

COMP 1910 3 credits

Introduction to Computers and Business Information Systems (1,1,2)

Students explore computing in the business environment. Emphasis is placed on computer applications in business including Windows, word processing, spreadsheets, presentation packages and the Internet. Topics relating to computer needs for business are also discussed.

Prerequisite: Admission to the Marketing/Management, Horticulture Business Diploma or Tourism programs

Note: Students may not receive credit for more than one of COMP 1000, COMP 1350, COMP 1910, COMP 1700, BBUS 1370 and BBUS 2370

Required Lab: COMP 1910L

Required Seminar: COMP 1910S

COMP 1980 3 credits

Foundations of Computing Science (3,2,0)

This course provides breadth in the area of Computing Science for Computing Science Majors. Topics include hardware and software design, including logic design; basic computer organization and system software; programming paradigms; external storage, sequential file processing and elementary relational databases; networks and electronic information services; artificial intelligence; and ethical and societal considerations.

Prerequisite: C or better in COMP 1130

Corequisite: COMP 1230

Required Seminar: COMP 1980S

COMP 2120 3 credits

Computer Programming Java (3,1,0)

Students are introduced to programming and program design using the Java programming language. This is a programming course, and as such, the requirements placed on students are beyond simply using the computer as a tool. Students must employ problem-solving skills to evaluate and solve word problems, and create Java programs using the basic language constructs to implement the solutions. This course is designed for students who have had exposure to university-level programming, and previous experience in programming languages other than JAVA.

Prerequisite: A 3-credit course in a programming language other than JAVA

Required Seminar: COMP 2120S

COMP 2130 3 credits

Introduction to Computer Systems (3,1,0)

Students learn the basic concepts of computer systems. Students are introduced to the concepts of computer architecture, the 'C' and assembly programming languages as well as the use of Linux operating system. Students learn about memory organization, data representation, and addressing. Students are introduced to the concepts of machine language, memory, caches, virtual memory, linkage and assembler construction as well as exceptions and processes.

Prerequisite: C or better in COMP 1230 or COMP 2120

Required Seminar: COMP 2130S

COMP 2160 3 credits

Mobile Application Development 1 (3,1,0)(L)

Students learn how to develop applications for mobile devices, including smartphones and tablets. Students are introduced to the survey of current mobile platforms, mobile application development environments, mobile device input methods, as well as developing applications for two popular mobile platforms. Students design and build a variety of Apps throughout the course to reinforce learning and to develop real competency.

Prerequisite: C or better in COMP 1230

Required Seminar: COMP 2160S

COMP 2210 3 credits

Programming Methods (3,1,0)

Students are introduced to the programming environments of visual and scripting language along with tools and techniques of software development process. Students learn a combination of visual programing using C# and scripting language using Python in this course. Students learn the techniques of event driven visual application development, database and web connectivity, scripts, functions, strings, tuples and text file handling.

Prerequisite: C or better in COMP 1230

Required Seminar: COMP 2210S

COMP 2230 3 credits

Data Structure, Algorithm Analysis, and Program Design (3,1,0)

Students are introduced to the basic methods of representing data in Computing Science. Students review, implement and analyze several fundamental data structures including lists, stacks, queues, and graphs. Students learn the implementation of algorithms using these data structures and the efficiency and cost tradeoffs of each of them.

Prerequisite: C or better in COMP 1390 or MATH 1700, and COMP 1230 or COMP 2120 or COMP 1240

Required Seminar: COMP 2230S

COMP 2520 3 credits

Programming in C++ (3,0,1)

This course is a programming course in Visual C++. Students are introduced to C++ using Microsoft Visual Studio, including the basics of the language, and the concepts and syntax of object-oriented programming with C++. The course examines the building of classes, provides an introduction to data structures, sorting and searching, and explores advanced features of classes.

Prerequisite: C or better in COMP 1140

Required Lab: COMP 2520L

COMP 2530 3 credits

Small Computer Systems: Organization and Architecture (3,1,0)(L)

This course presents the organization and architecture of modern, small computer systems. A discussion of representation and manipulation of information inside computers is followed by logic design basics, computer organization, and an introduction to computer architecture. Students are then introduced to the principles of operating systems, including the management of computer system resources, and provided an overview of current popular small systems operating systems. Topics are complemented by a seminar type workshop to give students hands-on experience with maintenance, configuration troubleshooting, upgrading, optimization, and usage of small computer systems.

Prerequisite: Successful admission into 1st year Computing Science Diploma

Required Seminar: COMP 2530S

COMP 2540 3 credits

Information Resource Management and Issues (3,1,0)

Information Systems (IS) are an important service to organizations and the management of information systems is important to understand, both for the employee in the organization and for individuals

interested in becoming IS managers. This course explores IS management and how it must effectively address the needs and imperatives of organizations, technologies and society. The computer profession has emerged as an essential player in organizations as they vie for improved competitive positions by making strategic use of computer technology. Case studies and guest lecturers (where possible) are used to provide an IS overview, and examine the duties and organization of IS departments (including control of resources, staffing, security and disaster plans); the organization of IS to support end-user computing; and the quality of life, work, professionalism and ethics for IS professionals.

Prerequisite: Successful completion of 1st year of Computing Science Diploma

Required Seminar: COMP 2540S

COMP 2560 3 credits

Database Processing (3,0,1)

Students review the major components of the database environment and the evolution of database technologies. Database design techniques are then introduced using both the Entity Relationship model and an object-oriented approach. As students design and implement a case study project, they learn the relational database model and data normalization. Structured Query Language (SQL) is discussed in depth, including Data Definition Language (DDL), Data Manipulation Language (DML), Data Control Language, and data integrity checking. Client and Server architecture is also discussed.

Prerequisite: C or better in COMP 1230

Required Lab: COMP 2560L

COMP 2570 3 credits

Systems Analysis and Design 1 (3,1,0)

Students are introduced to systems analysis and design. Topics in analysis include project initiation, preliminary investigation, definition of project scope, cost/benefit analysis, interviewing techniques, presentation techniques, detailed systems investigation, and analysis. Topics in design include object-oriented design, input, output, files, systems processing and systems controls. This course may use CASE tools in the lab component.

Prerequisite: Completion of 1st year Computing Science Diploma

Required Seminar: COMP 2570S

COMP 2590 4 credits

Program Design and Data Structure for Engineers (4,3,0)

Students examine the two main aspects of computer software (data structures and algorithms), and developing medium-sized programs (as opposed to suites of programs). The object-oriented programming paradigm is utilized. Students acquire knowledge of the basic data structures and algorithms commonly used in Computing Science; an understanding of the techniques appropriate for developing middle-sized computer programming projects; the skills appropriate for small, team programming projects; and practical programming skills in an object-oriented and procedural language, such as Java or C++.

Prerequisite: Admission to the Electrical-Computer Engineering Year 2 program, or permission of the Engineering Transfer program coordinator. COMP 1520 or COMP 1130.

Required Seminar: COMP 2590S

COMP 2620 3 credits

E-Commerce Systems Development (3,1,0)

This course introduces students to the design, implementation, and operation of Electronic Commerce systems. Emphasis is placed on the technology involved in creating Web databases, data marts, data mining systems, and interactive data warehousing. Students also discuss financial issues (electronic payments system, customs, and taxation), privacy, security, and legal issues. Students are required to prepare a team project of a working E-Commerce system using a variety of current tools. Upon completion, students have a strong understanding of the basic building blocks (concepts and technology) and their interrelations in the E-Commerce system, and are capable of developing a small size E-Commerce transaction processing system using current tools.

Prerequisite: C or better in COMP 2560 and COMP 2680

Required Seminar: COMP 2620S

COMP 2630 3 credits

Small Computer Systems: Communication and Networks (3,1,0)(L)

Current advances in computer technology are bringing a new dimension to small computer systems networking. The networking of fast, reliable, and inexpensive small computer systems is revolutionizing the organization of companies, downsizing applications, and is a major new area of employment. The course introduces the fundamentals of data communication and computer networks. A discussion of information transfer and data communication is followed by an overview of computer networks. Students focus on Local Area Networks (LAN), including their design, organization, installation, maintenance, and administration, as well as issues of data security, data backups and recovery. LAN access to Wide and Global computer networks is explored. Student learning is supported by a series of hands-on practical workshops and seminars on the design, installation, and administration of a typical LAN system.

Prerequisite: C or better in COMP 1570

Required Seminar: COMP 2630S

COMP 2640 3 credits

Languages - Advanced Programming (3,1,0)

Students examine advanced programming techniques using object-oriented methodology for enterprise design and implementation. The following topics are developed: (1) Use of Component Object Model for system development; (2) Design and implementation of a run time libraries for modern window applications including classes and ActiveX components, including ActiveX DLL's, ActiveX EXE's, and ActiveX Controls; and (3) client server techniques used for distributed systems and for use over the Internet. Visual Basic is the programming vehicle used in this course.

Prerequisite: C or better in COMP 1240, COMP 1670, COMP 2520 and COMP 2560

Required Seminar: COMP 2640S

COMP 2660 3 credits

Advanced Object Oriented Programming (3,1,0)

This is an advanced computer programming course with an emphasis on object-oriented concepts (such as inheritance, encapsulation, abstraction, and polymorphism) and design modeling using the Unified Modeling Language (UML). Topics include multi-threading, network sockets, and Graphical User Interface (GUI) programming techniques. Students use Managed Visual C++.NET and Java for programming.

Prerequisite: Completion of 3rd semester of Computer Science Diploma and C or better in COMP 2520

Required Seminar: COMP 2660S

COMP 2670 3 credits

Systems Analysis and Design 2 (3,1,0)

Continuing from COMP 2570: Systems Analysis and Design 1, students carry out a detailed analysis of an existing business system, and design an improved system under guidance of the system management. Topics include the design of systems controls, project management, scheduling and control, systems implementation, and evaluation. This is a major hands-on training course. For non-co-op students, this course may only be taken in the graduation semester.

Prerequisite: Completion of 3rd semester of Computer Science Diploma and C or better in COMP 2520

Required Seminar: COMP 2670S

COMP 2680 3 credits

Web Site Design and Development (3,1,0)

Students are introduced to the overview of website development. Students learn major aspects of Web site design and development, including basic Hyper Text Markup Language (HTML), Extensible Hypertext Markup Language (XHTML), Dynamic Hypertext Markup Language (DHTML), Hypertext Transfer Protocol (HTTP), Java Script programming, and Cascading Style Sheets (CSS). Students explore prevailing tools and standards - including the Internet, World Wide Web, client-server, Hypertext Markup Language 5 (HTML5), Cascading Style Sheets 3 (CSS3), multimedia, database - and are introduced how they function together in today's web environment.

Prerequisite: C or better in COMP 1130

Required Seminar: COMP 2680S

COMP 2730 3 credits

Introduction to Computer Security (3,1,0)

This is an introductory course on computer and information system security. Students discuss key security requirements such as Confidentiality, Integrity, and Availability (CIA), and the mechanisms used to ensure them, such as Authentication, Access Control, and Auditing (triple-A). The course lays the foundation for further study, and for students seeking industry certifications, such as CompTIA Security+ or CISSP.

Prerequisite: C or better in COMP 2630

Required Seminar: COMP 2730S

COMP 2810 3 credits

Game Design and Development 2 (3,1,0)

Building a high-quality game is a complex and challenging process; a key element to its success relies on the game interface design. Students build on the fundamentals of game design learned in COMP 1810: Game Design and Development 1. Different genres of game are considered, such as action games, strategy games, role-playing games, sports games, simulation or serious games, adventure games, artificial life and puzzle games, and online gaming. Students learn to effectively design game Interfaces that enable players to participate in unique and engaging experiences.

Prerequisite: C or better in COMP 1810

Required Seminar: COMP 2810S

COMP 2910 3 credits

Computer Applications in Business (2,1,0)

This is a business software applications course for students in tourism programs. Building upon computer skills acquired in COMP 1910: Introduction to Computers and Business Information Systems, students in this course complete business-related software projects. The emphasis of the course is on computer applications in the tourism industry. In addition, a common thread throughout the course is the application and integration of communications technologies with business software. Students make extensive use of the World-Wide-Web and internet-based applications.

Prerequisite: C or better in ACCT 1000 and COMP 1910

Note: Students entering the Bachelor of Computing Science program must see the program coordinator before registering for BCS courses

Required Seminar: COMP 2910S

COMP 2920 3 credits

Software Architecture and Design (3,1,0)

Students learn how to establish, define and manage the requirements for a software system. Students gain knowledge of fundamental concepts and methods of software design. Students learn how to use design notations of unified modeling language to develop design of a software product. Students are introduced to the design guidelines, quality, and evaluation criteria of software architecture. Students study how to design, generate, and modify software patterns and their use in software development.

Prerequisite: COMP 1230 (minimum grade of C)

Required Seminar: COMP 2920S

COMP 3050 3 credits

Algorithm Design and Analysis (3,1,0)

Students begin by defining what an algorithm is, discuss what it means to do algorithm analysis, and analyze why it is important in Computing Science. Topics include tools and methods for algorithm analysis and design; mathematical notations; choice of data structure; and space and time efficiency; Computational complexity and additional advanced algorithms are examined.

Prerequisite: C or better in COMP 2230

Note: Students taking the Computing Science major, or the Mathematical Sciences major, in the Bachelor of Science program must see the B.Sc. advisor before registering in 3rd or 4th year courses.

Required Seminar: COMP 3050S

COMP 3110 3 credits

Models of Computation (3,1,0)

Computer Science is the study of computers and programs, and the collections of instructions that direct the activity of computers. Computers are made of simple elements but they often perform complex tasks. The great disparity between the simplicity of computers and the complexity of computational tasks offers intellectual challenges. Theoretical computer science develops methods and models of analysis to meet those challenges. This course provides an introduction to general computational models (logic circuits, upper bound on the size and depth of the circuits for important problems); automata (finite-state, random-access, and Turing machines); formal languages; and computational complexity (time- and space-bounded complexity classes, and space-time tradeoffs).

Prerequisite: C or better in COMP 2130 and COMP 2230

Required Seminar: COMP 3110S

COMP 3120 3 credits

Programming Languages (3,1,0)

This course is a comparative study of programming languages including their syntax, semantics and run-time behavior. Students discuss data abstraction, programming paradigms (functional, object-oriented, procedural, and relational) and their appropriate applications. Interpretation versus compilation as well as concurrent computations are discussed.

Prerequisite: C or better in COMP 2230

Required Seminar: COMP 3120S

COMP 3130 3 credits

Formal Languages, Automata and Computability (3,1,0)

Students discuss formal grammars, normal forms, the relationship between grammars and automata, regular expressions, finite state machines, pushdown automata, and Turing machine computability. Additional topics include the Halting Problem; an introduction to recursive function theory; application to programming languages; and editors and command languages (operating systems).

Prerequisite: C or better in COMP 2130 and COMP 2230

Required Seminar: COMP 3130S

COMP 3140 3 credits

Object Oriented Design and Programming (3,1,0)

Students are introduced to object-oriented design and programming. Topics include object-oriented concepts, object-oriented programming, development of console-based applications in C++, Visual C++, Visual Basic .Net, and an introduction to Microsoft Foundation Classes (MFC) and inter-object communication. Students design and develop systems using object-oriented design and programming methodologies in console and Windows-based applications.

Prerequisite: C or better in COMP 1230

Corequisite: COMP 2230

Required Seminar: COMP 3140S

COMP 3150 3 credits

Java Programming (3,1,0)

The Java programming language is a modern object-oriented language designed with two very important features: (1) platform independence, which allows the program to be executed on different machines and under the control of different operating systems; and (2) direct support for HTML (and similar) documents. These two features made Java a language of choice for internet-based applications. This course consists of an overview of the Java environment, syntax, and libraries; object-oriented program design in java; program design in Java for the internet (applets, servlets); and multiprogramming in Java (multithreading).

Prerequisite: C or better in COMP 2230

Required Seminar: COMP 3150S

COMP 3160 3 credits

Mobile Application Development 2 (3,1,0)(L)

Students are introduced to advanced mobile application development. Topics include databases, GPS and other sensors, maps, 2D graphics, 3D graphics, sound, music and other media, game development, and network communication.

Prerequisite: C or better in COMP 2160

Required Seminar: COMP 3160S

COMP 3260 3 credits

Computer Network Security (3,1,0)

Students explore how information is exchanged on the Internet and the security issues that arise due to information exchange between different technologies. Students learn concepts of authentication, authorization, access control in computer networks. Students gain knowledge about Use of cryptography for data and network security. Students are introduced to the topics such as firewalls, public key infrastructure, security standards and protocols, virtual private networks, and wireless network security. Students also explore privacy, legal issues and ethics in context of network security.

Prerequisite: C or better in COMP 3270

Required Seminar: COMP 3260S

COMP 3270 3 credits

Computer Networks (3,1,0)

Students learn about computer network design principles and concepts, network architecture, Open Systems Interconnection (OSI) model, error detection and recovery, local area networks, bridges, routers and gateways, network naming and addressing, routing protocols, inter-networking, wireless networks, and Internet Protocol v6 network addressing. Students first gain knowledge about basic local area networks, and then learn about the wireless Local Area Networks, techniques to extend Local Area Networks, inter-networking and emerging network technologies.

Prerequisite: C or better in COMP 2230

Required Seminar: COMP 3270S

COMP 3320 3 credits

Computational Methodology (3,1,0)

This course offers selected topics in numerical computations with an emphasis on computer arithmetic, analysis of roundoff errors, propagation of errors, and environmental paremeters. Students explore computational metholology as applied to solving problems in Numerical Linear Algebra (Direct and Iterative Methods), non-linear equations and non-linear systems of systems of equations. Students are also introduced to the use of numerical software libraries and the design of numerical software packages.

Prerequisite: C or better in COMP 2230

Required Seminar: COMP 3320S

COMP 3410 3 credits

Operating Systems (3,1,0)

The purpose of this course is to provide students basic knowledge of operating systems, difference between the kernel and user modes, concepts of application program interfaces, methods and implementations of interrupts.

Students are introduced to the schedulers, policies, processes, threads, memory management, virtual memory, protection, access control, and authentication. Students learn system calls in different popular operating systems used in the industry.

Prerequisite: C or better in COMP 2130 and COMP 2230

Required Seminar: COMP 3410S

COMP 3450 3 credits

Human-Computer Interaction Design (3,1,0)

Students are introduced to the concepts and practices of interaction design from a human-computer perspective. Students learn both theoretical and practical concepts of human-computer interaction and study how to develop user interfaces using a user-centered approach. Students learn both the general principles and specific techniques of interaction design and user experience design for various applications (mobile, web, and desktop). Students produce user interfaces through assignments following the guidelines discussed during the lectures. Students evaluate their user interfaces using various evaluation methods.

Prerequisite: C or better in COMP 2680 and MATH 1650

Required Seminar: COMP 3450S

COMP 3510 3 credits

System Implementation and Development Tools (3,1,0)

This course offers tools and techniques to promote programming productivity and software quality. Topics include specifications; code review and inspection techniques; testing and debugging methods and tools; reusable software components and templates; file system navigation; scripting languages; software configuration management; software tools; environments; and instrumenting and profiling.

Prerequisite: C or better in COMP 2230

Required Seminar: COMP 3510S

COMP 3520 3 credits

Software Engineering (3,1,0)

Students are introduced to the different software process models and management of modular inter-communication, software engineering tools, software testing and project management including resource estimation, team organization and review. Students learn software engineering techniques for dependable and secure systems, reliability engineering, software evolution, software maintenance, quality management, configuration management, reuse and ethical issues in software engineering.

Prerequisite: C or better in COMP 2920

Required Seminar: COMP 3520S

COMP 3540 3 credits

Advanced Web Design and Programming (3,1,0)

Students review client-side web technologies used for static webpages and interactive web applications on clients. Students examine advanced topics in Hyper Text Markup Language, Cascade Style Sheet and JavaScript for interactive web applications that use rich user interfaces. Students then continue with server-side web technologies for dynamic web applications, such as server-side scripting programming, database access for three-tier data-driven applications, and asynchronous communication between client and server for fast partial update of client windows.

Prerequisite: C or better in COMP 2680 and COMP 2230

Required Seminar: COMP 3540S

COMP 3610 3 credits

Database Systems (3,1,0)

Students are introduced to the database concepts. Students review the underlying data structures that make up databases. Students learn database design techniques using both the Entity Relationship model as well as an object oriented approach to designing database systems. Students study the relational database model and data normalization as they design and implement a case study project. Students also learn data description language, data manipulation language (updates, queries, reports), and data integrity. Students complete a case study work using a relevant and current relational database management system, database management system, software product.

Corequisite: COMP 2230

Required Seminar: COMP 3610S

COMP 3710 3 credits

Applied Artificial Intelligence (3,1,0)

Students investigate non-deterministic computer algorithms that are used in wide application areas but cannot be written in pseudo programming languages. Non-deterministic algorithms have been known as topics of machine learning or artificial intelligence. Students are introduced to the use of classical artificial intelligence techniques and soft computing techniques. Classical artificial intelligence techniques include knowledge representation, heuristic algorithms, rule based systems, and probabilistic reasoning. Soft computing techniques include fuzzy systems, neural networks, and genetic algorithms.

Prerequisite: C or better in COMP 2230 and MATH 1650

Required Seminar: COMP 3710S

COMP 3820 3 credits

Computer Graphics and Visualization (3,1,0)

Students are introduced to computer graphics and visualization. The course covers basic principles and techniques that are used for graphics applications through simple examples. Students are exposed to current graphics and Application Programming Interfaces (API) for desktop computers and mobile devices, and learn the development of graphics applications (interactive games, visualizations, simulations) through assignments and a project.

Prerequisite: C or better in COMP 2230

Required Seminar: COMP 3820S

COMP 4110 3 credits

Language Processors (3,1,0)

This compiler design course includes topics such as translators; compilers; assemblers and interpreters; compiler organization; compiler writing tools; use of regular expression; finite automata and context-free grammars; scanning and parsing; run- time organization; semantic analysis; and storage allocation and code generation.

Prerequisite: C or better in COMP 3050

Required Seminar: COMP 4110S

COMP 4120 3 credits

Distributed Systems (3,1,0)

Students examine the evolution of technology and the concepts underlying distributed computing systems. Topics include the fundamentals and principles of distributed computing; language constructs for distributed programming; formal specification of distributed systems; distributed algorithms; elements of distributed operating systems; and elements of fault-tolerant distributed architectures.

Prerequisite: C or better in COMP 3270, COMP 3410, COMP 3610

Required Seminar: COMP 4120S

COMP 4230 3 credits

Advanced Computer Networks (3,1,0)

This course is designed as a follow-up course on computer networks. The application of networking concepts taught in computer networks, as well as additional topics in advanced Computer Networks are emphasized.

Prerequisite: C or better in COMP 3270, COMP 3610

Required Seminar: COMP 4230S

COMP 4240 3 credits

Internet/Intranet (3,1,0)

Students are presented with the most practical internet and intranet technologies and techniques. Topics include internet protocols, addressing and architecture, intranet and extranets design, installation, and management, and all aspects of internet/intranet security and user/data authentication.

Prerequisite: C or better in COMP 3540, COMP 4240

Required Seminar: COMP 4240S

COMP 4250 3 credits

Computer Network Administration (3,1,0)(L)

This course emphasizes the implementation and the administration of network and network servers, and network security. Topics include administration of internet working and server software on network servers; network traffic surveillance; network security problems, firewall, intrusion detection and defense; and the implementation of a practical LAN.

Prerequisite: C or better in COMP 3270, COMP 3410

Required Seminar: COMP 4250S

COMP 4260 3 credits

Mobile Computing (3,1,0)

Students focus on the basic knowledge of mobile applications, and progress to the mobile application service platform and the development of mobile applications, using Mobile Java Technology. Topics include wireless Internet service, Wireless Markup Language and Wireless Application Protocol, Connected Limited Device Configuration, and Mobile Device Information Profile.

Prerequisite: C or better in COMP 3260 or COMP 3270

Required Seminar: COMP 4260S

COMP 4320 3 credits

Advanced Computational Methodology (3,1,0)

Students focus on selected advanced topics in numerical computations with an emphasis on the analysis of errors. The study of computational methodology as applied to solving problems in

interpolation and approximation includes splines and least spares data fitting; numerical differentiation and integration; numerical initial value ordinary differential equations; and partial differential equations. Students design a numerical software package.

Prerequisite: C or better in COMP 3320

Required Seminar: COMP 4320S

COMP 4340 3 credits

Modelling and Simulation (3,1,0)

Students examine numerous concepts related to modelling and simulation, including numeric models of dynamic systems with an emphasis on discrete stochastic systems; state descriptions of models, common model components and entities; simulation using algebraic languages; methodology of simulation (data collection, model design, analysis of output, optimization, and validation); elements of queuing theory and its relationship to simulation; and the application of models of computer systems. Students also discuss common simulation languages, such as Simula, GPSS, Simscript, GASP, and Dynamo.

Prerequisite: C or better in COMP 3050

Required Seminar: COMP 4340S

COMP 4480 3 credits

Directed Studies in Computing Science

Students undertake an investigation on a specific topic as agreed upon by the student and the faculty member.

Prerequisite: Admission to the Computing Science Major, or to the Bachelor of Computing Science with a GPA equal to or more than 3.0. Permission of the faculty member (supervisor) is required, and, if the course is co-supervised, an acceptance of the topic by a co-supervisor with the appropriate expertise. The co-supervisor may be either from the campus or off campus. Registration in this course requires the approval of the Department of Computing Science.

COMP 4510 3 credits

Systems Software Design (3,1,0)

Students focus on systems software components and their functions; operating software, translators, linkers, loaders, and cross assemblers; utility software; the relationship of operating software to hardware; developing system software components; single user, multiprogramming and distributed systems (LANs) operating software; and terminate and stay resident programs.

Prerequisite: C or better in COMP 3520

Required Seminar: COMP 4510S

COMP 4530 3 credits

Advanced Software Engineering (3,1,0)

This course builds on the material students learned in COMP 3520: Software Engineering. Students examine the management perspective of software development, such as project management, planning, quality and configuration management. Advanced topics are also explored, such as dependability and security engineering, service-oriented architecture, aspect- oriented software engineering and embedded system development.

Prerequisite: C or better in COMP 3520

Required Seminar: COMP 4530S

COMP 4540 3 credits

Advanced Web Design and Programming (3,1,0)

This course is a continuation of COMP 3540 (Web Site Design and Programming) and will discuss advanced web design concepts, technologies and techniques. It will cover server side programming aspects including advanced CGI techniques, ASP (Active Server Pages) and JSP (Java Server Pages), XML and the document model.

Prerequisite: COMP 3540, COMP 3610

Required Seminar: COMP 4540S

COMP 4610 3 credits

Advanced Database Systems (3,1,0)

This course continues with database concepts introduced in COMP 3610: Database Systems. Students begin with a review of database design and implementation principles, and progress to discussions about the relational database model, designing for optimization, and normal forms. Topics include domain/ key normal form; relational database strategies for Database Manipulation Languages (DMLs); database administration and multi-user database issues (control, security, optimization and related); and distributed database systems with an emphasis on Client/Server, data warehousing, object-oriented database systems, and web-based database issues.

Prerequisite: C or better in COMP 3610

Required Seminar: COMP 4610S

COMP 4620 3 credits

Web-based Information Systems (3,1,0)

This course provides students with the concepts and technologies involved in the design, implementation, and operation of web-based information systems. Students use a variety of web development tools and programming/scripting languages. Emphasis is placed on the technologies for rich web application, including the aspect of web programming paradigm; the information exchange between client and server; the model-view-controller architecture; web application frameworks; content management systems; web services; web data mining; and security issues.

Prerequisite: C or better in COMP 3540 and COMP 3610

Required Seminar: COMP 4620S

COMP 4630 3 credits

Distributed Databases and Distributed Data on the World Wide Web (3,1,0)

This course offers instruction in three major types of distributed architecture: client/server paradigm (2-tier, 3-tier, N-tier), distributed database environments (homogenous and heterogeneous), and data-centered co-operative systems. Topics include distributed system design; database transactions; query optimization; data replication; partitioning; and models for metadata. Students are required to work on small projects using a variety of current DBMS software and tools, such as MS SQL Server 7.0, Oracle 8, MS Access 2000, XML, MSXML, ODBC, OLE-DB, ASP, and VBScript on Web server.

Prerequisite: C or better in COMP 3540 and COMP 3610

Required Seminar: COMP 4630S

COMP 4740 3 credits

Expert Systems (3,1,0)

Students are introduced to artificial intelligence theory and practice underlying expert systems. Topics include knowledge bases; inference engines; knowledge representation formalisms; knowledge acquisition; search and reasoning techniques; and other practical issues in the development of expert systems. For logic-based approaches, students explore rule-based systems, semantic networks, frames, and mixed representation formalisms. For uncertainty management, certainty factors, Bayesian network, D-S belief functions, and fuzzy logic are discussed.

Prerequisite: C or better in COMP 3710

Required Seminar: COMP 4740S

COMP 4750 3 credits

Natural Computing (3,1,0)

Natural Computing is about methods of computation that are inspired by nature including the ways in which humans compute. Characteristic for man-designed computing inspired by nature is the metaphorical use of concepts, principles and mechanisms underlying natural systems. This type of computing includes evolutionary algorithms, neural networks, fuzzy logic, swarm intelligence, molecular computing and quantum computing. Students discuss the problem of intelligent systems design using neural computing/soft-computing/computational intelligence (NC/SC/CI) techniques in an integrated manner, and are presented with theory and applications, including industrial applications. Traditional artificial intelligence (AI) techniques are mainly based on mathematical techniques of symbolic logic. These are referred to as 'crisp' techniques by the soft computing community. NC/SC/CI seeks inspiration from the world of biology, and is being used to create numerous real-world intelligent systems with the aid of NC/SC/CI tools.

Prerequisite: C or better in COMP 3050

Required Seminar: COMP 4750S

COMP 4830 3 credits

Multimedia (3,1,0)

Students are introduced to the concepts, theories, and practices involved in the development of multimedia applications. The course covers fundamental concepts and theories of different digital media, the principles of good design, and the most recent technologies for the development of multimedia applications. Students explore practical knowledge and techniques of multimedia programming by completing course assignments and a project related to web-based and mobile applications. Students enrolled in this course are expected to increase their proficiency in the development of multimedia applications using these contemporary technologies.

Prerequisite: C or better in COMP 2230

Required Seminar: COMP 4830S

COMP 4910 3 credits

Computing Science Project (0,1,0)

Students in this "capstone" project course must complete a practical design and implementation of a supervised project in an area of specialisation in Computing Science. Students will develop a `live' project either working with an external client or a research project with an individual faculty supervisor.

Prerequisite: C or better in COMP 3520 and 4th year standing

COMP 4930 3 credits

Professional and Ethical Issues in Computing Science (3,0,0)

Students examine current computer issues and selected topics from these, including the impact of computer technology on society; historical perspectives; social and economic consequences of large-scale information processing systems and automatic control; legal and ethical problems in computer applications; intellectual property. Additional topics include the computer and the individual; machine versus human capabilities; facts and fancy; problematic interface between man and machine; privacy and security; the need for standards and the implications of non-standardization; and ethics.

Prerequisite: 3rd year standing

COMP 4960 6 credits

Honours Thesis in Computing Science

Each student in this course is required to conduct, under the supervision of a member of the Department of Computing Science, an individual investigation into a Computing Science topic or problem at the advanced undergraduate level, the results of which are to be typed and submitted as an Honors Thesis. The thesis is defended at a public lecture before an examining committee.

Prerequisite: Admission into the Computing Science Honors program as part of a Bachelor of Science degree and identification of a supervisor

COMP 4980 3 credits

*****Current Topics in Computer Science (3,1,0)**

Students are introduced to selected current topics in computing science at the advanced undergraduate level. Due to the rapidly changing nature of computing science, the course content varies from year to year.

Prerequisite: Admission to the 4th year of the Bachelor of Computing Science degree program, or 4th year standing in the Computing Science Major program

Required Seminar: COMP 4980S

CONS 1000

Construction Craft Worker Apprenticeship Level 1 (120 hours)

This course is intended for BC ITA sponsored apprenticeship level 1 students and covers how to install utility piping, place concrete, construct roads, perform selective demolition, and perform underground work. Apprentices will also learn to: assist skilled tradespersons such as Carpenters, Bricklayers and Cement Finishers in construction activities; help Heavy Equipment Operators secure special attachments to equipment; guide operators in moving equipment and perform laboring activities at construction sites.

Prerequisite: BC ITA sponsorship required. Recommended - Grade 10 or equivalent including English 10 and Mathematics 10.

CONS 2000

Construction Craft Worker Apprenticeship Level 2 (120 hours)

This course is intended for BC ITA sponsored apprenticeship level 2 students and covers how to install utility piping, place concrete, construct roads, perform selective demolition, and perform underground work. Apprentices will also learn to assist skilled tradespersons such as Carpenters, Bricklayers and Cement Finishers in construction activities, help Heavy Equipment Operators secure special attachments to equipment, guide operators in moving equipment and perform laboring activities at construction sites.

Prerequisite: BC ITA sponsorship required. Recommended - Grade 10 or equivalent including English 10 and Mathematics 10.

CONV 1000 1 credits

Events and Conventions Practicum 1 (1,0,0)

This course requires the student to practice skills and theory acquired during the first year of their studies in the Sports Event Management Diploma. Students will be required to spend one hour per week in a classroom setting where instruction will include such topics as interviewing skills, resume writing and job search. As well, students will be exposed to trends and opportunities in the field of sports even management. At the conclusion of the academic year, students will be required to complete 160 hours of fieldwork. Although no numeric grade is given for this course, the students must successfully complete this course before certification is given by UCC.

Prerequisite: The successful completion of all courses in the first year of the Events and Convention Management Diploma program with a minimum of a C in any course.

CONV 1010 3 credits

Introduction to Tourism (40 hours)

The course is designed to provide an introduction to the tourism industry. Consideration is given to the concepts and vocabulary common throughout the eight tourism sectors. A critical examination of the competition for resources with other industries in British Columbia will be examined.

Prerequisite: No prerequisite, admission requirements to home institution.

CONV 1020 3 credits

Introduction to Special Event Management (40 hours)

This course provides insight into how communities (local, regional and national) and the cultures within these communities can be attracted to and successfully included in special events. Consideration is give to cross-cultural issues and the challenges of creating an authentic experience while respecting the local environment and the traditions of the people who live in the location a special event is hosted. Some approaches and techniques for incorporating the traditions of communities and cultures into special events will be demonstrated.

Prerequisite: No prerequisite, admission requirements to home institution

CONV 1030 3 credits

Celebrating Community and Culture (40 hours)

This course provides insight into how communities (local, regional and national) and the cultures within these communities can be attracted to and successfully included in special events. Consideration is given to cross-cultural issues and the challenges of creating an authentic experience while respecting the local environment and the traditions of the people who live in the location a special event is hosted. Some approaches and techniques for incorporating the traditions of communities and cultures into special events will be demonstrated.

Prerequisite: No prerequisite, admission requirements to home institution

CONV 1040 3 credits

Event Volunteer Management (40 hours)

The course is designed to introduce the student to the concepts and theories for the successful management of event volunteers. Current trends and their impacts on volunteer organizations will be examined. The student will participate in volunteering for a special event.

Prerequisite: No prerequisite, admission requirements to home institution

CONV 1050 3 credits

Legal Liability and Risk Management (40 hours)

The goal of CONV 1050 is to provide an introduction to event management law and risk management. This course has been designed to provide a broad perspective about the legal and risk management issues involved in planning and hosting tourism events. It will provide an overview of many topics that can be studied at greater depth in future law courses.

Prerequisite: No prerequisite, admission requirements to home institution

CONV 1060 3 credits

Event Marketing (40 hours)

This course reviews the concepts and tools used to design and implement a successful event marketing strategy. The focus of the course is on applying contemporary principles of strategic marketing to the process of event management. These concepts are applicable to the broadest definition of the event management industry including festivals, sporting events, community celebrations, cultural events, and arts productions. A student-defined case study further defines the application of course content.

Prerequisite: No prerequisite, admission requirements to home institution

CONV 2100 3 credits

Conference Management 1 (3,0,0)

Part 1 of a 2 semester course designed to give the students the skills necessary to plan, organize, manage and evaluate a festival, special event, meeting, seminar or conference. In addition to an overview of the industry, emphasis will be placed on objective setting, team building and program planning.

CONV 2110 3 credits

Conference Management 2 (3,0,0)

Part 2 of a 2 semester course is designed to give the students some practical experience in planning, organizing, managing and evaluating a special event or conference. As well, lecture topics will include transportation arrangements, selection of speakers, and audio-visual arrangements.

Prerequisite: CONV 2100

CONV 2170 3 credits

Fundraising for Non-Profit Organizations (3,0,0)

The intent of this course is to provide the learner with some of the basic skills needed to conduct a fundraising campaign on behalf of a non-profit organization. In addition to discussions about the origins and evolution of philanthropy, learners will be

exposed to various campaign models, public relations strategies and techniques for motivating volunteers.

Prerequisite: TMGT 1150 or equivalent

CONV 2190 3 credits

Destination Marketing Organizations (3,0,0)
Using a Convention and Visitors Bureau as a model, the student will learn about the role that Destination Marketing Organizations play in attracting all types of tourists to a city, region or country. In addition to learning about key market segments and how to attract them, students will learn how Destination Marketing Organizations are structured and funded.

Prerequisite: TMGT 1150 or equivalent

CONV 2240 3 credits

Sports Event Management (3,0,0)
The intent of this course is to provide the learner with an overview of the sports tourism industry and to provide them with some of the basic tools needed to successfully plan a sporting event. Learners will be introduced to the sports event and sport tourism industries and be given the opportunity to explore such topics as risk management for sporting events, volunteer management and event sponsorship.

CONV 2250 3 credits

Sports Event Marketing (3,0,0)
This course is designed to introduce students to some of the skills necessary to effectively market a sporting event. Students will learn how to develop a plan to go after relevant markets including attendees, competitors and sponsors. In addition, students will be exposed to such business concepts as product development, market opportunities and marketing plans.

Prerequisite: TMGT 1150 or equivalent

CONV 2260 3 credits

Managing Festivals and Events (3,0,0)
This course covers the basic skills needed for a businesslike approach to planning and managing a well run, high quality community celebration. The focus of the course is on increasing organizational effectiveness and developing sound managerial strategies. Practical subjects such as fundraising and sponsorship, motivating volunteers, developing effective checklists, developing themes and creative ideas, resources and contacts, and samples of event publicity are also covered.

CONV 2500

Field Trip Activity Fee (Year 2 Events and Conventions Management Diploma)
Required for all second year students of the Events and Conventions Management Diploma program. The opportunity to better understand concepts discussed in the classroom by exposure to their application in industry.

COOK 1100

Culinary Introduction 1 (420 hours)
This course, based on the Provincial Professional Cook Training curriculum for the Professional Cook 1 program, familiarizes students to food handling procedures surrounding safety and sanitation. Students learn safe use of tools and equipment, safe work practices, product identification, and food preparation methods, including seasoning and presentation. This course is the first level of the Provincial Apprenticeship program.

Prerequisite: Admission into Professional Cook 1

Corequisite: Registered Cook Apprenticeship with the Industry Training Authority

COOK 1110

Culinary Introduction 2 (540 hours)
This course, based on the Provincial Professional Cook Training curriculum for the Professional Cook 1 program, familiarizes students to food handling procedures surrounding safety and sanitation. Students learn safe use of tools and equipment, safe work practices, product identification, and food preparation methods, including seasoning and presentation. This course is the first level of the Provincial Apprenticeship program.

Prerequisite: Admission into Professional Cook 1

Corequisite: Registered Cook Apprenticeship with the Industry Training Authority

COOK 1200

Culinary Dining Room (420 hours)
This course is based on the Provincial Professional Cook Training curriculum for the Professional Cook 2 program. Students develop a preliminary understanding of food costing, menu planning and purchasing processes. Using multiple cooking methods, students complete a variety of cooking, baking (including deserts) and food preparation tasks. This course is the second level of the provincial apprenticeship program.

Prerequisite: Admission into Professional Cook 2

Corequisite: Registered Cook Apprenticeship with the Industry Training Authority

COOK 2100

Culinary Apprentice 3 (180 hours)
This course is based on the Provincial Professional Cook Training curriculum for the Professional Cook 3 program. Students develop a preliminary understanding of food costing, menu planning and purchasing processes. Using multiple cooking methods, students complete a variety of cooking, baking (including deserts) and food preparation tasks. This course is the third level of the Provincial Apprenticeship program.

Prerequisite: Admission into Professional Cook 3

Corequisite: Registered Cook Apprenticeship with the Industry Training Authority

COOP 1000 1 credits

Career Management (1.5,0,0)
Students admitted into co-operative education must complete this pre-requisite one credit course prior to their first work term. The course will cover an introduction to co-operative education, career development theory, self-assessment, career communications, interview skills, workplace dynamics, networking, workplace culture and issues specific to co-operative education work terms. Students who are not enrolled in coopertive education may still take this course, but they should determine whether it is accepted by their certificate, diploma, or degree program before registering.

COOP 1050 3 credits

CSOM Co-op Work Term
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 1070 3 credits

ARET Co-op Work Term 1
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 1100 3 credits

NRSC Co-op Work Term 1
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 1110 3 credits

CHEM Co-op Work Term 1
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 1120 3 credits

BIOL Co-op Work Term 1
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 1130 3 credits

BCS Co-op Work Term 1
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study. |Prerequisite: COOP 1000

COOP 1140 3 credits

CPSC Co-op Work Term 1
This course provides TRU students access to co-op education. Co-operative education integrates

academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 1150 3 credits

PHYS Co-op Work Term 1

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 1170 3 credits

BTM Co-op Work Term 1

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 1190 3 credits

BA Co-op Work Term 1

This course will provide Bachelor of Arts students with access to Co-op Education. Co-operative Education integrates academic studies with paid periods of relevant work experience. Co-op provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their academic majors. Co-op work terms appear on students transcripts, as non-credit and are transferable within BC post-secondary institutions. Prerequisite: Students must have a GPA of 2.67 (B-) to enter the BA Co-op Option and must maintain a GPA of 2.67 (B-) throughout the Co-op option. Students must have completed a minimum of 48 credits before beginning Work Term 1. Students must complete at least three work terms to graduate with the Co-op Option on their degree and official transcripts. A student's degree must end on an academic semester.

COOP 1210 3 credits

MATH Co-op Work Term 1

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study. | Prerequisite: COOP 1000

COOP 1550 3 credits

CS Parallel Co-op Work Term

These 3 credit elective courses will provide TRU students increased access to Co-operative Education programming. Co-operative Education integrates academic studies with paid periods of relevant work experience. Co-op provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study. Parallel Co-op occurs over two academic semesters (typically fall and winter semesters) and allows students to gain career related experience while enrolled in full-time studies.

Prerequisite: As per the TRU Calendar for specific program requirements; COOP 1000; students must have completed at least one full time co-op course (co-op work term) prior to enrolling in a parallel co-op course.

COOP 1600 3 credits

NRSC Parallel Co-op Work Term

These 3 credit elective courses will provide TRU students increased access to Co-operative Education programming. Co-operative Education integrates academic studies with paid periods of relevant work experience. Co-op provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study. Parallel Co-op occurs over two academic semesters (typically fall and winter semesters) and allows students to gain career related experience while enrolled in full-time studies.

Prerequisite: As per the TRU Calendar for specific program requirements; COOP 1000; students must have completed at least one full time co-op course (co-op work term) prior to enrolling in a parallel co-op course.

COOP 1610 3 credits

CHEM Parallel Co-op Work Term

These 3 credit elective courses will provide TRU students increased access to Co-operative Education programming. Co-operative Education integrates academic studies with paid periods of relevant work experience. Co-op provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study. Parallel Co-op occurs over two academic semesters (typically fall and winter semesters) and allows students to gain career related experience while enrolled in full-time studies.

Prerequisite: As per the TRU Calendar for specific program requirements; COOP 1000; students must have completed at least one full time co-op course (co-op work term) prior to enrolling in a parallel co-op course.

COOP 1620 3 credits

BIOL Parallel Co-op Work Term

These 3 credit elective courses will provide TRU students increased access to Co-operative Education programming. Co-operative Education integrates academic studies with paid periods of relevant work experience. Co-op provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study. Parallel Co-op occurs over two academic semesters (typically fall and winter semesters) and allows students to gain career related experience while enrolled in full-time studies.

Prerequisite: As per the TRU Calendar for specific program requirements; COOP 1000; students must have completed at least one full time co-op course (co-op work term) prior to enrolling in a parallel co-op course.

COOP 1630 3 credits

BCS Parallel Co-op Work Term

These 3 credit elective courses will provide TRU students increased access to Co-operative Education programming. Co-operative Education integrates academic studies with paid periods of relevant work experience. Co-op provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study. Parallel Co-op occurs over two academic semesters (typically fall and winter semesters) and allows students to gain career related experience while enrolled in full-time studies.

Prerequisite: As per the TRU Calendar for specific program requirements; COOP 1000; students must have completed at least one full time co-op course (co-op work term) prior to enrolling in a parallel co-op course.

COOP 1640 3 credits

BSc CPSC Co-op Work Term

These 3 credit elective courses will provide TRU students increased access to Co-operative Education programming. Co-operative Education integrates academic studies with paid periods of relevant work experience. Co-op provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study. Parallel Co-op occurs over two academic semesters (typically fall and winter semesters) and allows students to gain career related experience while enrolled in full-time studies.

Prerequisite: As per the TRU Calendar for specific program requirements; COOP 1000; students must have completed at least one full time co-op course (co-op work term) prior to enrolling in a parallel co-op course.

COOP 1650 3 credits

PHYS Parallel Co-op Work Term

These 3 credit elective courses will provide TRU students increased access to Co-operative Education programming. Co-operative Education integrates academic studies with paid periods of relevant work experience. Co-op provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study. Parallel Co-op occurs over two academic semesters (typically fall and winter semesters) and allows students to gain career related experience while enrolled in full-time studies.

Prerequisite: As per the TRU Calendar for specific program requirements; COOP 1000; students must have completed at least one full time co-op course (co-op work term) prior to enrolling in a parallel co-op course.

COOP 1670 3 credits

BTM Parallel Co-op Work Term

These 3 credit elective courses will provide TRU students increased access to Co-operative Education programming. Co-operative Education integrates academic studies with paid periods of relevant work experience. Co-op provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study. Parallel Co-op occurs over two academic semesters (typically fall and winter semesters) and allows students to gain career related experience while enrolled in full-time studies. Prerequisite: As per the TRU Calendar for specific program requirements; COOP 1000; students must have completed at least one full time co-op course (co-op work term) prior to enrolling in a parallel co-op course.

COOP 1690 3 credits
BA Parallel Co-op Work Term
These 3 credit elective courses will provide TRU students increased access to Co-operative Education programming. Co-operative Education integrates academic studies with paid periods of relevant work experience. Co-op provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study. Parallel Co-op occurs over two academic semesters (typically fall and winter semesters) and allows students to gain career related experience while enrolled in full-time studies.

Prerequisite: As per the TRU Calendar for specific program requirements; COOP 1000; students must have completed at least one full time co-op course (co-op work term) prior to enrolling in a parallel co-op course.

COOP 1710 3 credits
Mathematics Parallel Co-op Work Term
These 3 credit elective courses will provide TRU students increased access to Co-operative Education programming. Co-operative Education integrates academic studies with paid periods of relevant work experience. Co-op provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study. Parallel Co-op occurs over two academic semesters (typically fall and winter semesters) and allows students to gain career related experience while enrolled in full-time studies.

Prerequisite: As per the TRU Calendar for specific program requirements; COOP 1000; students must have completed at least one full time co-op course (co-op work term) prior to enrolling in a parallel co-op course.

COOP 2050 3 credits
CSOM Co-op Work Term
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 2070 3 credits
ARET Co-op Work Term 2
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 2080 3 credits
ENGR Co-op Work Term 1
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 2100 3 credits
NRSC Co-op Work Term 2
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 2110 3 credits
CHEM Co-op Work Term 2
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 2120 3 credits
BIOL Co-op Work Term 2
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 2130 3 credits
BCS Co-op Work Term 2
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 2140 3 credits
CPSC Co-op Work Term 2
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 2150 3 credits
PHYS Co-op Work Term 2
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study. |Prerequisite: COOP 1000

COOP 2170 3 credits
BTM Co-op Work Term 2
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 2180 3 credits
ENGR Co-op Work Term
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000 and COOP 2080

COOP 2190 3 credits
BA Co-op Work Term 2
This course will provide Bachelor of Arts students with access to Co-op Education. Co-operative Education integrates academic studies with paid periods of relevant work experience. Co-op provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their academic majors. Co-op work terms appear on students transcripts, as non-credit and are transferable within BC post-secondary institutions. Prerequisite: Students must have a GPA of 2.67 (B-) to enter the BA Co-op Option and must maintain a GPA of 2.67 (B-) throughout the Co-op option. Students must have completed a minimum of 48 credits before beginning Work Term 1. Students must complete at least three work terms to graduate with the Co-op Option on their degree and official transcripts. A student's degree must end on an academic semester.

COOP 2200 3 credits
Co-op Abroad
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 2210 3 credits
MATH Co-op Work Term 2
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3050 3 credits
CSOM Co-op Work Term
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work

experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study. Prerequisite: COOP 1000

COOP 3070 3 credits

ARET Co-op Work Term 3

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3080 3 credits

Engineering Co-op Work-Term 1 (420 Hours)

This course provides TRU students access to Co-op Education. Co-operative Education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific

competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3100 3 credits

NRSC Co-op Work Term 3

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3110 3 credits

CHEM Co-op Work Term 3

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3120 3 credits

BIOL Co-op Work Term 3

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3130 3 credits

BCS Co-op Work Term 3

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3140 3 credits

CPSC Co-op Work Term 3

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3150 3 credits

PHYS Co-op Work Term 3

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3160 3 credits

BBA Co-op Work Term 1

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3170 3 credits

BTM Co-op Work Term 3

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3180 3 credits

Engineering Co-op Work-Term 2 (420 Hours)

This course provides TRU students access to Co-op Education. Co-operative Education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific

competencies, professional skills and technical knowledge related to their field of study.

Prerequisites: COOP 1000 AND COOP 3080

COOP 3190 3 credits

BA Co-op Work Term 3

This course will provide Bachelor of Arts students with access to Co-op Education. Co-operative Education integrates academic studies with paid periods of relevant work experience. Co-op provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their academic majors. Co-op work terms appear on students transcripts, as non-credit and are transferable within BC post-secondary institutions. Prerequisite: Students must have a GPA of 2.67 (B-) to enter the BA Co-op Option and must maintain a GPA of 2.67 (B-) throughout the Co-op option. Students must have completed a minimum of 48 credits before beginning Work Term 1. Students must complete at least three work terms to graduate with the Co-op Option on their degree and official transcripts. A student's degree must end on an academic semester.

COOP 3200 3 credits

Co-op Abroad

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3210 3 credits

MATH Co-op Work Term 3

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3220 3 credits

BIS Co-op Work Term 1

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3230 3 credits

BIS Co-op Work Term 2

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3240 3 credits

BIS Co-op Work Term 3

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3250 3 credits

BIS Parallel Co-op Work Term

These 3 credit elective courses will provide TRU students increased access to Co-operative Education programming. Co-operative Education integrates academic studies with paid periods of relevant work experience.

Co-op provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study. Parallel Co-op occurs over two academic semesters (typically fall and winter semesters) and allows students to gain career related experience while enrolled in full-time studies.

Prerequisite: As per the TRU Calendar for specific program requirements; COOP 1000; students must have completed at least one full time co-op course (co-op work term) prior to enrolling in a parallel co-op course.

COOP 3280 3 credits

Engineering Co-op Work-Term 3 (420 Hours)

This course provides TRU students access to Co-op Education. Co-operative Education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific

competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3550 3 credits

CSOM Co-op Work Term

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3600 3 credits

NRSC Co-op Work Term 4

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3610 3 credits

CHEM Co-op Work Term 4

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3620 3 credits

BIOL Co-op Work Term 4

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3630 3 credits

BCS Co-op Work Term 4

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3640 3 credits

CPSC Co-op Work Term 4

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3650 3 credits

PHYS Co-op Work Term 4

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 3660 3 credits

BBA Co-op Work Term 2

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000, COOP 3160

COOP 3690 3 credits

BA Co-op Work Term 4

This course will provide Bachelor of Arts students with access to Co-op Education. Co-operative Education integrates academic studies with paid periods of relevant work experience. Co-op provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their academic majors. Co-op work terms appear on students transcripts, as non-credit and are transferable within BC post-secondary institutions. Prerequisite: Students must have a GPA of 2.67 (B-) to enter the BA Co-op Option and must maintain a GPA of 2.67 (B-) throughout the Co-op option. Students must have completed a minimum of 48 credits before beginning Work Term 1. Students must complete at least three work terms to graduate with the Co-op Option on their degree and official transcripts. A student's degree must end on an academic semester.

COOP 3710 3 credits

MATH Co-op Work Term 4

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 4080 3 credits

Engineering Co-op Work-Term 4 (420 Hours)

This course provides TRU students access to Co-op Education. Co-operative Education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific

competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 4100 3 credits

NRSC Co-op Work Term 5

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 4110 3 credits

CHEM Co-op Work Term 5

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 4120 3 credits

BIOL Co-op Work Term 5

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 4130 3 credits

BCS Co-op Work Term 5

This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 4140 3 credits
CPSC Co-op Work Term 5
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 4150 3 credits
PHYS Co-op Work Term 5
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 4160 3 credits
BBA Co-op Work Term 3
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000, COOP 3160, COOP 3660

COOP 4170 3 credits
BTM Co-op Work Term 5
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 4180 3 credits
Engineering Co-op Work-Term 5 (420 Hours)
This course provides TRU students access to Co-op Education. Co-operative Education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific

competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 4190 3 credits
BA Co-op Work Term 5
This course will provide Bachelor of Arts students with access to Co-op Education. Co-operative Education integrates academic studies with paid periods of relevant work experience. Co-op provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their academic majors. Co-op work terms appear on students transcripts, as non-credit and are transferable within BC post-secondary institutions. Prerequisite: Students must have a GPA of 2.67 (B-) to enter the BA Co-op Option and must maintain a GPA of 2.67 (B-) throughout the Co-op option. Students must have completed a minimum of 48 credits before beginning Work Term 1. Students must complete at least three work terms to graduate with the Co-op Option on their degree and official transcripts. A student's degree must end on an academic semester.

COOP 4200 3 credits
Co-op Abroad
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 4210 3 credits
MATH Co-op Work Term 5
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000

COOP 4660 3 credits
BBA Co-op Work Term 4
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000, COOP 3160, COOP 3660, COOP 4160

COOP 4680 3 credits
BBA Co-op Work Term 5 (420 hours)
This course provides TRU students access to co-op education. Co-operative education integrates academic studies with paid periods of relevant work experience and provides students with the opportunity to develop specific

competencies, professional skills and technical knowledge related to their field of study.

Prerequisite: COOP 1000, COOP 3160, COOP 3660, COOP 4160 and COOP 4660

CSSW 1650 4 credits
Field Work (0,2,14P)
This course requires students to be in the field two days per week and to attend weekly two hour practicum seminars. At this time such topics as team work, time management, advocacy, sexuality and family support for individuals with challenges will be discussed, in addition to practicum related issues/concerns. There will be a two week block fieldwork experience at the end of this course.

Prerequisite: All Fall semester courses. Admission to the Human Service Programs.

CTMR 1000
Commercial Transport Vehicle Mechanic Apprentice Level 1
Commercial Transport Vehicle Mechanic means a person who maintains, rebuilds, overhauls, reconditions, does diagnostic troubleshooting and repair of motorized commercial truck, bus and road transport equipment. Technical Training Content: Electrical and Electronic Systems; Wheels, Hubs and Brakes; Frames, Chassis and Steering; Cabs, Bodies and Access.

Prerequisite: Registered Commercial Transport Vehicle Mechanic apprentice with the Industry Training Authority

CTMR 2000
Commercial Transport Vehicle Mechanic Apprentice Level 2
Commercial Transport Vehicle Mechanic means a person who maintains, rebuilds, overhauls, reconditions, does diagnostic troubleshooting and repair of motorized commercial truck, bus and road transport equipment. Technical Training Content: Work Practices and Procedures; Electrical and Electronic Systems; Cabs, Bodies and Accessories; Fuel Systems; Drive Train; Engines and Support Systems.

Prerequisite: Registered Commercial Transport Vehicle Mechanic apprentice with the Industry Training Authority

CTMR 3000
Commercial Transport Vehicle Mechanic Apprentice Level 3
Commercial Transport Vehicle Mechanic means a person who maintains, rebuilds, overhauls, reconditions, does diagnostic troubleshooting and repair of motorized commercial truck, bus and road transport equipment. Technical Training Content: Electrical and Electronic Systems; Fuel Systems; Engines and Support Systems.

Prerequisite: Registered Commercial Transport Vehicle Mechanic apprentice with the Industry Training Authority

CTMR 4000
Commercial Transport Vehicle Mechanic Apprentice Level 4
Commercial Transport Vehicle Mechanic means a person who maintains, rebuilds, overhauls, reconditions, does diagnostic troubleshooting and repair of motorized commercial truck, bus and road transport equipment. Technical Training Content: Work Practices and Procedures; Wheels, Hubs and Brakes; Electrical and Electronic Systems; Cabs, Bodies and Accessories; Fuel Systems; Engines and Support Systems.

Prerequisite: Registered Commercial Transport Vehicle Mechanic apprentice with the Industry Training Authority

CYCA 1820 4 credits
Practicum 1 (0,2,8p)
A practicum course which combines classroom activities and a work-place experience to assist students to integrate core concepts into their practice as child and youth care workers, to develop their skills as practitioners to engage in the design and delivery of individual and/or group programs with agency supervision and faculty contact.

Prerequisite: Admission to the Child and Youth Care Diploma program and successful completion of or

current registration in all second year core courses (CYCA 2000, 2010, 2020, 2530 and 2540)

CYCA 2000 3 credits

Introduction to Professional Foundations of Child and Youth Care (3,0,0)

This course provides an overview of the foundations of professional child and youth care practice.

Topics include a review of the history of the child and youth care field and an identification of current child and youth care practice settings. Current theory and practice perspectives are explored, in addition to issues related to professional identity, ethical practice, children's rights, and interdisciplinary work. Reflection on one's personal readiness for professional child and youth care practice is a focus of this course.

Prerequisites: Admission to the Human Service Diploma Program or Permission of the Program Coordinator

CYCA 2020 3 credits

Theoretical Foundations in Child and Youth Care (3,0,0)

Students are introduced to theory and practice and how these two concepts relate. Students explore three specific ways of thinking about, understanding, and dealing with behaviour and behaviour change: behavioural, psychodynamic, and systemic. The influence of normative development, multiculturalism, and gender sensitivity on therapeutic interventions is discussed.

Prerequisite: Admission to the Child and Youth Care Diploma program or Human Service Diploma

Note: Students cannot receive credit for both CYCA 2020 and HUMS 2220

CYCA 2240 3 credits

Introduction to Child and Youth Trauma (3,0,0)

In this course, students will examine the effect of trauma and trauma-related issues on children, youth, families and communities. Consideration is given to trauma in attachment, child abuse and neglect, child and youth mental health and substance use. Students will examine the impact of trauma exposure to the developing brain, physiology, psyche and regulatory system. This course will provide students with an introduction to trauma informed practice in a variety of practice settings.

Prerequisites: CYCA 2000 OR CYCA 2001 AND HUMS 2220

CYCA 2500 3 credits

Special Topics (3,0,0)

Students are provided an opportunity to examine selected current issues in child and youth care.

Prerequisite: Admission to the Child and Youth Care Diploma program

CYCA 2530 3 credits

Self and the Helping Relationship as a Context for Change (3,0,0)

An effective helper must be aware of the values, language, contextual speech, gender, and cultural differences affecting his or her relationships. The ideas, concepts, and topics in this course emphasize the role and development of self as helper, and the importance and use of the helping relationship as a context for facilitating change. Prerequisite: Admission to the Child and Youth Care Diploma program

Note: Students cannot receive credit for more than one of HUMS 2531, HUMS 2350 or CYCA 2530

CYCA 2620 3 credits

Introduction to Working with Groups in Human Service Practice (3,0,0)

Students examine group development theory and the use of theories in human service practice. Participants develop an awareness of themselves as group participants. Topics include planning for group work, facilitating groups, dealing with group dynamics and challenges, and enhancing group safety. There is an emphasis on group work with children and youth.

DAAD 1100 3 credits

Communications Graphics (2,1,0)(L)

This course is designed to develop students' awareness of the principles and practice involved in the production and design of effective visual communications for both audio/visual and print production. Creative and practical applications of typography, photography and illustration are examined, as they relate to visual problem solving in a computer graphics environment. Oral and visual presentation skills are emphasized.

Prerequisite: DAAD 1200, CMNS 1750

DAAD 1200 3 credits

Graphic Design (2,1,0)

Effective design communicates a message within a given context: superior design requires the combining of various elements including words, photographs, illustrations, and graphic images in a manner that achieves an interaction with the intended audience. This course encourages students to explore their creative potential by working with these elements through conscious experimentation while studying the effects of reworking and refining ideas.

Corequisite: CMNS 1750

DAAD 1950 3 credits

Desktop Publishing and Digital Prepress 1 (2,1,3)(L)

This course introduces the issues and technologies involved in moving print-based design projects from concept to final output. This is accomplished through a study of print technologies, their limitations and attributes, and an exploration of common computer-based publishing technologies.

Prerequisite: DAAD 1200, CMNS 1760, CMNS 1750 (or relevant work experience with a work portfolio)

DAAD 1960 3 credits

New Media 1: Multimedia, Animation and Online Publishing (2,1,3)(L)

This hands-on course introduces students to the fundamental principles and techniques used in the design of effective user interfaces. Students develop user-centric designs that conform to current W3C standards. Topics includ.. designing with HTML5, CSS3 and responsive design for delivery to mobile devices; project planning (storyboards, wireframes, sitemaps and other planning documents); principles of animation (time, motion); principles of presentation design (both esthetic and pragmatic, including the use of color and images); an introduction to content management systems (CMS); and the management of technical issues associated with electronic design (proper file formats, moving information, and network-based publishing). Students utilize prevailing industry standard software as they are introduced to a variety of development techniques; however, students also learn separation of structure and content from design by hand coding.

Prerequisite: DAAD 1100 and DAAD 1200 and DAAD 1950 and CMNS 1760

DAAD 2950 3 credits

Desktop Publishing & Digital Prepress 2 (2,1,3)(L)

Continuing from DAAD 1950, this course examines the issues and technologies involved in moving print-based design projects from concept to final output. Issues involving advanced color usage, service bureau liaison, and high-end printing are studied in greater depth.

Prerequisite: DAAD 1100, 1200, 1950 and CMNS 1760

DAAD 2960 3 credits

New Media 2: Multimedia, Animation and Online Publishing (2,1,3)(L)

2Students continue to explore the development and design of effective user interfaces. In addition to the refinement of skills previously learned in DAAD 1960, students have an opportunity to study designing for social media, SEO (search engine optimization), and web analytics. As projects increase in complexity, students examine issues such as maintaining styles in large web sites, template development, and working with leading edge technologies such as streaming media and animation. Team based learning is an important aspect of this class and teams are required to design and develop an actual working Web site for a client within the community.

Prerequisite: DAAD 1960

DRAF 1520 3 credits

Engineering Graphics (2,0,3)(L)

This course is intended for students in first-year engineering. The course covers the fundamentals of orthographic projection, technical sketching, engineering graphic standards and conventions, and graphic solution of space and vector problems. Conventional drafting techniques are limited to sketched solutions, with the majority of the assignments being performed on the computer using CAD software. The course includes three hours per week of computer lab time during which students will learn to operate AutoCAD software on PC workstations.

Prerequisite: Admission to Engineering Transfer Program or written consent of Program Coordinator

Required Lab: DRAF 1520L

ECED 1200 4 credits

Practicum 1 - Developing Relationships with Children (0,2,10P)(L)

This is an innovative field practice course designed to allow students to apply the knowledge, skills and attitudes required to become an effective educator of young children. Students have repeated opportunities to practice observation and documentation techniques, prepare the learning environment, develop relationships with children, and guide behavior with the mentorship of early childhood educators and a practicum instructor. Students integrate theoretical knowledge, use reflective practice and demonstrate professional conduct.

Prerequisite: Admission to the Early Childhood Education Program | Corequisite: ECED 1320, ECED 1350

ECED 1300 4 credits

Practicum 2 - Program Planning for Young Children (0,2,10P)(L)

Building on the goals of ECED 1200: Practicum 1, students integrate their knowledge and skills while participating as a team member in child care programs. Students take on additional responsibilities related to curriculum planning, managing a program, and responsibility for documentation with the mentorship of an early childhood educator and a practicum instructor. Students introduce a project to a group of young children, observe and record children's learning, and make the learning visible to the children, families, educators, and community.

Prerequisite: Admission to the Early Childhood Education Program; ECED 1200

ECED 1320 3 credits

Child Guidance (4,0,0)(L)

This course is designed to demonstrate the positive influential effects of developmentally appropriate practice and a positive environment on children's behaviour. Students are instructed in how to support children's social and emotional development through an examination of the significance of play, interpreting children's behaviour, and individualizing interactions with children. To practice direct and indirect guidance strategies, students focus on the development of meaningful relationships and positive self-esteem for young children.

Prerequisite: Admission to the Early Childhood Education Program or permission from course instructor

Corequisites: ECED 1200, ECED 1350 if admitted to the Early Childhood Education program

ECED 1330 3 credits

Child Health (3,0,0)

Holistic health and wellness principles to support children's development is the focus of this course. An emphasis is placed on strategies to promote children's understanding of good health and nutritional habits. Students explore the health and safety of children by examining health related agencies, health regulations, and children with exceptionalities. Additional topics include personal wellness, childhood illness, and hospitalization.

Prerequisite: Admission to the Early Childhood Education Program or permission from course instructor

ECED 1340 3 credits

Communication (3,0,0)

Effective interdependent relationships are essential to the work of early childhood educators. Self-awareness, and an ongoing commitment to become a competent communicator are fundamental to the development of positive relationships. An emphasis on personal reflection offers students the opportunity to learn and use interpersonal communication skills effectively. Students examine the qualities of ethical, constructive, and respectful communication.

Prerequisite: Admission to the Early Childhood Education Program or permission from course instructor

Note: Students cannot receive credit for more than one of EDCS 1540, HUMS 1540 or ECED 1340

ECED 1350 3 credits

Introduction to Program Planning (4,0,0)(L)

An exploration of art media and authentic materials develops student's competence and creativity prior to implementing activities with children. Emphasis is on the preparation of the learning environment, both physical and social, routines, and the role of the educator to develop, implement, evaluate, and document appropriate educational experiences for children. The British Columbia Early Learning Framework and pedagogical narrations are introduced.

Prerequisite: Admission to the Early Childhood Education Program

Corequisite: ECED 1200, ECED 1320

ECED 1360 3 credits

Curriculum Development (4,0,0)(L)

Students examine the principles to develop, implement and evaluate a play-based program with key concepts in language and literacy and music and movement across the curriculum. Students learn theory and gain practical knowledge to plan activities in which young children can explore sound, movement, music, books, stories, drama, and beginning literacy, within the context of the whole program for children.

Prerequisite: Admission to the Early Childhood Education Program; ECED 1200, ECED 1350

Corequisite: ECED 1300

ECED 1440 3 credits

Interpersonal Relations - Helping Interactions (3,0,0)

Building upon the knowledge and skills acquired in ECED 1340: Communications, students examine the essentials of professional interdependent relationships. Topics include leadership, effective communication, and problem-solving skills. Students practice assertive communication, intercultural awareness, and team building.

Prerequisite: Admission to the Early Childhood Education Program; ECED 1340

Note: Students cannot receive credit for more than one of ECED 1340, HUMS 2530 OR ECED 1440

ECED 2200 5 credits

Practicum 3 - Demonstration Practicum (0,2,16P)(L)

This is an advanced practicum course designed to give students opportunities to apply their skills and knowledge of the role of the educator in a community child care program under the supervision of a practicum instructor and a designated sponsor educator. Students take on a leadership role to design and implement curriculum, in addition to having more opportunities for reflection and the practice of ethical decision-making. Students introduce a project to a group of young children, observe and record children's learning, and make the learning visible to the children, families, educators, and community.

Prerequisite: Completion of ECED 1200, ECED 1300, ECED 1320, ECED 1350, ECED 1340, ECED 1360

Corequisite: ECED 2350

ECED 2300 5 credits

Practicum 4 - Programming for Individual Children (0,2,16P)(L)

While continuing to pursue the goals of practicum 1, 2, & 3, (professional principles, observation and recording techniques, preparation of the learning environment, developing and maintaining relationships with children, guiding children and program planning), this course concentrates on the development of program plans for individual children within group settings.

Prerequisite: Completion of the Early Childhood Education Certificate

Corequisite: ECED 2310, ECED 2550

ECED 2310 3 credits

Child Growth and Development - Individual Differences (2,2,0)(L)

This course combines theory and ongoing research with examples of practical application. The purpose is to develop an understanding of the individual differences in intellectual, physical and social emotional development of children.

Prerequisite: Completion of Year 1 of the Early Childhood Education Program

Corequisite: ECED 2300, ECED 2550

ECED 2350 3 credits

Advanced Program Development (4,0,0)(L)

This course surveys the historical foundations of Early Childhood Education through an examination of the theories and practices of important philosophers and educators. A discussion of philosophy and play lays the groundwork for students to examine values and beliefs with the purpose of articulating a personal philosophy to guide their practice. In-depth projects, reflective practice, and a variety of curriculum models are essential to this course.

Prerequisite: Completion of ECED 1200, ECED 1300, ECED 1320, ECED 1350, ECED 1340, ECED 1360

Corequisite: ECED 2200

ECED 2400 4 credits

Practicum 5 - Infant and Toddler Care (0,2,35p)(L)

This course will allow the student to put into practice all the goals of practica 1, 2, 3 & 4 (professional principles, observation and recording techniques, preparation of the learning environment, developing and maintaining relationships with children, guiding children and program planning), with infants and toddlers.

Prerequisite: Completion of the Early Childhood Education Certificate

Corequisite: ECED 2450, ECED 2410

ECED 2410 3 credits

Development and Care of Infants and Toddlers (2,1,0)(L)

Development of infants and toddlers are looked at with a particular emphasis on physical care, emotional needs, health and nutritional needs of children under three.

Prerequisite: Completion of the Early Childhood Education Certificate

Corequisite: ECED 2400, ECED 2450

ECED 2440 3 credits

Interpersonal Relations - Working with Families (3,0,0)

A strong, reciprocal and respectful relationship between families and educators is a critical component of quality early childhood education programs. The impact of personal experiences on professional interactions are examined within the context of understanding diverse family structures and contemporary issues. Interpersonal communication strategies for building relationships, problem-solving, and conflict resolution with families are explored, and a variety of strategies to share information with families are reviewed.

Prerequisite: Completion of ECED 1200, ECED 1300, ECED 1320, ECED 1350, ECED 1340, ECED 1360 or with permission from the course instructor

Exclusion: HUMS 1560

ECED 2450 3 credits

Program Development for Infants and Toddlers (2,1,0)(L)

This course focuses on the development of enriching programs and environments for children under three years of age that will provide for the maximum development of the whole child.

Prerequisite: Completion of the Early Childhood Education Certificate

Corequisite: ECED 2400, ECED 2410

ECED 2490 3 credits

Administration of Early Childhood Education Programs (3,0,0)

Students examine the aspects involved in the administration and supervision of early childhood programs. Topics include organizational structure, policies, procedures, and budget preparation, licensing regulations, staff relations, personnel management, and leadership. Students apply course content to design a comprehensive educational program for young children.

Prerequisite: Completion of ECED 1200, ECED 1300, ECED 1320, ECED 1350, ECED 1340, ECED 1360 or with permission from the course instructor

ECED 2550 3 credits

Programming for Individual Children (2,1,0)(L)

Students will gain knowledge about the supported child care program in British Columbia; observation and assessment techniques; report writing; developing, implementing and evaluating individualized education plans; case conferencing with a variety of community professionals; and increased awareness of the range of support services for children.

Prerequisite: Completion of the Early Childhood Education Certificate

Corequisite: ECED 2300, ECED 2310

ECED 3300 5 credits

Field Experience: Programming for Individual Children (0,2,16P)(L)

Field experience provides opportunities for both planned and spontaneous programming for children who require extra support due to a variety of exceptionalities. An in-depth investigation of inclusive practice is the guiding factors throughout the experience. Students demonstrate advanced skill acquisition, professional practice, reflective skills and integration of theory into practice, with expectations for increased complexity over each week in practicum.

Prerequisite: Completion of the Early Childhood Education Certificate

Corequisite: ECED 3550

Exclusion: ECED 2300

ECED 3310 3 credits

Child Growth and Development - Individual Differences (2,2,0)(L)

Contemporary theory and research are combined to critically examine the complexities of developmental differences in individual children. Practical applications of developmental theory in providing for the social, emotional, physical and intellectual needs of young children are explored. Students develop an inclusive and respectful understanding of the individual differences between children. Furthermore, students explore a multi-disciplinary approach in the exemplary care and education of children. Strategies of support families are investigated.

Prerequisite: Completion of Early Childhood Education Certificate/Diploma or ECE Program Coordinator approval

Exclusion: ECED 2310

ECED 3350 3 credits

Programming for Individual Children (2,1,0)(L)

Students are exposed to the Canadian perspective of inclusion and the supported child care development program in British Columbia. Individual educational plans are discussed from a theoretical perspective, with an emphasis on development, implementation, and evaluation. In addition, observation and assessment techniques, report writing, and case conferencing with a variety of community professionals are explored. Finally, a range of local, provincial and national support services are researched and disseminated.

Prerequisite: Completion of the Early Childhood Education Certificate

Corequisite: ECED 3300, ECED 3310

Exclusion: ECED 2550

ECED 3400 4 credits

Infant and Toddler Field Experience (0,2,35)(L)

Field experience implements opportunities for planned and spontaneous programming and to foster respectful interactions with infants and toddlers. Students reflect upon previous experiences, assimilate new knowledge, theory and research, and apply it to their practice with infants and toddlers. Students demonstrate advanced professional competencies, knowledge and reflective skills. Students formulate an action based research question related to the sensorial and/or social environment to support their program planning. Students use pedagogical narrations to disseminate research outcomes with children, families, educators and class members.

Prerequisite: Completion of the ECE certificate/diploma

Corequisite: ECED 3410 and 3450

Exclusion: 2400

ECED 3410 3 credits

Development and Care of Infants and Toddlers (3,0,0)(L)

The development of infants and toddlers is examined with a particular emphasis on best practices related to physical care, emotional needs, health, and nutrition. Through critical reflection upon foundational and contemporary research, students explore pan-Canadian and cross cultural perspectives of infant and toddler care and development. Students are familiarized with local and provincial agencies that support child development.

Prerequisite: Completion of Early Childhood Education certificate/diploma or ECE Program Coordinator approval

Corequisite: ECED 3400 and 3450

Note: Students cannot receive credit for both EDEC 3410 and ECED 2410

ECED 3450 3 credits

Program Development for Infants and Toddlers (3,0,0)(L)

Best practices for infants and toddlers in group care that are enriching, developmentally appropriate, and based on the principles of caregiving are the focus of study. Students have the opportunity to critically reflect on research related to philosophy and pedagogy of infant and toddler care and education. The educator's role in establishing a welcoming physical environment, active learning, warm supportive child-adult interactions, schedules and caregiving routines that meet the needs of infants and toddlers, educator and parent partnerships, and pedagogical narrations are explored.

Prerequisite: Completion of the Early Childhood Education certificate/diploma

Corequisite: ECED 3410 and ECED 3400

Note: Students cannot receive credit for both ECED 3450 and ECED 2410

ECON 1220 3 credits

Introduction to Basic Economics (3,0,0)

Students develop a basic understanding of economic principles, which allows for and encourages informed discussion of media-covered issues. Topics include contrasting macroeconomics and microeconomics; gross domestic product; economic growth and business cycles; unemployment and inflation; aggregate supply and demand; scarcity, opportunity costs, globalization and trade; law of supply and demand; accounting versus economic profits; money and exchange rates; government choices, markets, efficiency, and equity; monopoly and competition; externalities, public goods, and free riders.

Note: Students will not receive credit for ECON 1220 unless it has been completed prior to earning a grade of C- or better in either ECON 1900 or ECON 1950.

ECON 1221-Introduction to Basic Economic

ECON 1900 3 credits

Principles of Microeconomics (3,0,0)

Students examine the interactions between individuals and firms in various types of markets. Topics include a definition of economics; demand and supply analysis; consumer theory; production and cost; market structure including perfect competition, monopoly, monopolistic competition, and oligopoly; market efficiency and market failure; resource markets; and international trade.

Prerequisite: B or better in Foundations of Math 11 or Pre-calculus Math 11 (BC graduates of 2013 onward); or C+ minimum in Principles of Math 11 or Applications of Math 12 or equivalent (BC graduates prior to 2013); or MATH 0510 or MATH 0530 or equivalent.

Completion of one of Principles of Math 12, Foundations of Math 12, or Pre-calculus Math 12 is highly recommended

ECON 1950 3 credits

Principles of Macroeconomics (3,0,0)

Students examine economic behaviour at the aggregate level, and the measurement and determination of national income. Topics include an introduction to economics; measuring macroeconomic variables including gross domestic product, unemployment, and inflation; the Keynesian model; aggregate demand and supply; money and banking; the money market; fiscal policy; monetary policy and the central bank; exchange rates and the balance of payments; and economic growth.

Prerequisite: B or better in Foundations of Math 11 or Pre-calculus Math 11 (BC graduates of 2013 onward); or C+ minimum in Principles of Math 11 or Applications of Math 12 or equivalent (BC graduates prior to 2013); or MATH 0510 or MATH 0530 or equivalent. Completion of one of Principles of Math 12, Foundations of Math 12, or Pre-calculus Math 12 is highly recommended

ECON 2220 3 credits

Economics for Tourism, Recreation and Leisure (3,0,0)

Students examine tourism, recreation and leisure from an economic perspective and take the viewpoint of both the demand side and the supply side of the economy. Topics include organizations and markets, market structure and pricing, the role of the external economic environment, cost-benefit analysis for projects, the economic impact of the tourism sector on development, the global impacts on the tourism, recreation and leisure sectors, and the economic assessment of environmental impacts of tourism and sustainability.

Prerequisite: ECON 1220 or ECON 1900 and ECON 1950

ECON 2320 3 credits

Economics and Business Statistics 1 (3,0,0)

Students are introduced to statistics with an emphasis on its applications in business and economics. Topics include descriptive statistics and numerical measures; an introduction to probability; discrete and continuous probability distributions; sampling and sampling distributions; interval estimations; and testing hypotheses and statistical inferences.

Prerequisite: ECON 1220 or ECON 1900 and ECON 1950

Note:Students cannot receive credit for more than one of MATH 1200, STAT 1200, STAT 2000, ECON 2320, PSYC 2100, SOCI 2710, BIOL 3000, and SOCI 3710

ECON 2330 3 credits

Economics and Business Statistics 2 (3,0,0)

Students study advanced statistical techniques and methods and their applications in business and economics. Topics include inferences about population variance, including hypothesis testing and confidence intervals; analysis of variance and experimental designs; simple and multiple regressions; time series analysis and forecasting; statistical quality control; and decision analysis. Students are required to apply statistical techniques using Excel and/or Minitab.

Prerequisite: ECON 1220 or ECON 1900 and ECON 1950; ECON 2320 or equivalent; MIST 2610

Note: Students cannot receive credit for more than one of ECON 2330, ECON 3330, STAT 2410, and STAT 3060

ECON 2430 3 credits

Global and Canadian Economic Issues (3,0,0)

Students examine a variety of economic issues facing the Canadian and world economies. The topics discussed each semester vary and may include economic crisis, environmental challenges, 'big' business and multinational corporations, globalization, free trade, health care, education, poverty, and the economics of crime.

Prerequisite: ECON 1220 or both ECON 1900 and ECON 1950

ECON 2630 3 credits

Issues in Aboriginal Economics (3,0,0)

Students investigate issues related to Aboriginal self-governance and economic development. Topics include the economic rationale for implementing aboriginal rights and titles; the economic explanation for income differences between First Nations and non-First Nations; the First Nations public sector; market failures and successes of First Nations; approaches to First Nations economic development; and government policy initiatives to improve First Nations economies, including a third order of government for aboriginal peoples.

Prerequisite: ECON 1220 or ECON 1900 and ECON 1950

Note: Students cannot receive credit for both ECON 2630 and ECON 2631

ECON 2900 3 credits

Intermediate Microeconomics 1 (3,0,0)

Students examine at a more advanced level how individuals and firms interact in various types of markets. Topics include consumer and producer behaviour; partial equilibrium analysis for perfectly competitive markets; and aspects of monopoly and imperfectly competitive markets. This course prepares students for advanced courses in economics.

Prerequisite: ECON 1900 AND MATH 1170

ECON 2950 3 credits

Intermediate Macroeconomics 1 (3,0,0)

Students complete an advanced, in-depth examination of economic behaviour at the aggregate level. Topics include the determination and distribution of output in the long run; the classical dichotomy and neutrality of money; the measurement, problems, and determinants of unemployment and inflation in the long run; and the role of capital accumulation, population growth, and technology in growth theory.

Prerequisite: ECON 1950

ECON 2990 3 or 6 credits

*****Selected Topics in Economics (3,1,0) or (6,2,0)**

The subject matter in this course varies from semester to semester depending upon the interests of faculty and students. Courses are taught by visiting professors to instill their unique perspectives or by regular faculty to address emerging topics in a discipline, share research or teaching interests, or test potential new courses.

Prerequisite: Permission of the Program Advisor

ECON 3040 3 credits

Managerial Economics (3,0,0)

Students focus on the application of economic models and rational choice to business decision making. Topics include an introduction to managerial economics, demand analysis and estimates, production and cost analysis, technological change and industrial innovation, pricing strategies in imperfectly competitive markets, game theory and competitive strategies, government and business, and forecasting.

Prerequisite: ECON 1900; ECON 1950; MATH 1170 or equivalent

Note: Students cannot receive credit for both BUEC 2040, BUEC 2041, ECON 3041 and ECON 3040

ECON 3090 3 credits

Managing Personal Economic Wealth (3,0,0)

Students learn to attain their financial goals and achieve financial independence through effective planning. Topics include an overview of a financial plan; planning with personal financial statements; the effects of taxation on financial decision making; banking services; assessing, managing, and securing credit; personal loans; leasing versus buying; buying and financing a home; portfolio management basics; investing in stocks, bonds, and mutual funds; and retirement planning.

Note: Credit for this course cannot be applied towards the BBA. Students cannot receive credit for both BBUS 4140 and FNCE 4140

ECON 3100 3 credits

Canadian Financial Markets (3,0,0)

Students are introduced to money, banking, and the Canadian financial system. Topics include an overview of financial markets, interest rates and the structure of interest rates, the efficiency of financial markets, financial regulation, banks and other financial institutions, financial institutions risk management, the role of the central bank, the money supply, and monetary policy.

Prerequisite: ECON 1950

ECON 3200 3 credits

Introduction to Mathematical Economics (3,0,0)

Students examine the mathematical methods and tools most commonly used in analyzing economic problems. Topics include a review of set theory, functions, and limits; linear models and matrix algebra; application of single and multivariable calculus; unconstrained and constrained optimization; integration and difference and differential equations; application of dynamic analysis; and linear and non-linear programing.

Prerequisite: ECON 1900; ECON 1950; MATH 1170 or equivalent

ECON 3330 3 credits

Economics and Business Statistics 2 (3,0,0)

Building on ECON 2330: Economics and Business Statistics 1, students examine advanced statistical techniques and methods and their applications in business and economics. Topics include inferences about population variance, including hypothesis testing and confidence intervals; analysis of variance and experimental designs; simple and multiple regressions; time series analysis and forecasting; statistical quality control; and decision analysis. Students are required to apply statistical techniques using Excel and/or Minitab.

Prerequisite: ECON 1220 or ECON 1900 and ECON 1950; ECON 2320; MIST 2610

Exclusion: BUEC 2330, BUEC 3101, BUEC 3330, ECON 2330, ECON 2331, STAT 2410

ECON 3410 3 credits

Economics of Climate Change (3,0,0)

Students investigate the climatic changes resulting from global warming and the policy actions being taken to address these problems. Topics include an overview of the science and economics of climate change; the impact of climate change on growth and economic development; the economics of stabilization including efficiency, externalities, public goods, and environmental policy instruments; inter-temporal decisions and uncertainties about the impacts of climate change; the policy responses to mitigation and adaption and their cost; international collective action and its challenges; and prominent climate policy approaches, such as the United Nations Framework Convention and the Kyoto Protocol.

Prerequisite: ECON 1900

ECON 3500 3 credits

Public Finance (3,0,0)

Students examine the rationale for government intervention in a market economy, the assessment of public policy, and the impact of government expenditures and taxation on the economy and the citizenry. Topics include government activities, externalities, public goods, social security, fiscal deficits and public debt, principles of taxation, incidence and effects of taxation, and optimal taxation.

Prerequisite: ECON 1900; ECON 1950

ECON 3550 3 credits

International Economics (3,0,0)

Students analyze the movement of capital, goods, and services across international boundaries and assess their financial impact. With advances in transportation and communication, greater outsourcing, and increased globalization, trade, and foreign direct investment, the corresponding capital movements are becoming much more important to the global economy. Topics include the theories of absolute and comparative advantage; modern theories of trade, including factor-proportions; tariff and non-tariff barriers; current and capital accounts; exchange rate determination; balance of payments and exchange rate policy; evolution of the international monetary system; and trade and economic development.

Prerequisite: ECON 1900; ECON 1950

ECON 3600 3 credits

Labour Economics (3,0,0)

Students analyze how individuals, families, firms, and governments operate within a contemporary labour market, and the impact of labour market institutions and government policy. Topics include an overview of the labour market; labour demand and elasticities; the effect of quasi-fixed labour costs on demand; labour supply and the decision to work; labour supply and household production; compensating wage differentials and labour markets; education and training; worker mobility; pay and productivity; gender, race, and inequality in earnings; and unions and the labour market.

Prerequisite: ECON 1900

ECON 3610 3 credits

The Economics of Gender (3,0,0)

Students use economic theory and analysis in an attempt to explain why gender differences lead to different outcomes in education, career choices, family roles, and earnings. A comparison is made of the economic status of women relative to men throughout the world, with special emphasis on similarities and differences between Canada and other economically advanced nations. Topics include marriage and family; the economics of fertility; women at work; women's earnings, occupation, and education; the gender gap in earnings; women's employment and earnings; family policy; and women in developing countries.

Prerequisite: ECON 1900

ECON 3650 3 credits

Government and Business (3,0,0)

Students utilize neoclassical and institutional economic theory to examine government intervention in the economy. Topics include competition and economic efficiency; market failure; institutional theory; private sector governance structures; the role of the state; public sector governance structures, including competition policy, price and entry regulation, prevention of anti-competitive practices, and public enterprise and ownership; and government failure.

Prerequisite: ECON 1900; ECON 1950 or POLI 1110

Note: Students may not receive credit for both ECON 3650 and POLI 3650

ECON 3670 3 credits

Economic Analysis of Law (3,0,0)

Students explore and analyze legal issues from an economic perspective; economists focus primarily on whether particular legal doctrines, concepts, and processes are efficient. Topics include an introduction to the law, legal institutions, and procedures, as well as economic theory relating to property law, contracts, torts, criminal law, and general legal processes.

Prerequisite: ECON 1900

ECON 3690 3 credits

Community Economic Development (3,0,0)

Students investigate methods for effectively using local community resources to enhance economic opportunities while improving social conditions in a sustainable way. Topics include the theoretical basis for community economic development (CED), analytical techniques used to assess communities, environmental sustainability objectives for community development, competing strategies of community development, financing development strategies, and CED activity in Canada and other nations.

Prerequisite: ECON 1900; ECON 1950

ECON 3700 3 credits

Benefit-Cost Analysis and the Economics of Project Evaluation (3,0,0)

Students examine projects that are commonly evaluated using benefit-cost analysis, and the appropriate methods for determining their cost effectiveness. Topics include project evaluation techniques; measuring welfare change; correcting for market distortions using shadow wages and prices; finding the appropriate discount rate; making valid valuations that incorporate inflation and appropriate planning horizon, scrap, and spillover and secondary effects; public enterprise pricing rules; valuing intangibles; and incorporating risk and uncertainty. Case studies of projects are analyzed from a variety of areas, such as natural resources, the environment, human resources, public service, and transportation.

Prerequisite: ECON 1900

ECON 3710 3 credits

Environmental Economics (3,0,0)

Students apply the tools of microeconomic analysis to environmental issues. Topics include property rights and efficient resource use, market failure, the over-utilization of common pool resources, the Coase Theorem, non-market valuation techniques, government policies designed to cost-effectively control pollution, and real-world strategies for controlling pollution.

Prerequisite: ECON 1900

ECON 3730 3 credits

Forestry Economics (3,0,0)

Students are introduced to the concepts and analytical techniques used in forestry economics and their application to forest management, conservation, and policy analysis. Topics include techniques for analyzing forestry investments; timber demand, supply, and pricing; valuation of non-marketed goods and services, such as recreation and wildlife habitat; land allocation and multiple use; forest management issues, such as planting, thinning, and optimal age of crop rotation; and regulatory issues, including allowable annual cut regulations, property rights, tenure, and taxes.

Prerequisite: ECON 1900

ECON 3740 3 credits

Land Use Economics (3,0,0)

Students focus on land use issues with particular emphasis on government policies relating to the preservation and conservation of agricultural lands. Topics include rent theory; welfare measurement; property rights and externalities; project evaluation using cost-benefit and multiple accounts analysis; the economics of soil conservation; efficiency and equity in land use planning, including zoning changes; government land preservation and conservation policies, and agricultural subsidies; water use in agriculture; forest management; and multiple uses of public lands.

Prerequisite: ECON 1900

ECON 3840 3 credits

Economic Analysis of Health (3,0,0)

Students apply microeconomic tools to an analysis of the health care system, while being introduced to the major issues in health economics and the ongoing debate over health care policy. Topics include the economic determinants of health, the market for medical care, the market for health insurance, the role of the government in health care, and health care reform.

Prerequisite: ECON 1900

ECON 3900 3 credits

Intermediate Microeconomics 2 (3,0,0)

Students continue to study intermediate topics in partial and general equilibrium analysis. Topics include consumer choice under different scenarios, factor markets, game theory, imperfect competition,

general equilibrium analysis and welfare economics, public goods, and externalities.

Prerequisite: ECON 2900; MATH 1170 or equivalent

ECON 3950 3 credits

Intermediate Macroeconomics 2 (3,0,0)

Students continue to study short-run macroeconomic theory and its applications to contemporary policy issues. Topics include an overview of macroeconomics; macroeconomic data; the open economy; economic fluctuations; aggregate demand, including investment savings-liquidity preference money supply (IS-LM) curves; aggregate supply, including the Phillips curve; economic stabilization and the effectiveness of fiscal and monetary policy; and money supply and demand.

Prerequisite: ECON 2950

ECON 3990 6 credits

*****Selected Topics in Economics (3,0,0) or (6,0,0)**

The subject matter in this course varies from semester to semester depending upon the interests of faculty and students. Courses are taught by visiting professors to instill their unique perspectives or by regular faculty to address emerging topics in a discipline, share research or teaching interests, or test potential new courses. The added variety in the curriculum greatly enhances the student learning experience.

Prerequisite: Permission of the program advisor

ECON 4100 3 credits

International Financial Markets (3,0,0)

Students examine international financial markets and institutions and their critical role in the global economy. Topics include the elements that constitute a global financial institution; types of financial institutions and markets; global market structure differences; recent market failures, their causes, and solutions; and global financial regulation and reform.

Prerequisite: ECON 3100 or BBUS 3150

ECON 4320 3 credits

Econometrics (3,0,0)

Students are introduced to econometric models and the application of classical regression techniques to estimate socio-economic relationships. Topics include an introduction to econometrics; simple linear regression; interval estimation and hypothesis testing; predictions, goodness of fit, and modeling issues; multiple regression; non-linear relationships; heteroscedasticity; dynamic models, autocorrelation, and forecasting; simultaneous equations; and qualitative dependent variables. General econometric computer software is used to reinforce course concepts.

Prerequisite: ECON 2330 or ECON 3330 or equivalent

ECON 4330 3 credits

Forecasting in Business and Economics (3,0,0)

Students apply a variety of forecasting methods to solve problems in business and economics. Topics include qualitative forecasting methods; the forecasting process, data considerations, and model selection; moving averages and exponential smoothing; multiple regression and time series decomposition; Box-Jenkins methodology to fit autoregressive conditional heteroscedasticity (ARCH); time-varying volatility and autoregressive integrated moving average (ARIMA) and vector autoregressive models; combining forecasting results; and implementing forecasting.

Prerequisite: ECON 2330 or ECON 3330 or equivalent

Exclusion: BUEC 4330

ECON 4560 3 credits

International Macroeconomics and Finance (3,0,0)

Students explore the determination of exchange rates in an open economy and policies that governments may adopt to influence their movement. Topics include balance of payments; foreign exchange markets; interaction of the money, interest rates and exchange rates; exchange rates in the long run, including purchasing power and interest rate parity; exchange rates in the short run; fixed exchange rates and foreign exchange intervention; history of the international monetary system; macroeconomic policy under floating exchange rates; and performance of global capital markets and policy issues.

Prerequisite: ECON 2330 or ECON 3330 or equivalent; ECON 2950

ECON 4660 3 credits

Industrial Organization (3,0,0)

Students examine the performance and operation of imperfectly competitive markets, as well as the behavior of firms in these markets. They attempt to answer big questions, such as why are firms and markets organized the way they are; how does the behavior of firms affect the structure and performance of markets; and how does the organization of markets determine how firms behave and how markets perform. Topics include theories of the firm; market structure models; strategic interaction among firms; business practices such as mergers and acquisitions, price discrimination, advertising, innovation, vertical restraints, and cartels; and new developments in industrial organization, including network issues and auction markets.

Prerequisite: ECON 2900 or ECON 3040

ECON 4720 3 credits

Sustainable Economic Development (3,0,0)

Students examine theories and issues, internal and external challenges, and alternative policy options relating to sustainable economic development. Topics include a comparative analysis of the leading theories of economic growth, development, and sustainability; lack of economic growth, poverty, and income distribution; consequences of population growth and technological change; employment and migration, human capital, agriculture, and rural development; international trade and commercial policy, foreign investment, and aid; and global integration, economic transition, and environmental degradation.

Prerequisite: ECON 2950

ECON 4960 6 credits

Directed Studies in Economics (0,3,0) or (0,3,0)(0,3,0)

Individuals or groups of students engage in independent study, research, or practice related to a topic in economics under faculty supervision. The supervisor(s) determines the appropriate curriculum, evaluation methods, and credit assignment in consultation with the student(s) and subject to the approval of the department chairperson(s) and dean.

Prerequisite: Permission of the program advisor

ECON 4990 6 credits

*****Selected Topics in Economics (3,0,0) or (6,0,0)**

The subject matter in this course varies from semester to semester depending upon the interests of faculty and students. Courses are taught by visiting professors to instill their unique perspectives or by regular faculty to address emerging topics in a discipline, share research or teaching interests, or test potential new courses. The added variety in the curriculum greatly enhances the student learning experience.

Prerequisite: Permission of the program advisor

ECON 6010 3 credits

Principles of Environmental and Natural Resource Economics (3,0,0)

Students are introduced to normative economics and receive a board overview of different approaches to economic analysis of the environment and resources. Environmental, ecological and resource problems are discussed and economic solutions are identified, analyzed and critiqued. Topics include an introduction to economic efficiency; externalities, common resources and public good provision issues; the theory of non-renewable natural resources; cost-benefit analysis; ecological economics and green accounting; and the economics of climate change.

Prerequisite: Admission to MEEM or MScEEM or approval of degree committee

ECON 6020 3 credits

Applied Microeconomics for Sustainable Management (3,0,0)

Students examine more advanced microeconomic tools and apply these to economic sustainable management. Topics include market analysis for economic sustainability, demand analysis and estimation, the role of elasticities in sustainable management; consumer behavior and rationale choice; risk behavior and assessment; production efficiency; cost analysis and estimation; the role of the market structure for sustainable management; game theory and strategic behavior; and asymmetric information problems.

Prerequisite: Admission to MEEM or MScEEM or approval of degree committee

ECON 6030 3 credits

Foundations of Cost-Benefit Analysis (3,0,0)

Students are introduced to the principles and practice of cost-benefit analysis and how it is applied to evaluating public policies and specific projects. Topics include the conceptual and economic foundations of cost-benefit analysis; valuing benefits and costs in primary and secondary markets; discounting benefits and costs; evaluation criteria; incorporating uncertainty and risk; the role of option price and value; existence value of projects; social discount rate; and predicting and monetizing impacts. Applications relate to such areas as human resource, natural resource, recreation economics plus economic development and urban planning.

Prerequisite: Admission to the MEEM or MScEEM or approval of degree committee

ECON 6040 3 credits

Valuation Methods for Cost-Benefit Analysis (3,0,0)

Building on Foundations of Cost-Benefit Analysis, students explore advanced techniques of valuing impacts and contingent valuation methods for

investment projects. Valuation methods will be conducted using experiments, quasi-experiments, direct estimation and other indirect market methods. Other topics include contingent valuation, hedonic pricing method, shadow prices, econometrics of contingent valuation, cost-effectiveness analysis, distributional weighted cost-benefit analysis, and hypothesis testing in contingent valuation surveys. A critique of the valuation approaches for non-market goods and services from a philosophical perspective will be addressed.

Prerequisite: ECON 6010, ECON 6020 and ECON 6030 or equivalent

ECON 6050 3 credits

Sustainable Community Economic Development (3,0,0)

Students learn about the sustainable development of urban and rural communities with an emphasis on critical evaluation of the theory and strategies and application of analytical techniques. Topics include the theoretical basis for community economic development (CED); a critical analysis of theories explaining CED; analytical techniques for community evaluation; economic impact analysis; an assessment of environmental and economic sustainability objectives for project selection; third sector structures; competing strategies for community development; financial strategies and challenges; the role of the public sector in CED; and an overview of CED activity in Canada and other nations.

Prerequisite: Admission to MEEM or MScEEM or approval of degree committee

ECON 6060 3 credits

Applications of Environmental and Natural Resource Economics (3,0,0)

Students apply the principles of sustainable economic management to environmental and resource issues. Topics include population and the environment; agriculture and food; scarcity and abundance of resources; energy sector; renewable resource using in the fisheries and the forestry sector; water economics; pollution, impacts and policy responses; industrial ecology; trade and development and the environment; and institutions for sustainable development.

Prerequisite: ECON 6010 and ECON 6020 or equivalent

ECON 6070 3 credits

Sustainable Macroeconomic Development (3,0,0)

Students explore the macroeconomic theories and issues, internal and external challenges, and alternative policy options for sustainable economic development. Topics include a comparative analysis of the leading theories of economic growth, development and sustainability; lack of economic growth, poverty and income distribution; consequences of population growth and technological change; employment and migration, human capital, agriculture and rural development, international trade and commercial policy, foreign investment and aid; and global integration, economic transition and environmental degradation.

Prerequisite: Admission to MEEM or MScEEM or approval of degree committee

ECON 6080 3 credits

Policy and Regulation for Sustainable Management (3,0,0)

Students explore the role of government policy in the regulation of the environment and sustainability. Topics include criteria for evaluating environmental policies; decentralized policies including liability laws and property rights; control and command policies; emission taxes and subsidies; transferable discharge permits; compliance costs, uncertainty, and information; federal and provincial environmental policy in Canada; air, land and water pollution control policies; policy on toxic and hazardous substances; local environmental issues; global environmental issues and policies.

Prerequisite: ECON 6060 or equivalent

ECON 6910 3 credits

Selected Topics in Evironmental Economics and Management (3,0,0)

Students will focus on specific topics within the field of economic sustainable management not covered by regularly scheduled, required courses in the program. Course content will vary depending on the interests of faculty and students.

Prerequisite: Approval of the degree committee

ECON 6920 3 credits

Directed Studies in Environmental Economics and Management (3,0,0)

Students will work individually or in a small group to engage in independent study, research, or practice relating to a topic in economics sustainable management, under faculty supervision. Students work independently, meeting with the supervisor on a regular basis.

Prerequisite: Approval of the degree committee

EDAR 4200 6 credits

Teacher Action Research (3,0,0) (3,0,0)

From class lectures and discussions over two semesters, teacher candidates have the opportunity to develop and conduct a small research project in an area of interest that they develop on practicum through consultation with their instructor, faculty mentor, teacher mentor and principal. Findings from teacher candidates' action research studies are presented at a public poster presentation at the end of the program.

Prerequisite: Admission to Bachelor of Education (Secondary) program.

EDCO 3100 2 credits

Communications 1 (2,0,0)

This course is designed to provide teacher candidates with an opportunity to develop skills for effective communication with students, parents, colleagues, and other school-related persons. This course includes instructional time at McQueen Lake, the environmental education centre operated by the Kamloops/Thompson School district. Teacher candidates learn effective communication skills, including an introduction to conflict resolution and teaching social skills, through role-playing and discussion. Science exploration (such as Project Wild group activities) and physical activity (such as nature walks) are integral parts of learning about effective communication.

Prerequisite: Admission to a TRU Bachelor of Education program.

EDCO 4200 1 credits

Communications 2 (1,0,0)

This course acts as a capstone to the B.Ed. program by providing an opportunity for students to share their knowledge, skills, and understandings in theory and practice developed over the 2- year B.Ed. program. Students will also learn how to prepare resumes and portfolios for teaching position applications.

Prerequisite: Successful completion of all Year 1 and Fall Semester, Year 2 courses

EDCP 0300 3 credits

Education and Career Preparation (5,0,0)

Education and Career Planning 0300 is an ABE Fundamentals course focusing on preparing adult learners with the life and employment skills required for successful employment. The students will be prepared to pursue various occupational and educational goals and to make effective decisions about their long and short term goals. There are eight diverse components to this program. They include communications skills, career exploration skills, study skills and time management, interpersonal skills and cooperation, personal skills, living skills, job preparation, and setting an educational plan. Students will participate in a series of experiential modules.

EDCP 0400 4 credits

Education and Career Preparation (6,0,0)

Education and Career Preparation 0400 is an ABE Intermediate course focusing on preparing adult learners with the life and employment skills required for successful employment. The students will be prepared to pursue various occupational and educational goals and to make effective decisions about their long and short term goals. There are eight diverse components to this program. They include communications skills, career exploration skills, study skills and time management, interpersonal skills and cooperation, personal skills, living skills, job preparation, and setting an educational plan. Students will participate in a series of experiential modules.

Note: This course is taught by the University and Employment Preparation

EDCP 1020 1 credits

Occupational Work Experience (1,0,0)

This one credit career exploration course is designed to enhance students' understanding of their personal career goals and develop a plan for achieving them. In the classroom and through work experience, students will investigate essential employability skills required for that career and the relationship of those skills to the educational choices they have made. Integration of course work, occupational history, work experience and employability skills will be emphasized.

Prerequisite: One of the following: 73% on the combined English 12 and Government exam (within the last 5 years), or Level 4 on the composition section of the Language Proficiency Index (within the last 2 years), or completion of ENGL 0600, or completion of ESAL 0420 and ESAL 0580 (with a C+ or better).

Note: This course is part of Foundations for Success.

EDCP 2030 1 credits

Career Success Strategies (1,0,0)

This one credit course provides a detailed introduction to career success strategies and provides opportunities for students to apply these to their individual career development planning.

Prerequisite: One of the following: 73% on the combined English 12 and Government exam (within the last 5 years), or Level 4 on the composition section of the Language Proficiency Index (within the last 2 years), or completion of ENGL 0600, or completion of ESAL 0420 and ESAL 0580 (with a C+ or better).

Note: This course is part of Foundations for Success

EDCP 3030 1 credits

Graduate Job Search Skills (1,0,0)

This one credit course is designed to support and provide graduating students a broad understanding of Employability Skills and Career Search Strategies. EDCP 3030 will teach these students the fundamentals of developing and utilizing the tools needed to make the transition from an academic environment to the current workforce.

Prerequisite: 3rd year standing or approval from the instructor

Note: This course is part of Foundations for Success.

EDCS 1540 3 credits

Interpersonal Communications and Helping Relationships (3,0,0)

Self awareness is a foundation for the development of competent education assistant and community support workers. By focussing on personal development, students learn and use interpersonal communication skills effectively, while knowledge and skills are introduced that increase effectiveness in helping relationships with client populations. Topics include group dynamics, assertive behaviour, and conflict management.

Prerequisite: Admission to the Education Assistant and Community Support program

EDCS 1580 3 credits

Introduction to Human Service Professional Practice (3,0,0)

Students are introduced to professional human service practice. Topics include professional values, ethics, conduct, and strategies for self care. Specific to the field of education assistant and community support, students learn about their professional roles in school and community environments.

Prerequisite: Admission to the Education Assistant and Community Support program

Note: Students cannot receive credit for more than one of HUMS 1580, HUMS 1581 or EDCS 1580

EDCS 1590 3 credits

Practical Skills for Community and School Support Workers (3,0,0)

Education Assistant and Community Support students are introduced to the practical aspects of supporting individuals with disabilities in classroom, community, and home settings. Students participate in three learning modules during the semester that examine a variety of health care, educational, and social supports, and which vary according to local need. This course is designed to provide instruction for students working in small community and rural settings. Students must complete two of their three modules in Augmentative Communication 1 and Basic Health Care 1.

Prerequisite: Admission to the Education Assistant and Community Support program

Note: Students cannot receive credit for both EDCS 1590 and HUMS 1590

EDCS 1640 3 credits

Foundations of Education Assistant and Community Support Work (3,0,0)

Students are introduced to the theory and perspectives related to supporting individuals with exceptionalities and their families. Students learn about historical movements, inclusive practices, and strategies for teaching. Specific exceptionalities, their characteristics, and etiology are also discussed.

Prerequisite: Admission to the Education Assistant and Community Support program

Exclusion: HUMS 1640

EDCS 1650 3 credits

Understanding Behaviour: Learning for Independence (3,0,0)

This course introduces students to nonaversive intervention strategies for dealing with problem behaviour. Students will learn the role of team approach, individual program planning and ethics in the development of a behaviour support plan. An educative approach to behaviour change is emphasized.

Prerequisite: All Fall semester courses. Admission to the Education Assistant and Community Support program.

Required Seminar: EDCS 1650S

Note: Students cannot receive credit for both EDCS 1650 and HUMS 1650

EDCS 1660 3 credits

Health Care Principles (3,0,1)

This course overviews the theory and application of preventive health care planning and personal care principles. Areas of study include body mechanics, basic anatomy and physiology of body systems, nutrition, recognition of illness, referral procedures to health care services and issues related to basic pharmacology. Ethical and legal concepts of human service work in relation to health care practice will be discussed.

Prerequisite: Admission to the Education Assistant and Community Support program

Required Lab: EDCS 1660L

Note: Students cannot receive credit for both EDCS1660 and HUMS 1660

EDCS 1680 4 credits

Field Work (0,2,14P)

This course requires students to be in the field two days per week and to attend weekly two hour practicum seminars. At this time such topics as team work, time management, advocacy, sexuality and family support for individuals with challenges will be discussed, in addition to practicum related issues/concerns. There will be a two week block fieldwork experience at the end of this course.

Prerequisite: A student must receive a passing grade in EDCS 1580 or HUMS 1580 in order to move on to EDCS 1680

Note: Students cannot receive credit for more than one of CSSW 1650, HUMS 1600, HUMS 1601 or EDCS 1680

EDCS 1750 3 credits

Alternative and Augmentative Communication (3,0,0)

This course introduces students to a range of communication strategies used in working with children and adults who have limited or not verbal skills. Technological supports for communication will be introduced.

Prerequisite: All Fall semester courses. Admission to the Education Assistant and Community Support program.

Note: Students cannot receive credit for both EDCS 1750 and HUMS 1750

EDEF 3100 3 credits

History of Education (3,0,0)

This foundations course focuses on the complex dynamics between school and society. Teacher candidates examine the relationship between schools and society over time, gaining insight into individuals and groups that determine what kinds of schools should exist and what should happen to them. Issues of gender, race, sexuality, ethnicity, religion, social class, and location inform and enlighten investigations. Readings; lectures; presentations; discussion; group work; review of television, film, and video materials; and guest speakers inform the learning.

Prerequisites: Admission to TRU Bachelor of Education program

Note: Students cannot receive credit for both EDEF 3100 and EDTE 3180

EDEF 3200 3 credits

Theoretical Frameworks of Education (3,0,0)

This foundations course further develops the concepts explored in EDEF 3100: History of Education, encouraging teacher candidates to examine their educational beliefs and practices while deepening their insights and understanding of the social context of school. Teacher candidates learn the language and concepts of education, develop the ability to reflect critically on its central ideas and alternate frameworks, and refine their communication as professionals. Discussions of contemporary and educational issues include topics such as what it means to be a professional and schooling in the 21st century. Readings; lectures; presentations; discussion; group work; review of television, film, and video materials; and guest speakers inform the learning.

Prerequisites: Successful completion of Year 1, Term 1

Note: Students cannot receive credit for both EDEF 3200 and EDTE 3190

EDEF 4150 3 credits

Social Foundations of Educaton: Gender And Education (3,0,0)

This course is an exploration of the rethinking of educational practice and research that has been prompted by feminist theories, with a focus on schooling. Participants examine the gendered experiences of people in educational organizations as students, teachers, and administrators, and discuss differences by age, race and ethnicity, social class, religion, and sexual orientation. Prerequisites: 3rd- or 4th-year university standing and experience teaching children, or the permission of the instructor and the Bachelor of Education program coordinator

EDEF 4160 3 credits

Education in Rural or Small Schools and Communities in British Columbia (3,0,0)

Rural and small schools are a dominant feature in British Columbia's educational history, but they have generally been lost or forgotten in today's educational vision. Fifteen percent of the province's school children attend rural or small schools; many of these schools are so remote and isolated that there is no road access, and some of these schools have fewer than 10 students spread across many grades. This course examines rural and small schools in terms of the communities they serve, with particular attention to the teacher's role in the school and community.

Prerequisite: Successful completion of Year 1 in the Bachelor of Education program

EDEF 4200 1 credits

School Organization (1,0,0)

Teacher candidates examine a number of organizations that affect their working lives as teachers and develop a perspective about issues in British Columbia education that results in the expression of their own personal philosophy of teaching. Class sessions consist of presentations and lectures followed by a discussion or question and response period. Presentations are made by representatives from a number of stakeholder groups, including the Kamloops Thompson Teachers' Association, School District #73 (Kamloops/Thompson) senior administration, and the Teacher Regulation Branch for the British Columbia Ministry of Education. Teacher candidates are guided in the preparation of resumes and interview techniques.

Prerequisite: Successful completion of all Year 1 courses, Year 2, Term 1 courses and the EDPR 4200 Practicum

EDFN 4200 3 credits

Aboriginal Culture and Learning (3,0,0)

The course begins with an overview of the history of Aboriginal Education in British Columbia and Canada. The course focuses on effective teaching and learning practices for Aboriginal students including developing relationships with parents and extended family members. Teacher candidates examine how to enrich the regular school curriculum by adding Aboriginal content and including the cultural background of their Aboriginal students. The class format is presentation and discussion based on articles and videos provided by faculty, presentations from other Aboriginal educators, community members, and teacher candidates. Field experiences typically include visits to local band-operated schools, the Secwepemc Museum, the Kamloops Residential School and the Interior Indian Friendship Centre.

Prerequisite: Acceptance into the Bachelor of Education program or permission of the instructor

EDHC 4100 2 credits

Health and Career Education (2,0,0)

This course enables participants to help elementary students acquire the knowledge, skills, and attitudes that help them to make good personal decisions and manage their lives more effectively. Participants focus on the emotional and social development of students from Kindergarten to Grade 7.

Prerequisite: Successful completion of Year 1

EDHR 1210 3 credits

Human Resource Management and Performance

In today's demanding business climate, managers are having to utilize their human resources more effectively to gain competitive advant. This unit examines role of HRM in organizations, and the links between HRM and organizational performance. It is recommended as an intro to all other units in the HRM programs.

EDIE 3100 3 credits

Child Development and Teaching (3,0,0)

This course presents an overview of child development as it relates to teaching. It will begin with a survey of the main models and theories of child development and then consider relevant implications for teaching. Students will review research that examines child development and teaching, especially research that reviews effective teaching practice with children who are at different developmental levels, and children from diverse cultural backgrounds.

Prerequisite: Admission to the TRU Bachelor of Education program

Note: Students cannot receive credit for both : EDIE 3100 and EDPY 3100

EDIE 4100 3 credits

Special Education (3,0,0)

This special education course is designed to introduce students to the area of teaching children with special needs within the regular classroom. The course will begin with a consideration of the historical perspective on teaching children with special needs and will include information on relevant provincial legislation. Course topics include designing individual education plans and effective methods for teaching children with special needs in school settings.

Prerequisite: Successful completion of Year 1

Exclusion: EDPY 4100

EDIE 4150 3 credits

Inclusive Education: Specific Learning Disabilities (3,0,0)

This course introduces teacher candidates to the controversial field of specific learning disabilities. The course begins with a historical perspective on learning disabilities and an overview of relevant theoretical frameworks and models of learning disabilities. Participants examine current legislation in British Columbia and its relationship to the school district, school, and classroom levels. Two key topics include (1) screening, assessment, and identification practices, and (2) intervention strategies and how they affect classroom practice.

Prerequisite: Admission into the Bachelor of Education Program

Note: Students cannot receive credit for both EDIE 4150 and EDPY 4150

EDIT 4150 3 credits

Information Technology Across the Curriculum (3,0,0)

This course provides teachers with information about how to use 21st century technology across the curriculum. The skillful integration of 21st century technologies can enable more equitable learning opportunities for all. Digital technologies, access to information, globalization, and equity are changing the world. Participants learn how to critically evaluate the pedagogical benefits of various educational technology tools in the classroom setting.

EDIT 4700 3 credits

Introduction to Distributed Learning (3,0,0)

Participants explore the realm of distributed learning through discussion about learning theory and pedagogy in online environments, consider and apply technological tools to enhance the learning environment, and examine and design assessment strategies. This online seminar models the development of learning communities. Participants are directed to readings about current issues and discuss them online. This course is informally structured, and participants are encouraged to explore areas of their own interest that apply to their practice.

Prerequisite: Bachelor's degree and/or special permission from the School of Education

EDLL 3100 3 credits

Language and Literacy 1 (3,0,0)

This course introduces key concepts related to language and literacy learning and teaching in the elementary language arts classroom and across the curriculum. Students are provided an overview of the knowledge required to make sound curriculum decisions to implement an effective language and literacy program. This course is the first component of two interdependent courses that focus on methods to teach language and literacy in elementary school, with an emphasis on the reading process, the skills central to reading acquisition and reading achievement, individual differences in reading development, and effective reading instruction methods. The course is linked with the initial school practicum.

Prerequisite: Admission to the Bachelor of Education program

EDLL 3160 2 credits

Literacy Across the Content Areas (2,0,0)

Approaches for supporting secondary students in literacy are explored. Teacher candidates develop pedagogical approaches and strategies consistent with the nature of content literacy. Content literacy instruction is needed for students to meet the reading comprehension, academic vocabulary, critical thinking, and academic writing demands they face across the curriculum to effectively acquire and demonstrate knowledge and learning. This course teaches which communication competencies secondary school students need to succeed at school, work and daily life. Teacher candidates develop solid understanding of the cognitive, linguistic, and literacy demands of academic text and design lessons that promote comprehension and critical and innovative thinking across the curriculum.

Prerequisite: Degree in science or mathematics or equivalent

EDLL 3200 3 credits

Language and Literacy 2 (3,0,0)

This course continues the study of the elementary language arts curriculum and teaches the theory and practical knowledge required to implement a language arts program. The emphasis is on writing in relationship to the other language modes and across the curriculum. Students examine the skills children in elementary school need to be successful writers, effective ways of promoting the development of these skills, and effective writing assessment techniques.

Students are expected to engage in all aspects of the writing process.

Prerequisite: Successful completion of Year 1, Term 1

EDLL 3900 3 credits

Total Physical Response: Methods for Teaching Secwepmectsin (3,0,0)

The Total Physical Response (TPR) method is introduced as a method for teaching aboriginal languages. Research that analyzes the TPR method is studied in the context of current language theory in second language acquisition. Students have the opportunity to practice the TPR approach, learning instructional strategies and familiarizing themselves with learning resources. Effective classroom management, and evaluation and assessment are also examined.

EDLL 3910 3 credits

Introduction the Secwepemc Language 1 (3,0,0)

The purpose of this course is to introduce students to the Secwepemc language and to help them develop vocabulary, grammar, and oral sentence construction. The focus is on oral language production and comprehension. This course is appropriate for individuals who have little or no background in the Secwepemc language.

EDLL 3920 3 credits

Innovative Language Teaching Practices For Aboriginal Language Classrooms (3,0,0)

This course is designed for Aboriginal language teachers looking for ways to implement new teaching approaches in their classrooms. This course provides a brief survey of innovative language teaching methods and approaches that have been successfully used in a variety of Aboriginal language programs.

EDLL 4150 3 credits

Children's Literature (3,0,0)

Students are introduced to the sources of children's literature and its major genres, including traditional literature, fantasy, realistic and historical fiction, poetry, and information books. This course is geared towards teaching children; children's reading needs and interests, and current issues and trends are examined. Teacher candidates explore strategies for involving children with literature across the elementary curriculum.

Prerequisite: 3rd- or 4th-year university standing and experience teaching children, or the permission of the instructor and Bachelor of Education program coordinator

EDLL 4160 3 credits

Supporting Learners With Language and Literacy Difficulties (3,0,0)

Teacher candidates examine individualized assessment, diagnosis, and instructional planning for students with literacy difficulties.

Prerequisite: READ 3100; READ 3200; ENED 3200

EDMA 3100 3 credits

Mathematics 1 (3,0,0)

Teacher candidates develop a basic understanding of teaching mathematics in elementary schools. The course provides methods in teaching problem solving, numeracy, the use of manipulatives, early number sense, patterns, assessment, and operations with numbers. Participants also examine the use of literature and games in a math program and undergo a comprehensive study of the British Columbia mathematics curriculum. A variety of resources are provided to teacher candidates to experience the methods used to provide a rich elementary mathematics program.

Prerequisite: Admission to the Bachelor of Education program

EDMA 3200 3 credits

Mathematics 2 (3,0,0)

This course builds on EDMA 3100: Mathematics I. Students are introduced to topics that include place value, geometric thinking, spatial sense, measurement, statistics and probability, and assessment. The course is linked to the practicum (EDPR 3200) that teacher candidates take in the same semester to allow them to have an opportunity to apply the methods they have studied.

Prerequisite: Successful completion of Year 1, Term 1

EDMT 1340 3 credits

Organizational Design and Training

The term, reengineering - the name given to the mngt practice of fundamentally changing the organization & mngt of work - has attracted attention of many mgrs as a way of improving organizational performance. This unit examines how shifts towards horizontal work process from vertical impact on training & employee development

EDPE 3100 3 credits

Physical Education Methods (2,0,2)

The aim of this course is to provide a foundation of principles, learning opportunities and teaching, and critical thinking strategies in physical education that can be applied to whole classrooms of elementary students. Emphasis is on applying the various concepts of movement (games, dance, gymnastics, alternate-environment activities, and individual and dual activities) when planning to teach physical education. Teacher candidates participate in classroom, gymnasium, and outdoor activities that provide tangible links with scheduled practica and encourage putting theory into practice.

Prerequisite: Admission to the TRU Bachelor of Education program

EDPE 4150 3 credits

Elementary Physical Education: Instruction (2,1,0)

The purpose of this course is to provide an opportunity for teacher candidates, who have completed EDPE 3100, to extend the skills and knowledge gained through previous course work and during practica, and to further develop their ability to teach elementary physical education. Opportunities are also provided for teacher candidates to reinforce previous learning and to develop greater skill in teaching activities from the five movement categories.

Prerequisite: Knowledge of teaching methodology in Physical Education; basic knowledge of physical education, physical growth and development. 3rd or 4th year university students who have experience teaching children, or the permission of the instructor and Program Coordinator.

EDPR 1800 1 credits

First Nations Language Teaching Practicum 1 (32 hours)

This course provides students with an orientation to public and Band-operated schools, and the opportunity to link the theory-based courses of their first year Developmental Standard Term Certificate experience with language teaching experiences in the classroom. This course is the first of four organized language teaching practicum experiences.

Prerequisite: Completion of Semester 1, Year 1 of the DSTC program and enrollment in Semester 2, Year 1 of the program

EDPR 2800 2 credits

First Nations Language Teaching Practicum 2 (48 hours)

This course provides students with expanded opportunities to link the theory-based courses of their first and second years with further teaching experiences in the classroom. This course is the second of four organized language teaching practicum experiences.

Prerequisite: Successful completion of Year 2, Semester 1 of the DSTC program, including EDPR 1800

EDPR 3100 1 credits

Practicum 1 (24 hours)

This is the first of four organized school practica experiences, consisting of seven full days in schools within the Kamloops area. The purpose of this course is to provide teacher candidates with an orientation to elementary schools and the opportunity to link their on-campus courses with teaching experiences in the classroom. Teacher candidates are placed in pairs in classrooms where they have the opportunity to observe classroom procedures and teach four language arts lessons. Teacher candidates also complete journal reflections and have the opportunity to observe in a variety of school settings. Faculty mentors from the university support each teacher candidate throughout the practicum.

Prerequisite: Admission to the Bachelor of Education program. A criminal Record check is required for SD#73 (Kamloops/Thompson School District).

EDPR 3200 2 credits

Practicum 2 (60 hours)

This two-week (10 school days) practicum occurs in the final two weeks of Year 1, Term 2. Teacher candidates are placed in pairs in a school within the Kamloops area. The teaching and learning foci for this practicum are mathematics, science, and social studies, although not exclusively. Teacher candidates complete journal reflections and have the opportunity to observe in a variety of classroom settings. Following the practicum, teacher candidates attend two call-back days on campus, which include an opportunity to debrief the practicum, hear from guest presenters, and receive important information for the next practicum. Faculty mentors from the university support each teacher candidate throughout the practicum.

Prerequisite: Successful completion of Year 1, Term 1

EDPR 3800 2 credits

First Nations Language Teaching Practicum 3 (60 hours)

This course provides students with opportunities to observe classroom and school start-up procedures at the beginning of the school year. This course is the

third of four organized language teaching practicum experiences.

Prerequisite: Successful completion of Year 2 of the DSTC program, including EDPR 2800

EDPR 3900 3 credits

First Nations Language Teaching Practicum 4 (100 hours)

This course provides students with extended opportunities to expand, refine, and confirm their First Nations language teaching abilities. This course is the final and most important organized language teaching practicum experience.

Prerequisite: Successful completion of Year 3, Semester 1 of the DSTC program, including EDPR 3800

EDPR 4100 3 credits

Practicum 3 (90 hours)

At the beginning of Year 2, Term 3, teacher candidates undertake this three-week practicum, which serves as an orientation for teacher candidates and teacher mentors. Teacher candidates and mentors are paired for the 10-week extended EDPR 4200: Practicum 4 in Year 2, Term 4. Teacher candidates are involved in observational and instructional activities related to the September start-up of classrooms in elementary schools throughout interior school districts, including SD 27, SD 53, SD 58, SD 73, SD 74, and SD 83.

Prerequisite: Successful completion of Year 1

EDPR 4200 5 credits

Practicum 4 (300 hours)

During Term 2 of Year 2, teacher candidates undertake a 10-week (300 hour) practicum that serves as the major school experience. Teacher candidates normally return to the same placement as they had in EDPR 4100: Practicum 3. Teacher candidates gradually increase their teaching load and sustain a minimum 80% load for five consecutive weeks. Upon successful completion, teacher candidates are able to apply for teacher certification in British Columbia.

Prerequisite: Successful completion of all Year 1 and Year 2, Term 1

EDPR 4250 4 or 10 credits

Education Practicum

Students participate in a teaching practicum designed to meet the British Columbia College of Teachers (BCCT) requirements for certification to teach in British Columbia. (Specific practicum length is determined by BCCT).

Prerequisite: Qualifications required by BCCT and permission of the Bachelor of Education Program Chair

EDPY 3100 3 credits

Child Development and Teaching (3,0,0)

This course presents an overview of child development as it relates to teaching. It will begin with a survey of the main models and theories of child development and then consider relevant implications for teaching. Students will review research that examines child development and teaching, especially research that reviews effective teaching practice with children who are at different developmental levels, and children from diverse cultural backgrounds.

Prerequisite: Admission to the TRU Bachelor of Education program.

EDPY 4100 3 credits

Special Education (3,0,0)

This special education course is designed to introduce students to the area of teaching children with special needs within the regular classroom. The course will begin with a consideration of the historical perspective on teaching children with special needs and will include information on relevant provincial legislation. Course topics include designing individual education plans and effective methods for teaching children with special needs in school settings.

Prerequisite: Successful completion of Year 1.

EDPY 4150 3 credits

Special Education: Specific Learning Disabilities (3,0,0)

The purpose of this course is to introduce students to the controversial field of specific learning disabilities (LD). The course will begin with a historical perspective on learning disabilities and an overview of relevant theoretical frameworks and models of learning disabilities. We will examine current legislation in British Columbia and its relationship to the school district, school, and classroom levels. Two key topics will be (a) screening, assessment, and identification practices, and (b) intervention strategies and how they affect classroom practice.

Prerequisite: Successful completion of Year 1, or permission of the instructor and Chair of the department.

EDPY 4200 3 credits

Assistive Technologies in Special Education (3,0,0)

Students focus on the role that technology can play in compensating for, or remediating, learning challenges associated with cognitive impairments, communication disorders, and physical disabilities.

Prerequisite: A Bachelor of Education degree, a teaching certificate, or permission of the Department Chair.

EDPY 4210 3 credits

Assessment of Learning Difficulties (3,0,0)

Students examine the principles and practices of assessing children with learning difficulties. The emphases is on the assessment of literacy, mathematics, social and emotional behavior, and ability. Course discussions consider relevant interventions; however, the focus is on assessment. A variety of forms of assessment are considered, including standardized testing, criterion-referenced assessment, portfolio assessment, and dynamic assessment.

Prerequisite: A Bachelor of Education degree, a teaching certificate, or permission from the Department Chair

EDPY 4220 3 credits

Field Experience in Special Education (3,0,0)

Students gain experience in specific special education settings via rotation among district programs (District Developmental and Behaviour Programs, Chris Rose Centre for Autism, Child Development Centre), district specialists (a teacher of deaf and hard of hearing students, a teacher of the visually impaired students), and resource and learning assistance programs.

Prerequisite: Completion of a Certificate in Special Education

EDPY 4230 3 credits

Selected Topics in Special Education (3,0,0)

This course will be offered during the Spring or Summer session and the topic will vary depending on the expertise of the faculty available to teach the course.

Prerequisite: A B.Ed. degree, a teaching certificate, or permission from the Chair

EDPY 4300 3 credits

Adapting and Modifying Programs (3,0,0)

This course introduces students to strategies for adapting and modifying educational programs for children with special needs. Topics include determining if children need adapted or modified programs, and generating and revising individual education programs.

Prerequisite: A B.Ed. degree, a teaching certificate, or permission of the Chair.

EDPY 4310 3 credits

Learning Disabilities (3,0,0)

Students are provided an overview of teaching children with learning disabilities. Students experience methods and programs for teaching children with learning disabilities and learn about the legalities of special education.

Prerequisite: A Bachelor of Education degree, a teaching certificate, or permission of the Department Chair

EDPY 4320 3 credits

Behaviour Management for Children in Regular Classrooms (3,0,0)

The purpose of this course is to introduce students to instructional and environmental strategies for teaching children with behaviour problems in regular classrooms. Topics include methods to change behaviour in regular classroom settings, interviewing students, and working with families.

Prerequisite: A Bachelor of Education degree, a teaching certificate, or permission of the Department Chair

EDPY 4340 3 credits

Differentiation in Mathematics (3,0,0)

Students focus on teaching children with disabilities in mathematics. Course content includes assessing children with disabilities in mathematics, designing remedial mathematics programs, and reviewing research on effective teaching methods and programs.

Prerequisite: A Bachelor of Education degree, a teaching certificate, or permission of the Department Chair

EDPY 4360 3 credits

Programming for Children With Behaviour Disorders (3,0,0)

This special education course introduces students to the area of programming for children and adolescents with behaviour disorders.

Course topics include designing individual education plans and using effective methods for teaching children with behaviour disorders in school settings, especially resource rooms.

Prerequisite: A Bachelor of Education degree, a teaching certificate, or permission of the Department Chair

EDPY 4380 3 credits
Methodologies and Interventions for Beginning Reading and Writing (3,0,0)
The primary objective of the course is to prepare teachers to design and implement programs and interventions to teach children having difficulty with beginning reading and writing.

Prerequisite: A Bachelor of Education degree, a teaching certificate, or permission of the Department Chair

EDPY 4390 3 credits
Fluency and Reading Comprehension (3,0,0)
The primary objective of the course is to prepare teachers to design and implement programs to teach intermediate-aged children (Grades 4 to 7) who are having difficulty with fluency and reading comprehension. Students complete informal reading assessments in order to develop appropriate programming.

Prerequisite: A B.Ed. degree, a teaching certificate, or permission of the Inclusive & Special Education Program Coordinator.

EDPY 4400 3 credits
Methodologies and Interventions for Writing (3,0,0)
This course will prepare teachers to design and implement programs to teach children having difficulty with all aspects of writing including output, mechanics and meaning.

Prerequisite: A B.Ed. degree, a teaching certificate, or permission of the Inclusive and Special Education program coordinator

EDPY 4410 1 credits
Fetal Alcohol Spectrum Disorder (1,0,0)
Students are provided with an overview of teaching children with fetal alcohol spectrum disorder (FASD). Participants become familiar with methods and programs for teaching children with FASD and learn about federal and provincial initiatives.

Prerequisite: A Bachelor of Education degree, a teaching certificate, or permission of the Special Education program coordinator.

EDPY 4420 1 credits
Attention Deficity/Hyperactivity Disorder (1,0,0)
Students are provided with an overview of teaching children with Attention Deficit Hyperactivity Disorder (ADHD). Participants learn about assessment, teaching methods, and programs for teaching children with ADHD.

Prerequisite: A Bachelor of Education degree, a teaching certificate, or permission of the Special Education program coordinator.

EDPY 4430 1 credits
Structuring School Discipline (1,0,0)
This course is based on Control Theory and the Restitution program, focusing on developing a school discipline program which utilizes internal motivation and belief-based self-discipline. Using the Restitution program, participants learn to create school conditions which support student problem solving and self-regulation.

Prerequisite: A Bachelor of Education degree, a teaching certificate, or permission of the Special Education program coordinator.

EDPY 4440 1 credits
Autism Spectrum Disorder (1,0,0)
Students examine the principles and practices of working with children with Autism Spectrum Disorder (ASD). The key components of the course include early signs and diagnosis; characteristics of persons living with ASD, including myths about autism; discussions of the various treatment approaches and methods; and best practices for teachers working with children with ASD in their classrooms.

Prerequisite: A Bachelor of Education degree, a teaching certificate, or permission of the Special Education program coordinator.

EDPY 4450 1 credits
Leadership in Special Education (1,0,0)
This course is designed for individuals who are currently employed as Learning Assistance or Resource Room teachers. Students learn aspects of program and team management.

Prerequisite: A Bachelor of Education degree, a teaching certificate, or permission of the Inclusive and Special Education program coordinator

EDPY 4460 1 credits
Functional Behaviour Assessment (1,0,0)
This course provides training in the Functional Behaviour Assessment (FBA) process. Participants learn the theory of multi-modal behaviour analysis and the components necessary to conduct a complete FBA.

Prerequisite: A B.Ed. degree, a teaching certificate, or permission of the Inclusive & Special Education Program Coordinator.

EDPY 4470 3 credits
Universal Design for Differentiated Instruction (3,0,0)
This course introduces students to principles of universal design and differentiated instruction, as well as strategies for adjusting instruction to meet diverse learning needs. Participants learn the fundamentals of developing inclusive and individual instructional plans and monitoring procedures. Topics include adapting and modifying educational programs for children with special needs, response to instruction, and informal assessment.

Prerequisite: A B.Ed. degree, a teaching certificate, or permission of the Inclusive and Special Education program coordinator.

EDPY 4480 3 credits
Learning Disabilities in the General Education Classroom (3,0,0)
Students are provided with an overview of the field of learning disabilities and research-based instruction for the general education classroom. Participants develop skills in informal assessment and planning for children with learning disabilities.

Prerequisite: A B.Ed. degree, a teaching certificate, or permission of the Inclusive and Special Education program coordinator

EDPY 4500 1 or 3 credits
Directed Studies - Inclusive and Special Education (1,0,0) or (2,0,0) or (3,0,0)
This course will provide the opportunity for self-directed, mentored study in an area of special education. Students will examine, in-depth, a topic or issue of professional interest.

Prerequisite: Permission of the Coordinator

EDPY 4800 3 credits
Introduction to Special Education and Children with Learning Difficulties (3,0,0)
This course is designed to introduce teachers to the field of special education and for teachers who will work with children with special learning needs in special education settings. Students will become aware of informal assessment and data collection methods, plus Level "A" assessment tools, in order to develop basic remedial program plans.

Prerequisite: Admission into the TRU Special Education Diploma program, or permission of the Inclusive and Special Education Program Coordinator

EDPY 4810 3 credits
Advanced Assessment of Learning Difficulties (3,0,0)
The purpose of this course is to prepare students to administer and interpret assessments in educational settings. Students completing this course, and EDPY 4830, will acquire the assessment skills necessary for working within the special education field, such as in a learning assistance centre.

Prerequisite: Admission into the TRU Special Education Diploma program, or permission of the Inclusive and Special Education Program Coordinator

EDPY 4820 3 credits
Advanced Adaptations and Modifications (3,0,0)
This course provides specialist teachers with an advanced working knowledge of adaptations and modifications as they pertain to educational programs for students with special needs. Topics include current practices in adapting and modifying processes to determine changes necessary to a student's program and types of individualized education plans.

Prerequisite: the permission of the Inclusive and Special Education program coordinator

EDPY 4830 3 credits
Assessment and Learning Practicum (3,0,0)
This course is a continuation of EDPY 4810: Advanced Assessment of Learning Difficulties. Students apply their skills and knowledge while conducting an assessment on a school-aged child. Participants are expected to assess a child, interpret results with guidance, prepare a report, and share the report with parents and a school-based team. Students are expected to select an appropriate intervention and work with the child for a minimum of four sessions.

Prerequisite: permission of the Inclusive and Special Education program coordinator

EDPY 4840 3 credits
Programming for Children with Behaviour Disorders (3,0.0)
This special education course is designed to increase the competencies of students in the area of programming for children and adolescents with behaviour disorders. Students are prepared for a field placement in a resource room or alternate program that addresses the educational needs of children with behavioural difficulties. Course topics include assessing student needs, designing appropriate individual education plans, communicating with colleagues and parents, and using effective methods for teaching children with behaviour disorders in a variety of school settings.

Prerequisite: The permission of the Inclusive and Special Education program coordinator

EDSC 3200 3 credits

Science Methods (3,0,0)

This course is designed to introduce students to current principles and strategies applied to teaching science in elementary schools from Kindergarten to Grade 7. The three strands of the B.C. Science IRP, Life, Physical Earth, and Space Science, provide the base for exploring scientific content in terms of how children learn science. Weekly classes include hands-on labs, presentations, website explorations, article reviews, current events, and field trips. This course and its assignments are designed to give students the opportunity to explore the nature of science and learn how to teach science to children.

Prerequisite: Successful completion of Year 1, Term 1, or EDPR 3100, EDCO 3100, EDEF 3100, EDLL 3100, EDMA 3100, EDPE 3100 and EDPU 3100

EDSC 4150 3 credits

Environmental Education (2,1,0)

The purpose of this course is to examine aspects of environmental education appropriate for K - 7 students. Through the concept of Active Living and use of the outdoors as the principal classroom, the elements of living/lifestyles in all subject areas will be addressed. The course also emphasizes teaching students how to make informed decisions and take constructive actions regarding the earth and its inhabitants. Field trips involving activities suitable for elementary-aged students are an integral part of this course.

Prerequisite: Successful completion of Year 1, Fall and Winter Semesters, or permission of the instructor and Chair of the department. Introductory environmental science courses and basic knowledge of outdoor education (physical education or environmental science). 3rd or 4th year university students who have experience teaching children, or the permission of the instructor and Program Coordinator.

EDSC 4160 3 credits

Problem Solving in Science and Mathematics (3,0,0)

Science and mathematics learning is recognized as more than a collection of isolated skills and concepts to be mastered. Rather, science and mathematics promote experiences where students actively participate in the learning and doing of these subjects. Hence, problem solving is central to and permeates all aspects of science and mathematics. To become effective problem solvers and problem posers, children require experiences with various types of problems arising from a variety of real situations. A problem-posing framework will be used to explore ways in which teachers can provide opportunities to assist children to reason systematically and carefully, and to develop their understanding of science and mathematics.

Prerequisite: 3rd or 4th year university students who have experience teaching children or the permission of the instructor and program coordinator

EDSL 4200 2 credits

Second Language with Focus on French (2,0,0)

This course introduces the instructional and assessment strategies that are effective in promoting the learning of a second language by elementary students. It emphasizes the development of a proficiency-based curriculum and concurrent development of listening, speaking, reading, and writing skills. The course acquaints education teacher candidates with the teaching techniques, procedures, and instructional resources used to teach second languages to children, focusing on French. Teacher candidates interested in teaching other languages will be encouraged to adapt strategies to their own specific language and will learn to adapt assignments to their target language.

Prerequisite: Successful completion of Year 1 or permission of the instructor and program coordinator

EDSM 3100 3 credits

Introduction to STEM (Science, Technology, Engineering, Math) (3,0,0)

Approaches for supporting middle school and junior level secondary students' engagement and learning in mathematics and science are introduced. Teacher candidates develop pedagogical approaches and strategies consistent with constructivist philosophy and the nature of science and math. Teacher candidates design lesson and unit plans that build math or science inquiry skills; promote critical and innovative thinking; connect with authentic math, science and technology contexts; and, are consistent with British Columbia Ministry of Education curriculum. EDSM 3100 prepares teacher candidates for the first practicum EDTE 3410.

Prerequisite: Admission to the Bachelor of Education (Secondary) program

EDSM 4200 6 credits

STEM Specialty (Science, Technology, Engineering, Mathematics) (3,0,0)(3,0,0)

This course builds on EDSM 3100. Approaches for supporting senior secondary students' engagement and learning in a science specialty (biology, chemistry, physics) or a mathematics specialty are explored. Teacher candidates extend their application of pedagogical approaches and strategies consistent with constructivist philosophy and the nature of science or math for the senior secondary student. Teacher candidates design lesson and unit plans that build inquiry skills; promote critical and innovative thinking; connect with authentic science, math and technology contexts; and, are consistent with British Columbia Ministry of Education curriculum. The course prepares teacher candidates for the second two-week practicum (EDTE 3420) and the long practicum (EDTE 3430, 3440, 3450) where they teach in their specialty area.

Prerequisite: EDSM 3100

EDSO 3200 3 credits

Social Studies Methods (3,0,0)

The overarching purpose of this course is to introduce various rationales, goals, and strands needed to develop a coherent social studies program. Social Studies is presented as a dynamic, multi-disciplinary curriculum for creating informed, adaptable, responsive, and responsible educated citizens. Approaches and strategies are explored that focus on developing an understanding of the various Social Studies disciplines and the characteristics and evolution of the interrelated global systems, as well as promoting critical thinking, social responsibility, and a global perspective. EDSO 3200 is linked to the 2-week practicum that students take in the same semester (EDPR 3200), and so students will have the opportunity to teach several of the social studies lessons they will have developed.

Prerequisite: Successful completion of Year 1, Term 1. Prerequisite: Successful completion of Year 1, Term 1, or EDPR 3100, EDCO 3100, EDPY 3100, EDEF 3100, EDLL 3100, EDMA 3100 AND EDPE 3100

EDSO 4150 3 credits

Global Education (3,0,0)

This course explores, in theory and practice, how global education in schools can facilitate critical understanding and skills for building more peaceful futures in local, national, international, and global contexts. Students will critically examine six key issues of planetary crises: militarization, structural violence, human rights, cultural solidarity, environmental care, and personal peace. Strategies and pedagogies for global education will be explored.

Prerequisite: 3rd or 4th year university students who have experience teaching children, or the permission of the instructor and program coordinator

EDTE 3010 3 credits

Woodworking 1 (3,0,2)(L)

This course deals with basic woodworking theory, techniques and procedures; including safety, hand tool processes, power tool processes, and procedures involving stationary power equipment. The materials and fundamental techniques used in wood products manufacturing are introduced. Special emphasis is on the hands-on skills and safety procedures required to teach a course using power equipment. Students complete exercises, assignments and projects suitable to junior level secondary grades. Students with a directly related trade qualification are not permitted to take this course for credit.

Prerequisite: Acceptance into the B.Ed (Trades and Technology Education) Teacher Education program

Required Lab: EDTE 3010L

EDTE 3020 3 credits

Metalworking 1 (3,0,2)(L)

This course deals with basic metal working theory, techniques and procedures; including safety, hand tool processes, machine tool processes, materials, and fundamental processes used in metal related manufacturing. Students complete exercises, assignments and projects suitable to junior level secondary grades. Students with a directly related trade qualification are not permitted to take this course for credit.

Prerequisite: Acceptance into the B.Ed. (Trades and Technology Education) Teacher Education program

Required Lab: EDTE 3020L

EDTE 3030 3 credits

Power Mechanics 1 (3,0,2)(L)

This course deals with basic mechanical theory, techniques and procedures that are suitable to a power mechanics class at the secondary school level. Topics include safety, hand tools, maintenance, disassembly, reassembly and basic repairs. Students complete exercises, assignments and projects suitable to secondary level coursework. Students with a directly related trade qualification are not permitted to take this course for credit.

Prerequisite: Acceptance into the B.Ed. (Trades and Technology Education) Teacher Education program

Required Lab: EDTE 3030L

EDTE 3040 3 credits

Design and Drafting 1 (3,0,2)(L)

This course deals with the basics of drafting and design theory, techniques and procedures. Sketches, mechanical architectural and detail drawings will be explored. Students will move quickly from the fundamentals of manual paper and pencil based drawings to Computer Aided Design (CAD) technology. The generic fundamentals of CAD software will be emphasized with the intention that students will be able to use and teach any of the CAD software programs that may be owned by various secondary schools. Exercises, assignments and projects will be completed that are suitable to secondary level coursework. Students with directly related qualifications will not be allowed to take this course for credit.

Prerequisite: Acceptance into the B.Ed. (Trades and Technology Education) Teacher Education program

Required Lab: EDTE 3040L

EDTE 3050 3 credits

Electricity and Electronics 1 (3,0,2)(L)

This course deals with basic electrical and electronics theory, techniques and procedures. Topics include safety, hand tools and equipment, materials, and the fundamental processes used in wiring and circuitry. Students complete exercises, assignments and projects suitable to secondary level coursework. Students with directly related qualifications are not permitted to take this course for credit.

Prerequisite: Acceptance into the B.Ed. (Trades and Technology Education) Teacher Education program

Required Lab: EDTE 3050L

EDTE 3100 3 credits

Principles of Trades and Technology Education (3,0,0)

This course introduces students to the role of trades and technical education in the high school. The students' future role in carrying out the purposes and mission of Trades and Technology Education is explored. The course introduces the basic principles, methods and techniques of instruction suitable for secondary teaching. Learning theory and learning styles, lesson preparation, lesson types, instructional techniques, learning environments, and classroom management techniques are introduced. This course is designed to provide practical knowledge of instructional techniques that can be directly applied in the classroom. Emphasis is placed on actual practice ofinstructional skills.

Prerequisite: Acceptance into the B.Ed. (Trades and Technology Education) Teacher Education program

EDTE 3110 3 credits

Learning, Curriculum and Assessment (3,0,0)

This course emphasizes continuous improvement of teaching and learning through planning and feedback facilitated by the professional development process. Course topics include developing and implementing course outlines, identifying types of learning, determining appropriate instructional techniques and learning activities, determining and evaluating appropriate assessment and testing methods, and creating an effective learning environment.

Prerequisite: Admission into a B.Ed. Teacher Education Program

Required Seminar: EDTE 3110S

EDTE 3120 3 credits

Adolescent Learning and Development (3,0,0)

This course is intended to provide an understanding of adolescent learning and development. Modern theories in developmental, educational and cognitive psychology, as well as social and physical development will be explored. Emphasis will be on the theories that are relevant to adolescents in the school environment in order to help educators plan and implement appropriate lessons, activities, lectures, assignments, and teaching strategies.

Prerequisite: Admission into the B.Ed. Teacher Education Program

Note: Students cannot receive credit for more than one of EDIE 3100, EDPY 3100 or EDTE 3120

EDTE 3130 3 credits

Legal Issues in Secondary School (3,0,0)

Students are introduced to legal issues and current laws relating to education. Topics include past, current, and emerging legal issues; teacher and institutional liability; students' rights; and teachers' rights and responsibilities. Case studies from the education system will be examined. Special emphasis is placed on the issues relating to safely managing the learning environment and safe work practices.

Prerequisite: Admission into the B.Ed. Teacher Education Program

EDTE 3140 2 credits

Organizing and Managing Technology Learning Facilities (2,0,0)

This course provides instruction in the planning, organization, and management of several types of shop or mathematics and science related education facilities. The scope of this course encompasses the preparation for instruction in a shop or laboratory which includes a complete plan of organization, safety, and management showing the necessary equipment, materials, and supplies. Methods of purchasing, budgeting, financial control, inventory procedures, and problems related to a shop or laboratory learning environment management are included. Participants are introduced to software to organize and track equipment, materials, supplies, budgets and expenditures.

Prerequisite: Admission into the B.Ed. Teacher Education Program

EDTE 3150 3 credits

Diversity and Inclusive Education (3,0,0)

Teacher candidates develop awareness and best practice for the diversity of students in secondary schools, including cultural, ethnic, gender, sexual orientation, religion and socioeconomic diversity. Through discussion, teacher candidates reflect upon societal concerns including bullying, racism, homophobia, and sexism. Teacher candidates develop strategies aimed at creating inclusive and safe learning environments for all learners. Issues of particular concern for trades and technology and STEM learning environments are addressed.

Prerequisite: Admission into the B.Ed. Teacher Education Program

EDTE 3180 3 credits

History of Education (3,0,0)

The relationships between schools and society are complex and contradictory. Students examine the changing relationships between schools and society, this course will provide insights into individuals and groups that have determined both what kinds of schools should exist and what should happen in them. This course considers Indigenous perspectives and ways of knowing and the calls to action of the Truth and Reconciliation Commission. Lenses relevant to social justice issues including, cultural, ethnic, gender, sexual orientation, religion and socioeconomic diversity will be explored.

Prerequisite: Admission into the Bachelor of Education program

Exclusion: EDEF 3100, EDTE 3181

EDTE 3190 3 credits

Philosophy of Education (3,0,0)

This course introduces students to the comparative and critical study of the philosophical frameworks related to education and schooling (e.g. realism, pragmatism, behaviourism, existentialism) and their representative thinkers. This course is designed to help students examine the diverse educational views that have affected, and are affecting, schooling in Canada and British Columbia. Participants will reflect on their developing educational philosophy through readings, discussions and lectures.

Prerequisite: Admission into the Bachelor of Education program

Exclusion: EDEF

EDTE 3200 3 credits

Sociology of Education (3,0,0)

This course introduces students to the study of classroom, school, and schooling as social systems and the cultural function of educational institutions with particular emphasis on the secondary school. Concepts such as social organization, stratification, mobility, role, and values are applied. This course is designed to help students examine the impact of varying social perspectives on schooling in Canada and British Columbia.

EDTE 3410 2 credits

Practicum 1 (60 hours)

This is an introductory practicum experience in secondary schools. Students experience a variety of short-term teaching responsibilities with close guidance from a qualified and experienced technical education teacher in a classroom and shop setting or from a qualified and experienced teacher in the mathematics and/or science classroom. The teacher candidate may participate in different classrooms with different teachers. Students are placed in pairs for this practicum.

Prerequisite: Admission into the B.Ed. Teacher Education Program

Exclusion: EDPR 3100

EDTE 3420 2 credits

Practicum 2 (60 hours)

This practicum experience has an emphasis on teaching, and learning in teacher candidate's own area of technical/trade or mathematics/science expertise. Participants assume teaching responsibilities including planning, classroom management, evaluation and related activities while being closely supervised by a qualified and experienced technical or mathematics/science education teacher. Students are placed in pairs for this practicum.

Prerequisite: Successful completion of EDTE 3410 - Practicum 1 | Exlusion: EDPR 3200

EDTE 3430 2 credits
Practicum 3 (60 hours)
For trades and technical teacher candidates, the emphasis is on teaching outside of their individual trade area of expertise. For science and mathematics teacher candidates, the emphasis is on teaching in their area of expertise. Participants assume teaching responsibilities in secondary courses while being closely supervised by a qualified and experienced secondary education teacher. Students are placed individually for this practicum.

Prerequisite: Successful completion of EDTE 3420 - Practicum 2

EDTE 3440 3 credits
Practicum 4 (3,0,0)
For trades and technical teacher candidates, the emphasis is on teaching outside of their individual trade area of expertise. For science and mathematics teacher candidates, the emphasis is on teaching in their area of expertise. Participants assume teaching responsibilities in secondary courses while being closely supervised by a qualified and experienced secondary education teacher. Students are placed individually for this practicum.

Prerequisite: Successful completion of Practicum 3

EDTE 3450 3 credits
Practicum 5 (90 hours)
This practicum experience takes place in the winter semester. The emphasis is on working with the range of students and specific learning needs found within a secondary education environment. Participants assume teaching responsibilities, focusing on instructional and classroom management adaptations for the diverse needs of learners. Teacher candidates are closely supervised by a qualified and experienced secondary education teacher and are placed individually for this practicum. During this time, teacher candidates work with school staff, counsellors and other professionals who may be working with specific students.

Prerequisite: Successful completion of Practicum 3 and 4

EDTE 4010 3 credits
Woodworking 2 (3,0,2)(L)
This course adds to the woodworking knowledge and skills learned in EDTE 3010. In addition to the related safety, processes and procedures, instructional techniques suitable for teaching secondary school classes will also be included. Students will complete the exercises and projects both as a learner and also from the perspective of their future teaching role. Students with a directly related trade qualification will not be allowed to take this course for credit.

Prerequisite: EDTE 3010

Required Lab: EDTE 4010L

EDTE 4020 3 credits
Metalworking 2 (3,0,2)(L)
This course deals with basic metal working theory, techniques and procedures; including safety, hand tool processes, machine tool processes, materials, and fundamental processes used in metal related manufacturing. Exercises, assignments and projects will be completed that are suitable to junior level secondary grades. Students with a directly related trade qualification will not be allowed to take this course for credit.

Prerequisite: EDTE 3020 Required Lab: EDTE 4020L

EDTE 4030 3 credits
Power Mechanics 2 (3,0,2)(L)
This course deals with basic electrical and electronics theory, techniques and procedures. Topics include safety, hand tools and equipment, materials, and the fundamental processes used in wiring and circuitry. Exercises, assignments and projects will be completed that are suitable to secondary level coursework. Students with directly related qualifications will not be allowed to take this course for credit.

Prerequisite: EDTE 3030

Required Lab: EDTE 4030L

EDTE 4040 3 credits
Design and Drafting 2 (3,0,2)(L)
This course continues the development of drafting and design techniques, primarily by the use of Computer Aided Design (CAD) software. Students will practice fundamental skills and drawing standards for various industries. Additional technology will be introduced including 3D surface creation and solids modelling. Related graphics software will be explored. Emphasis will be on developing appropriate and interesting lessons and assignments that are suitable to secondary grades of 8 through 12. Students with directly related qualifications will not be allowed to take this course for credit.

Prerequisite: EDTE 3040

Required Lab: EDTE 4040L

EDTE 4050 3 credits
Electricity and Electronics 2 (3,0,2)(L)
This course adds to the knowledge and skills learned in EDTE 3050. In addition to the related safety, processes and procedures, instructional techniques suitable for teaching grade 8 to 10 secondary school classes are included. Students complete the exercises and projects both as a learner and from the perspective of their future teaching role.

Prerequisite: EDTE 3050

Required Lab: 4050L

EDTE 4110 4 credits
Professional Growth and Development (3,1,0)
This course is designed to allow students to analyse, synthesize and reflect on their experiences as students in this program. Students create a professional portfolio which documents their professional and personal growth as secondary education teachers. Through consideration of their experiences prior to enrolling and how they have grown throughout the program students create a professional development plan for their next year. This plan identifies strengths and areas for improvement in their preparation as a secondary education teacher. Job search techniques, beginning school year approaches, professional organizations, mentoring and the supervision of beginning teachers is included.

Prerequisite: Successful completion of EDTE 3450

Required Seminar: EDTE 4110S

EDTL 1510 3 credits
First Nations Language Teaching Methodology 1 (3,0,0)
This course will introduce students to the major language teaching methodologies. These methodologies will be examined through the use of structured observations, multimedia presentations and/or microteaching assignments.

Prerequisite: Completion of Semester 1, Year 1 of the DSTC program

EDTL 3100 3 credits
Teaching and Learning 1 (3,0,0)
This course will focus on preparing lesson plans for teaching small groups of children. The course will be integrated with the EDLL 3100 (Language and Literacy 1) and EDPR 3100 (Practicum 1), and this will allow for direct links between course topics and classroom practice. Students will have opportunities to implement teaching practices presented in EDTL 3100 with small groups of children as part of EDPR 3100, with the curriculum content being determined by the EDLL 3100 course. For example, students could prepare a lesson plan on teaching new vocabulary in a cooperative group format, teach the lesson in EDPR 3100, and then make effective revisions to their teaching based on this experience. The method to teach vocabulary would be generated in EDLL 3100, and planning the lesson (including preparing a lesson plan that includes teaching essential group social skills) would be covered in EDTL 3100.

Prerequisite: Admission to the TRU Bachelor of Education program.

EDTL 3200 3 credits
Teaching and Learning 2 (3,0,0)
This course will focus on preparing unit plans for teaching whole classrooms of children. The course will be integrated with the EDSC (Science), EDSO 3200 (Social Studies), EDMA 3200 (Mathematics 2), and EDPR 3200 (Practicum 2) courses. This will allow for direct links between course topics and classroom practice. Students will have opportunities to implement teacher practices presented in Teaching and Learning II with whole classrooms of children as part of EDPR 3200, with the curriculum content being determined by the EDSC 3200, EDMA 3200, and EDSO 3200 courses. For example, students could prepare a unit on ancient Egypt that includes cultural aspects of pyramids, perspective drawing of pyramids, and geometry. Students could teach more than one lesson in EDPR 3200 and then make effective revisions based on their reflections.

Prerequisite: Successful completion of Year 1, Term 1.

EDTL 4100 3 credits
Teaching and Learning 3 (3,0,0)
This course is intended to teach students to design collaborative units and to incorporate language and literacy components across curricular areas. Students will be introduced to the basic concepts of cross-curricular integration and they will demonstrate understanding of these concepts by developing integrated projects. These projects will form part of a unit to be designed and implemented in the final practicum EDPR 4200 in Year 2 Winter Semester.

Prerequisite: Successful completion of Year 1.

EDUC 4000 3 credits
Directed Studies in Education
This course will provide the opportunity for self-directed, mentored study in an area of elementary education. Students will examine, in-depth, a topic or issue of professional interest. Outcomes may include a project, research paper, literature review, or program evaluation.

Prerequisite: Permission of the Dean, Program Coordinator of the B.Ed. program, and the agreement of the supervising faculty member

EDUC 5000 3 credits

Learning about Learning (39 hours)

This course aims to support students exploring their own perspectives on learning as well as taking a look at contemporary theories of learning developed by academics in the education field. At the same time the course is designed to support students in becoming more effective advanced academic learners in the field of Education. Prerequisite: Undergraduate degree and GPA 3.0, IELTS 6.0

EDUC 5010 3 credits

Research Methods (3,0,0)

In Research Methods, students investigate a variety of methods for conducting quantitative and qualitative research relevant to the field of education. Students also become familiar with procedures for securing ethics committee approval for conducting research.

Prerequisite: Meets TRU MEd admission requirements

EDUC 5020 3 credits

Philosophy and History of Education (3,0,0)

What education is, what purposes it serves, and how it is structured is closely entwined with ideas of what a society is and how it functions. Students engage in an introduction to key educational philosophers and consider their impacts on the history of education.

Prerequisite: Meets TRU MEd admission requirements

Note: Students cannot receive credit for both EDUC 5020 and 5021

EDUC 5030 3 credits

Curriculum, Teaching and Learning (3,0,0)

This course will familiarize students with a variety of theoretical perspectives on curriculum design/development, implementation, and evaluation. Curriculum, teaching, and learning will be applied to a variety of educational contexts and situations.

Prerequisite: Admission to the TRU M.Ed. degree program

EDUC 5040 3 credits

Diversity: Constructing Social Realities (3,0,0)

This course examines the social construction of inequalities based on class, gender, race, and sexuality and the operation of these inequalities within educational institutions. The course surveys the influence of social inequalities on student experiences and student success within the educational system.

Prerequisite: Admission to the TRU M.Ed. degree program

EDUC 5060 3 credits

Directed Seminar (3,0,0)

Targeted to provide the opportunity for self-directed, mentored scholarship, this course focuses on advanced examination of topics that are of professional interest to the student.

Prerequisite: Admission to the TRU M.Ed. degree program

EDUC 5070 3 credits

Thesis Proposal (3,0,0)

Research design is integral to professional and scholarly inquiry. This course prepares students for post-graduate research through surveying a variety of designs, methods, and questions, and by exposing students to critical approaches to research design assessment.

Prerequisite: Admission to the TRU M.Ed. degree program

EDUC 5100 3 credits

Selected Topics in Exceptionalities: Foundations of Inclusive Education (3,0,0)

Students are introduced to theoretical frameworks and sociological perspectives regarding key designations of exceptionalities identified in the literature and in the Diagnostic and Statistics Manual 5. Students examine the differences and commonalities between categories of exceptionality including (but not limited to) developmental delay, cognitive, physical, genetic and phenomic exceptionalities, mental health and dual diagnoses. Students develop and demonstrate an understanding of related topics including: historical perspectives, government legislation, support structures, and the evolution of policy and practice.

Prerequisite: Admittance to the M.Ed. program (Inclusive and Special Education concentration)

EDUC 5110 3 credits

Mind, Brain, and Education: An Introduction to Educational Neuroscience (3,0,0)

Students investigate, at an introductory level, the emerging field of educational neuroscience. Theoretical frameworks about brain structures, functions, and brain plasticity are examined. The mind-body connection is presented in order to provide a theoretical and philosophical framework for the course. Prominent philosophical and ethical issues are explored in relation to educational neuroscience and its implications for learning and development. Of prime importance is the critical evaluation of neuroscientific research and its application to educational policy and practice. Students explore commercial products and programs common in educational settings, as well as the future use of computer â€“ brain interfaces.

Prerequisite: Admittance to the Master of Education Program

EDUC 5120 3 credits

Assessment of Exceptionalities: Theory and Practice (3,0,0)

Students examine theoretical foundations and research evidence that inform current methods and practices for the administration and interpretation of Level B assessments in educational and community settings. Students acquire the assessment skills necessary for working within special education contexts, such as schools, community living programs, or residential settings. Students critically analyze a variety of research-based programs and intervention strategies that can be utilized in developing programs/plans for child, youth, or adults with exceptionalities.

Prerequisites: Admittance to the M.Ed. program (Inclusive and Special Education concentration)

EDUC 5130 3 credits

Managing Multiple Systems: Policy and Practice (3,0,0)

Students are introduced to the theoretical and practical frameworks for developing professional communication, conflict resolution, and advocacy skills, which are necessary when working with families, government, community agencies and service providers. Legislation, administrative policy, theoretical frameworks of effective professional communication and effective practices are reviewed along with current and critical issues surrounding inclusive and special education.

Prerequisite: Admittance to the M.Ed. program (Inclusive and Special Education concentration)

EDUC 5140 3 credits

Literacy for Individuals with Exceptionalities: Theory, Research, and Practice (3,0,0)

Students examine the etiology, manifestation, prevention and remediation of literacy difficulties. Students critically analyze current theories and research on literacy difficulties for children, adolescents and adults and develop deep understanding of how literacy challenges affect life quality. The main focus is on identifying effective teaching strategies that educators and community professionals can implement to prevent, identify, and help individuals experiencing literacy challenges.

Prerequisite: Admittance to the M.Ed. program (Inclusive and Special Education concentration)

EDUC 5180 6 credits

Research Project (6,0,0)

As a culminating course for students in the project stream of the M.Ed., students will engage in a research project of study. Students will work one-on-one with their supervisor. A reflective paper summarizing the research project as well as a summative presentation of their project to a community of inquiry, including peer colleagues and instructors, will round out the course.

Prerequisite: As this is the culminating course in the project exit option for the M.Ed., all other courses in the M.Ed. must be completed.

EDUC 5210 3 credits

Educational Management (3,0,0)

This course will examine the management of fiscal and human resources that contribute to effective leadership in educational settings.

Prerequisite: Admission to the TRU Leadership Certificate program

EDUC 5220 3 credits

Cultural Diversity in Educational Leadership (3,0,0)

Targeted to provide the opportunity for collaboration with a number of entities within higher education and the public schools, this course focuses on issues associated with First Nations education and with educational issues around other ethnicities and diversities prevalent in British Columbia schools.

Prerequisite: Admission to the TRU Teacher Leadership Certificate program

EDUC 5230 6 credits

The Application of Educational Leadership (0,1,5)

Targeted to provide the opportunity for a mentored field experience, this course focuses on integrating the knowledge and skills from previous courses into a capstone experience. In collaboration with the mentoring school district, students will engage in applying educational leadership in an internship experience. A seminar component will be included.

Prerequisite: Admission to the TRU Teacher Leadership Certificate program

EDUC 5280 3 credits
Capstone Seminar (0,3,0)
This capstone course will provide students with the opportunity to write a major synthesis paper on their learning in the M.Ed. While the precise topic of the paper will be determined by the student in consulation with the thesis supervisor, the student will benefit from interaction with peers in this course. Topics covered will include models and examples of sythesis papers, peer review, and presentations. This course will include both face-to-face and on-line delivery.

Prerequisite: As this is the culminating course in the capstone course exit option for the M.Ed., all other courses in the M.Ed. must be completed

Note: Students cannot receive credit for both EDUC 5280 and EDUC 5281

EDUC 5400 3 credits
Principles and Processes of Educational Leadership (3,0,0)
This course is designed to examine the current theories and belief systems that contribute to evolving concepts of leadership, particularly leadership in educational settings. A variety of pedagogical approaches will be used to examine processes that develop relationships, encourage team building, facilitate conflict resolution, and encourage innovation, change and organizational performance. Participants will become familiar with various styles of leadership such as charismatic, transformational, transactional, and collegial, and will be encouraged to examine and challenge their own practices in field settings. Students will investigate current models of supervision and performance assessment and assess the models in the context of differing leadership styles. Participants will develop a repertoire of leadership styles and skills that will be applicable in a variety of educational settings.

Prerequisite: Admission to the TRU M.Ed. degree program

Note: Students cannot receive credit for more than one of EDUC 5050, EDUC 5401 or EDUC 5400

EDUC 5420 3 credits
Legal Issues in Education (3,0,0)
This course examines educational governance, policy and laws with an emphasis on their effects on students, teachers, administrators, and parents. Course themes include student and parent rights, labour law, child protection, collective bargaining, and the governance of schools in BC, Canada and internationally.

Prerequisite: Admission to the TRU M.Ed. program

Note: Students cannot receive credit for both EDUC 5420 and EDUC 5421

EDUC 5440 3 credits
Understanding and Managing Conflict (3,0,0)
Understanding and managing conflict is core to many educational roles, for example, teacher, principal, district leaders, counselors, and curriculum consultants. It also is central to leadership in other sectors such as health care, social services, the military, and more. This course will examine these topics: types and causes of conflict, cultural components of conflict, effects of conflict, conflict management, and conflict vis-a-vis organizational change.

Prerequisite: Admission to the TRU M.Ed. program

EDUC 5460 3 credits
Educational Management (3,0,0)
This course will examine the management of fiscal and human resources that contribute to effective leadership in educational settings.

Prerequisite: Meets the admission requirements to the TRU MEd program

Notes: Students cannot receive credit for both EDUC 5460 and EDUC 5461

EDUC 5500 3 credits
Introduction to Counselling Skills (3,0,0)
Students are provided an opportunity to explore the helping professions and the skills needed to communicate effectively with diverse populations.

Prerequisite: Admission to the TRU MEd program

Note: Students cannot receive credit for both EDUC 5500 and COUN 5500

EDUC 5510 3 credits
Theories in Counselling (3,0,0)
This course consists of a study of the major counselling approaches and a study of some of the issues faced by counsellors and by individuals who are considering becoming counsellors.

Prerequisite: Admission to the MEd program

Note: Students cannot receive credit for both EDUC 5510 and COUN 5510

EDUC 5520 3 credits
Assessment and Evaluation (3,0,0)
This course is a study of group and individual assessment used in elementary and secondary schools.

Prerequisite: Admission to the TRU MEd program

Note: Students cannot receive credit for both EDUC 5520 and EDUC 5521

EDUC 5550 3 credits
Introduction to Secondary School Counselling (3,0,0)
Students explore counselling as related to secondary school practice and focus on the secondary school counsellor's

role and functions.

Prerequisite: Admission to the TRU MEd program

EDUC 5560 3 credits
Career Counselling and Development (3,0,0)
This course is a study of career counselling development and theory. The theoretical emphasis is on the development aspects of career decision making from childhood through adulthood.

Prerequisite: Admission to the TRU MEd program

EDUC 5580 6 credits
Counselling Internship (0,1,5P)(0,1,5P)
Students are provided an opportunity for a mentored field experience. This course focuses on integrating the knowledge and skills from previous courses into a capstone experience. In collaboration with a mentoring school district, students are engaged in school counselling roles and responsibilities. A seminar component is included.

Prerequisite: Admission to the TRU MEd program and successful completion of EDUC 5500, 5510, 5520, and 5560

EDUC 5600 3 credits
Research Institute: Language, Culture and Community (3,0,0)
This course consists of academic study associated with full participation in the Education Research Colloquium or The Research Institute at TRU. This course helps students become familiar with and understand education research by providing ample opportunities for critical reading, listening, and discussion. It acquaints students with current educational research issues, facilitates the development of a graduate culture, and builds community among Education graduate students and faculty members. The colloquium/institute includes paper presentations based on research addressing a range of educational issues. In the participatory seminars, students practice their critical thinking skills by leading discussions on the research colloquium presentations. In the lectures, students learn how to interpret research reports and critically respond to them. The lectures also acquaint students with the academic discourse and sound theory and research.

Prerequisite: Meets admission requirements to the TRU GCES or MEd program.

EDUC 5990 3 credits
*****Special Topics in Education (3,0,0)**
Special topics courses are offered on a temporary basis and are not part of the regular course offerings. This course utilizes the special expertise of a faculty member or a visiting professor to go beyond the usual curriculum and enrich the program of study. Contact the program advisor for information on current offerings.

Prerequisite: Meets the admission requirements to the TRU M.Ed. program

Note: EDUC 5990 Special Topics in Education can be taken up to 4 times providing the course title includes a different topic each time

EDUC 5998 6 credits
Thesis (0,3,0)(0,3,0)
This course is one of the exit options for the culmination of the M.Ed. Program. Students conduct a research study, write a thesis and prepare and defend it in front of a thesis examination committee, in a public forum. Students complete this course independently, under the guidance of their supervisor(s) and thesis committee members.

Prerequisite: Admission to the M.Ed. program. EDUC 5010 or EDUC 5011, EDUC 5070

EDVP 4100 2 credits
Drama (2,0,0)
Teacher candidates are introduced to the theory and practice of drama in the elementary classroom. Participants focus on experiencing various drama forms and conventions, analyzing them as ways of learning, and applying them to specific curricular and classroom needs.

Prerequisite: EDPR 3200

EDVP 4110 2 credits
Music (2,0,0)
This is an introductory course in music education designed to give students a basis for teaching music in elementary classroom settings. The understanding of

musical concepts and the demonstration of skills will be fostered through singing, listening and appreciating, playing instruments, creative expression, and critical reading of the music education literature.

Prerequisite: EDPR 3200

EDVP 4120 2 credits

Visual Arts (2,0,0)

This course is designed to facilitate the fundamental experience and understanding of the role and value of art education, as well as to explore key issues in this domain. Lessons are concerned with basic concepts related to children's artistic production, perceiving and responding to art, and teacher planning for art instruction. Studio activities are interactive and meant to develop strategies and confidence for teacher candidates to deliver and introduce selected art materials, as well as to convey appropriate techniques to facilitate positive art learning for elementary-aged students.

Prerequisite: EDPR 3200

EDVP 4150 3 credits

Music Curriculum and Instruction: Elementary (3,0,0)

This course includes theoretical and practical components designed to develop skills, concepts, and attitudes in music education. In addition to extending theory and practice applications for the classroom, students focus on composition and creativity.

Prerequisite: 3rd or 4th year university students who have experience teaching children or the permission of the instructor and program coordinator. Some experience with music is desirable.

EDVP 4160 3 credits

The Arts and Media Literacy (3,0,0)

Critical engagement with various media teaches us how to 'read the world'; from these interactions, we construct the texts with which we explore and communicate our own identity. Students explore the multiple ways in which the artistic languages of visual art, music, drama, and written words represent and communicate meaning-making, literacy, and personal expression within school and broader life contexts.

Prerequisite: 3rd or 4th year university students who have experience teaching children or the permission of the instructor and program coordinator

EDVP 4170 3 credits

Music As Language, Language As Music: Intertextual Dialogues (3,0,0)

This interdisciplinary course looks at the languages of words, music, gesture and image as vehicles for artistic expression, social commentary and cultural communication.

Prerequisite: There are no music prerequisites. Arts students must have attained third year standing; Education students must be in the second year of the B.Ed. program.

EENG 3010 3 credits

Introduction to Control Systems (3,2,0)

Students learn fundamental concepts of control system. Students are introduced to the concepts of impulse response functions, transfer functions, system input-output and convolution. Students explore Root locus analysis and design method, Feedback and stability, Nyquist stability criterion, frequency domain design and analysis, PID control systems.

Prerequisite: MATH 2240 with a minimum grade of C

ELEI 2000

Industrial Electrician Apprentice Level 1

Industrial Electrical Level 1 Apprenticeship Theory for the Industry Electrician Apprenticeship Program. Industrial electricians typically install, test, troubleshoot and repair industrial electrical equipment and associated electrical and electronic controls. They are employed by electrical contractors and maintenance departments of factories, plants, mines, shipyards and other industrial establishments.

Prerequisite: Registered Industrial Electrician Apprentices with the Industry Training Authority

ELEI 3000

Industrial Electrician Apprentice Level 2

Industrial Electrical Level 2 Apprenticeship Theory for the Industry Electrician Apprenticeship Program. Industrial electricians typically install, test, troubleshoot and repair industrial electrical equipment and associated electrical and electronic controls. They are employed by electrical contractors and maintenance departments of factories, plants, mines, shipyards and other industrial establishments.

Prerequisite: Registered Industrial Electrician Apprentices with the Industry Training Authority

ELEI 4000

Industrial Electrician Apprentice Level 3

Industrial Electrical Level 3 Apprenticeship Theory for the Industry Electrician Apprenticeship Program. Industrial electricians typically install, test, troubleshoot and repair industrial electrical equipment and associated electrical and electronic controls. They are employed by electrical contractors and maintenance departments of factories, plants, mines, shipyards and other industrial establishments.

Prerequisite: Registered Industrial Electrician Apprentices with the Industry Training Authority

ELEI 5000

Industrial Electrician Apprentice Level 4

Industrial Electrical Level 4 Apprenticeship Theory for the Industry Electrician Apprenticeship Program. Industrial electricians typically install, test, troubleshoot and repair industrial electrical equipment and associated electrical and electronic controls. They are employed by electrical contractors and maintenance departments of factories, plants, mines, shipyards and other industrial establishments.

Prerequisite: Registered Industrial Electrician Apprentices with the Industry Training Authority

ELEL 1900

Electrical Trade Sampler (120 hours)

This course is a sampler of the electrical trade based on the Electrical Foundation Program outline from the Industry Training Authority of BC. Students will gain familiarity with the safe use of hand tools, portable power tools and other equipment regularly used by electricians, as well as gaining familiarity with many of the materials used in the Trade. The emphasis of this course is on developing practical, hands-on electrical skills. |Prerequisite: Completion of Grade 10

ELEL 2000

Electrician Apprentice Level 1

Electrician means a person who installs, constructs, alters, repairs, maintains, commissions, tests, services, calibrates and operates related electrical and electronic systems in any premise, place, building or structure.

Prerequisite: Registered Construction Electrician apprentice with the Industry Training Authority

ELEL 3000

Electrician Apprentice Level 2

Electrician means a person who installs, constructs, alters, repairs, maintains, commissions, tests, services, calibrates and operates related electrical and electronic systems in any premise, place, building or structure.

Prerequisite: Registered Construction Electrician apprentice with the Industry Training Authority

ELEL 4000

Electrician Apprentice Level 3

Electrician means a person who installs, constructs, alters, repairs, maintains, commissions, tests, services, calibrates and operates related electrical and electronic systems in any premise, place, building or structure.

Prerequisite: Registered Construction Electrician apprentice with the Industry Training Authority

ELEL 5000

Electrician Apprentice Level 4

Electrician means a person who installs, constructs, alters, repairs, maintains, commissions, tests, services, calibrates and operates related electrical and electronic systems in any premise, place, building or structure.

Prerequisite: Registered Construction Electrician apprentice with the Industry Training Authority

ELTE 1010

Electrical Trade Entry/Theory

Students are introduced to theory and gain hands-on lab experience in the following topics: electrical safety fundamentals; DC circuits; electromagnetism; meters and test equipment; electrical prints and drawings; AC motor controls; electrical code and wiring; and industrial power electronics.

ELTE 1110

Electrical Trade Entry/Practical

Students gain experience in hands-on shop training in residential, commercial and industrial equipment installation and wiring methods.

ENGL 0300 4 credits

Fundamentals of English (8,0,0)

ABE - Fundamentals: This course combines reading and writing to provide students with a greater ability to cope in work and educational situations. Students will practice reading and writing skills, and develop basic grammer.

Note: This course is taught by the University and Employment Preparation

ENGL 0400 4 credits

Basic Language Skills (6,0,0)

This course is designed to provide students with the knowledge, skills, and strategies to enter higher level courses. It is based on the following core skills: vocabulary development, reading, writing and study skills.

Prerequisite: Completion of ENGL 0300, or English 9, or equivalent, with a B or better; or placement on the TRU entry assessment tests at an 0400 level in English

Note: This course is taught by the University Preparation Department

Exclusion: ENGL 0401

ENGL 0500 4 credits

Developing Writing Skills (6,0,0)

ABE - Advanced: A basic writing skills course which covers mechanics, sentence structure, grammar and composition. The major modes of writing (description, narration, and exposition) are covered.

Prerequisite: Successful completion of ENGL 0400 or English 10, or equivalent with a C+ or better or Communications 12 with a C+ or better

Note: This course is taught by the University Preparation Department

Note: Students cannot receive credit for both ENGL 0500 and ENGL 0501

ENGL 0600 4 credits

Literature and Composition (6,0,0)

ABE - Provincial: ENGL 0600 is a Provincial Level (Grade 12 equivalency) course which prepares students for the demands of compositions required in academic courses. It provides for further development of writing and thinking skills begun in earlier levels. Students work with a variety of rhetorical models for essay development. Also included is a critical analysis of selected works of prose and poetry.

Prerequisite: ENGL 0500 or English 11 or equivalent, with a C+ or better, or completion of all of ESAL 0570 and 0580 with a grade of C or better

Note: This course is taught by the University Preparation Department

Note: Students cannot receive credit for both ENGL 0600 and ENGL 0601

ENGL 0620 4 credits

Composition and Studies in Indigenous Literature (6,0,0)

This course is a Provincial Level (Grade 12 equivalency) course which prepares students for university level English courses. It provides further development of writing and thinking skills. Students work with a variety of models for essay development. Indigenous perspectives will be explored through critical analysis of selected works of prose and poetry written by indigenous authors or covering topics about Indigenous issues. A variety of teaching approaches will promote success of students working from a variety of learning styles, backgrounds, and experiences.

Prerequisite: ENGL 0500 or ENGL 11 or equivalent with a minimum C+

Note that students cannot receive credit for more than one of ENGL 0600, 0601 and 0620

ENGL 1100 3 credits

Introduction to University Writing (3,0,0)

Students explore the practices of reading and writing in scholarly contexts. Students read and analyze scholarly journal articles from a variety of disciplines and also develop their abilities to compose in the generes and sub-generes of scholarly writing, including incorporating research and documentation in a grammatically correct style.

Prerequisite: English 12 or English 12 First Peoples with a minimum of 73% (with the government exam within the last 5 years) or equivalent.

Note: students cannot receive credit for both ENGL 1100 and ENGL 1101

ENGL 1110 3 credits

Critical Reading and Writing (3,0,0)

Students develop skills in close critical reading and writing using a variety of creative narrative texts. Students learn to engage in a careful analysis and interpretation of the perspectives, techniques, and rhetorical strategies employed by writers to convey a given subject matter. They also practice and build on scholarly writing and documentation skills. Critical reading and writing skills are keys to success in any academic discipline and transfer directly to the workplace.

Prerequisite: English 12 or English 12 First Peoples with a minimum of 80% (with the government exam within the last 5 years) or equivalent.

Note: Students cannot receive credit for both ENGL 1110 and ENGL 1001.

ENGL 1120 3 credits

Introduction to Poetry (3,0,0)

Students are introduced to literary forms of poetry based on a particular theme chosen by the professor. Through lecture, class discussion, and written assignments, students develop their ability to explore, appreciate, and make connections among poems selected from a wide range of classic and contemporary forms.

Prerequisite: English 12/English 12 First Peoples with a minimum of 73% or equivalent (within the last 5 years).

ENGL 1140 3 credits

Introduction to Drama (3,0,0)

Students are introduced to literary forms of drama based on a particular theme chosen by the professor. Through lecture, class discussion, and written assignments, students develop their ability to explore, appreciate, and make connections among plays selected from a wide range of classic and contemporary forms.

Prerequisite: English 12/English 12 First Peoples with a minimum of 73% (within the last 5 years).

ENGL 1150 3 credits

Introduction to Creative Writing (3,0,0)

This course introduces students to the field of creative writing by focusing on three of the following genres - poetry, fiction, drama and creative non-fiction. By reading and analyzing contemporary work, students determine how these texts are constructed. Students work on developing images, voice, character, setting, and narrative through a series of exercises, and gain an understanding of specific concepts and terminology used by creative writers.

Prerequisite: English 12/English 12 First Peoples with a minimum of 80% (within the last 5 years).

ENGL 1210 3 credits

Introduction to Drama and Poetry (3,0,0)

Students are introduced to literary forms of poetry and drama based on a particular theme chosen by the professor. Through lecture, class discussion, and written assignments, students develop their ability to explore, appreciate, and make connections among poems and plays selected from a wide range of classic and contemporary forms.

Prerequisite: English 12/English 12 First Peoples with a minimum of 73% (within the last 5 years).

ENGL 2000 3 credits

Introduction to Canadian Studies (3,0,0)

Students explore Canadian Studies by examining some key concepts and themes that have emerged across a wide spectrum of scholarship on Canada. Students increase their awareness of the dynamics of all aspects of Canadian literature and culture. At the discretion of the individual instructor, this course may focus on a particular time period, relationship, or theme.

Prerequisite: 6 credits of first-year English (with the exception of ENGL 1150) or equivalent, or permission of the instructor or department chair.

ENGL 2010 3 credits

Writing and Critical Thinking: The Personal in Academic Discourse (3,0,0)

The subject of this course includes reading and writing, with a focus on the literacy narratives genre. Students read and interpret a selection of literacy narratives by scholars as well as scholarly articles that explore the role of the personal in academic discourse. Students gain extensive practice in thinking critically and writing about their own literacy experiences.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210

ENGL 2020 3 credits

Writing and Critical Thinking: Research (3,0,0)

The subject of this course is academic writing, with a focus on the research genres, including critical summaries, research proposals and research papers. Students analyze and gain extensive practice in research writing, while also considering various stylistic strategies. Prerequisite: Any two of ENGL 1100, 1110, 1120, 1140 or 1210

ENGL 2040 3 credits

Canadian Drama: From Page to Stage and Screen (3,0,0)

Through a focus on modern and contemporary plays, this course introduces students to various theatrical techniques and dramatic modes. Works by such playwrights as Tremblay, Ryga, Highway, Clements, and Lepage may be among those studied. Whenever possible, texts are studied in conjunction with local theatrical productions.

Prerequisite: two 1st year Academic English courses with a C or better or instructor's written consent.

ENGL 2060 3 credits

Creative Writing - Fiction (3,0,0)

This course consists of lectures and workshops on writing literary fiction. Through lectures, readings and tests, students identify and critique the use of fictional techniques in contemporary fiction. Assignments require students to apply their knowledge of fiction and skills by writing original creative work.

Prerequisite: Any two of ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210 and ENGL 1150 (Recommended)

ENGL 2070 3 credits

Creative Writing - Drama (3,0,0)

This course consists of lectures and workshops on writing stage plays. Lectures and assignments focus on the techniques and requirements of contemporary play writing.

Prerequisite: Any two of ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210 and ENGL 1150 recommended

ENGL 2080 3 credits

Creative Writing - Poetry (3,0,0)

This course consists of lectures and workshops on writing poetry, with an emphasis on the study and practice of basic poetry writing techniques. Through lectures, readings and assignments, students identify and apply various stylistic elements of contemporary poetry writing.

Prerequisite: Any two of ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210 and ENGL 1150 (Recommended)

ENGL 2110 3 credits

Literary Landmarks in English to 1700 (3,0,0)

Students explore the development of the English language, key genres, influential authors, and important literary movements that emerged from approximately 700 C.E. to the late 1600s. Students read representative genres, including epic, romance, sonnets, and comedy, and they examine these genres in their historical and cultural contexts. Students consider the far-reaching influence of Chaucer, Shakespeare, and Milton, as well as the contributions of other writers of the period. This course is required for English Majors and Minors.

Prerequisite: 6 credits of first-year English, or equivalent, (with the exception of ENGL 1150) or pemission of the instructor or department Chair.

ENGL 2120 3 credits

Reading Literature: Essential Skills (3,0,0)

Students from all disciplines, and especially English Majors, develop advanced reading and writing skills as well as practical tools for success in writing and literature courses. Students learn greater appreciation for the language of literature and practice close reading skills as well as analysis of the historical, political, and cultural dimensions of works from three genres: poetry, drama, and fiction. In addition, students explore diverse critical approaches to the study of literature.

Prerequisite: 6 credits of first-year English (with the exception of ENGL 1150) or equivalent or permission of the instructor or department Chair.

ENGL 2140 3 credits

Biblical and Classical Backgrounds of English Literature 1 (3,0,0)

The course introduces students to Classical literature (mainly Greek) and the Bible (Old Testament: Hebrew Scriptures)& texts that are relevant and significant to subsequent culture, and especially for written works in English. Students also read and discuss additional representative works in English that have been influenced by the Bible and by Classical literature.

Prerequisite: two 1st year Academic English courses with a C or better or instructor's written consent.

ENGL 2150 3 credits

Women and Literature: Voice, Identity and Difference (3,0,0)

Students explore women's voices, past and present, in fiction and non-fiction. The focus is on issues related to women's self-expression, paying attention to the formation of identity, and taking into account elements of difference such as social class, ethnicity, and culture. Students gain an appreciation of the creative approaches women have used to voice their life experiences and their visions. Through lecture, class discussion, and written assignments, students develop their ability to think critically and write about literature.

Prerequisite: two 1st year Academic English courses with a C or better or instructor's written consent

ENGL 2160 3 credits

Introduction to American Literature 1 (3,0,0)

Students examine major writers and works in American literature up to 1900. Students analyze and discuss nineteenth-century works that explore the development of American literary identity, including poetry, nonfiction, and prose fiction.

Prerequisite: two 1st year Academic English courses with a C or better or instructor's written consent.

ENGL 2170 3 credits

Contesting Time, Space and Genre in Canadian Literature (3,0,0)

This course investigates Canadian literature, in relation to changing concepts of national identity, and as expressed through Canadian attitudes toward our history and geography. Students consider literary work across a wide range of historical periods, spaces, and genres, with a special thematic emphasis on one of the following in any given calendar year: history in Canadian literature, country vs. city life in Canada, or re/writing the Canadian landscape. Please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department for the current thematic offering.

Prerequisite: in two first-year academic English courses with a C or better or instructor's written consent.

ENGL 2180 3 credits

Studies in Literature and Culture (3,0,0)

Students explore the relationship between literature and cultural contexts. The approach of the course varies, sometimes focusing on a specific literary and cultural theme in a variety of genres and time periods, sometimes focusing on a specific cultural period, place, or movement and the literary texts and issues that emerged from it.

Prerequisite: 6 credits of first-year English (with the exception of ENGL 1150) or equivalent, or permission of instructor or department chair

ENGL 2190 3 credits

Studies in Literature and Film (3,0,0)

Students explore the connected arts of literature and film by studying the relationships between written and filmed forms of selected literary texts, such as novels, short stories, poems and plays. The selected literary genres and films change each year.

Prerequisite: 6 credits of first-year English (with the exception of ENGL 1150) or equivalent , or permission of instructor or department chair

ENGL 2200 3 credits

Studies in Literature 1 (3,0,0)

Students explore literary topics, themes, or issues within the discipline. Topics may vary depending on faculty and student interest and current developments in the field.

Prerequisite: 6 credits of first-year English (with the exception of ENGL 1150) or equivalent, or permission of the instructor or department Chair.

ENGL 2210 3 credits

Survey of English Literature, Eighteenth and Nineteenth Century (3,0,0)

This course examines selected major authors of the Augustan, Romantic and Victorian periods in English literature. Authors may include Dryden, Pope, Swift, Wordsworth, Coleridge, Byron, Keats, Shelley, Tennyson and Arnold, and representative novelists.

Prerequisite: C (or better) in two 1st year Academic English courses, or instructor's written consent

ENGL 2240 3 credits

Biblical and Classical Backgrounds of English Literature 2 (3,0,0)

This course introduces students to Classical literature (mainly Roman) and the Bible (New Testament) - texts that are relevant and important for subsequent culture and especially for writing in English. Representative works in English that have been influenced by the Bible and by Classical literature are also read and discussed.

Prerequisite: C (or better) in two 1st year Academic English courses, or instructor's written consent

ENGL 2250 3 credits

Women and Literature: Women's Bodies/Women's Roles (3,0,0)

Students read a diverse range of fiction and non-fiction about the experiences connected to inhabiting a female body and the roles women have assumed over time with varying degrees of acceptance or resistance. Through lecture, class discussion, and written assignments, students deepen their understanding of women's ideas on these matters as well as develop their ability to think critically and write about literature.

Prerequisite: C (or better) in two first- year Academic English courses, or instructor's written consent

ENGL 2260 3 credits

Introduction to American Literature 2 (3,0,0)

Students examine major writers and works in American literature after 1900. The course may include poetry, nonfiction, prose fiction, and drama, with a focus on the rise of American modernism.

Prerequisite: C (or better) in two 1st year Academic English courses, or instructor's written consent

ENGL 2270 3 credits

Subversion and Social Justice in Canadian Literature (3,0,0)

Students explore the ways in which Canadian poets, dramatists and fiction writers have been in the forefront of movements for social change, expressing new visions of responsible government, economic fairness, and social equity. The course investigates Canadian literature and expressions of subversion and social justice via special thematic emphasis on one of the following in any given calendar year: protest literature in Canada and satire; and Canadian literature and creativity; and citizenship in Canada. Since the content of this course changes each year, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: C (or better) in two 1st year Academic English courses, or instructor's written consent

ENGL 2400 3 credits

Studies in Literature 2 (3,0,0)

Students explore literary topics, themes, or issues within the discipline. Topics may vary depending on faculty student interest and current developments in the field.

Prerequisite: 6 credits of first-year English (with the exception of ENGL 1150) or equivalent or permission of the instructor or department Chair.

ENGL 2410 3 credits

Indigenous Narratives in Canada (3,0,0)

Students explore the contemporary application of narrative structure that shapes the literature of Indigenous cultures, focusing on modern and contemporary poetry, drama, short stories, novels, and essays. Through close reading of Indigenous narratives from a variety of nations, including local Secwepemc narratives, students gain cultural competency and an appreciation of the real-world application of issues studied.

Prerequisite: 6 credits of first-year English (with the exception of ENGL 1150) or equivalent or permission of the instructor or department Chair.

ENGL 2420 3 credits

Canadian Literature and Film (3,0,0)

Students complete a comparative study of the written and filmed versions of selected Canadian texts, from novels and short stories to poems, scripts, and plays, and they explore the effects of the translation from literary text to film.The selected literary genres and films change each year.

Prerequisite: 6 credits of first-year English (with the exception of ENGL 1150) or equivalent or permission of the instructor or department chair.

Note: students cannot receive credit for both ENGL 2420 and CNST 2420

ENGL 3020 3 credits

Travel Media (3,0,0)

This course studies novels, journals, blogs, films, and guidebooks in order to understand and produce texts in the complex matrix called "travel media." It examines many examples of travel media, both commercial and personal in order to understand how it has developed and currently works. These examples are considered from many perspectives such as the figure of "the Other," colonialism, the flaneur, postmodernism, and even visual and document design. The course considers the strategies of design that constitute the various genres of travel media, from logs, vlogs, and multimedia, to guides, and even stories.

ENGL 3080 3 credits

Advanced Composition 1 - Personal Expression (3,0,0)

This course focuses on the rhetoric of personal expression, especially description and narration. Students are introduced to the concept of how multiple literacies variously compete and interact in the world around us; in practical terms, the course explores how a focus on personal expression can be used to improve writing skills at an advanced level.

Prerequisite: Completion of 45 credits (any discipline)

Note that students cannot receive credit for both CMNS 3080 and ENGL 3080

ENGL 3120 3 credits

Indigenous Dramas (3,0,0)

Students examine plays by Indigenous peoples with a focus on understanding the connections between traditional storytelling and staged works. Issues of ethnicity, appropriation, hybridity, historical revisionism, canon formation, and cultural stereotyping may be discussed. Students study plays in their historical and cultural contexts and examine the development of First Nations theatre.

Prerequisite: 6 credits of first-year English (with the exception of ENGL 1150) or equivalent AND completion of 45 credits OR permission of the instructor or department chair

ENGL 3130 3 credits

European Literature in Translation (3,0,0)

This course deals with aspects of the European literary tradition from its beginnings to the twentieth century, focusing on major representative texts in translation and their relevance to English literature.

Prerequisite: Any two English 1100, 1110 or 1210 and completion of 45 credits

ENGL 3140 3 credits

*****Studies in Fiction (3,0,0)**

This course includes special topics involving thematic, generic, or formal approaches to fiction. Students may take this course more than once, provided the content is different each time. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, and completion of 45 credits or permission of the instructor

ENGL 3150 3 credits

Studies in Non-Fiction (3,0,0)

Students discuss the development and theory of a non-fiction genre, including autobiography, biography, creative non-fiction, memoir, or travel narrative. This course may be taken more than once, provided the content is different each time. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, and completion of 45 credits or permission of the instructor

ENGL 3160 3 credits

*****Studies in Literature and the Other Arts (3,0,0)**

Students analyze the strategies writers and artists in other media use to deal with common themes, and examine problems in formal and stylistic relationships between literature and other arts. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, and completion of 45 credits or permission of the instructor

ENGL 3170 3 credits

Science Fiction (3,0,0)

Students focus on the main trends in science fiction since 1960, including works by Dick, Ballard, Le Guin, Gibson, and others.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, and completion of 45 credits or permission of the instructor

ENGL 3180 3 credits

Children's Literature (3,0,0)

Students examine works of children's literature from the last three centuries (including selected fairy tales, novels, stories, poems, and picture books) in order to explore changing perceptions of childhood over time. Students consider how literature aimed at children was used to differentiate children from adults (as well as to challenge such a distinction), to entertain, and to socialize children on issues relevant to their lives in a rapidly changing world. The course also explores connections between children's literature and adult cultural traditions, and demonstrates the importance of the hybrid (or simultaneous child and adult) audiences suggested by many of these works.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, and completion of 45 credits or permission of the instructor.

ENGL 3190 3 credits

*****Studies in the Intellectual Backgrounds of Literature (3,0,0)**

This course covers special topics in the history of ideas, with particular reference to ideas that illuminate or are embodied in literature. Students may take this course more than once provided the content is different each time. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, and completion of 45 credits or permission of the instructor.

ENGL 3240 3 credits

Fairy Tale Variants and Transformations (3,0,0)

Students examine the history of several fairy tales from oral folklore to early written versions, as well as subsequent literary variants from the seventeenth to twenty-first centuries.

Prerequisite: 6 credits of first-year English (with the exception of ENGL 1150) or equivalent AND completion of 45 credits or permission of the instructor

ENGL 3250 3 credits

Women's Memoirs (3,0,0)

Students examine memoirs as a unique sub-genre included under the umbrella term "Life Writing." Through close reading of example narratives from different places and times, students understand the main differences between traditional autobiographies and the memoir form. Students also consider how women in particular have found the memoir form to be a useful tool of self-representation in various contexts.

Prerequisite: Six credits of first-year English (with the exception of ENGL 1150) or equivalent AND completion of 45 credits or permission of the instructor or department chair

ENGL 3300 3 credits

Reading Literature and Literary Theory: Advanced Skills (3,0,0)

This course provides an opportunity for extended practice in literary criticism -- that is, in reading works closely and responding to them through interpretation and evaluation. Students examine a limited number of texts through a variety of critical theories such as formalism, reader response, psychological, New Historicist, feminist, deconstruction and cultural criticism. Students gain an understanding of the theories and of the degree to which each approach 'opens up' a text.

Prerequisite: Any two of ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, and completion of 45 credits, or permission of the instructor

Recommended: This course is recommended for English Majors.

ENGL 3320 3 credits

Modern Critical Theories (3,0,0)

This course surveys major modern theories, and provides students with an opportunity to apply them to literary texts.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, and completion of 45 credits, or permission of the instructor

ENGL 3330 3 credits

***** Special Topics in Creative Writing (1,2,0)**

This course offers the advanced study and practice of one or more of the following topics: literature for a young audience, and genre writing (for example, mystery, horror, or fantasy). Through readings and workshops, students define their own projects and produce a substantial portfolio of original work. Students may take this course more than once, provided the content is different each time. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: Any two of ENGL 1100 or ENGL 1110, ENGL 1120 or ENGL 1140 or ENGL 1210, Completion of 45 credits, or permission of the instructor

Recommended: ENGL 1150

ENGL 3340 3 credits

Writing Speculative Fiction (1,2,0)

This advanced course in writing speculative fiction includes work on projects in science fiction, post-apocalyptic fiction, and prehistoric fiction, and progresses through discussion, lectures, and workshops. Assignments, discussions, readings and workshops focus on learning and implementing a variety of fictional methods within these genres. Students explore the intersections of the known and unknown worlds through the tools of literary fiction.

Prerequisite: Any two of ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor

Recommended: ENGL 1150

ENGL 3350 3 credits

*****Studies in Major Authors (3,0,0)**

This course probes the works of no more than two significant writers. Specific topics are announced each year. Students may take this course more than once, provided the content is different each time. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor.

ENGL 3360 3 credits

Advanced Short Fiction Writing (1,2,0)

Through readings, discussion, lectures, and workshops, this course provides an opportunity for advanced practice in writing fictional short stories, between 1,000 and 10,000 words in length. Students produce a substantial portfolio of original work.

Prerequisite: Any two of ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, Completion of 45 credits, or permission of the instructor.

Recommended: ENGL 1150

ENGL 3370 3 credits

Novel Writing (1,2,0)

Through readings, discussion, lectures, and workshops, this course provides an opportunity for practice in planning and writing a novel. Students define their own projects and produce the first 30 pages of a novel as well as a substantial synopsis of the whole work.

Prerequisite: Any two of ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor.

Recommended: ENGL 1150

ENGL 3380 3 credits

Advanced Poetry Writing (1,2,0)

Through readings, discussion, lectures, and workshops, this course provides an opportunity for practice in planning and writing poetry. Assignments and workshops focus on learning, implementing, and revising a variety of poetic forms and styles. Students learn about a variety of poetic schools and traditions.

Prerequisite: Any two of ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, Completion of 45 credits, or permission of the instructor

Recommended: ENGL 1150

ENGL 3390 3 credits

Advanced Drama Writing (1,2,0)

Through readings, discussion, lectures, and workshops, this course provides an opportunity for advanced practice in writing stage plays. Students are expected to write a one-act play of 20-40 pages. Prerequisite: Any two of ENGL 1100, 1110, 1120, 1140, or 1210 in addition to 3rd year standing or permission of the instructor.

Prerequisite: Any two of ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor

Recommended: ENGL 1150

ENGL 3410 3 credits

Screenwriting (3,0,0)

Students explore both similarities and differences in stage and screen writing, through examining and participating in: a critical analysis of contemporary short screenplays as models; developmental exercises on techniques of screen writing; and in-class workshops. The course is based on the premise that creative writing is a craft that requires knowledge of contemporary practitioners in a given genre as well as continual practice.

Prerequisite: Completion of 45 credits or permission of the instructor

ENGL 3550 3 credits

Chaucer (3,0,0)

This course provides a detailed study of Chaucer's major works.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, Completion of 45 credits, or permission of the instructor.

ENGL 3650 6 credits

Shakespeare (3,0,0)(3,0,0)

This course consists of lectures on various aspects of Shakespeare's art, and includes a detailed study of twelve plays.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor

ENGL 3660 3 credits

Studies in Shakespeare (3,0,0)

Students explore Shakespeare and his work. This course may be taken more than once provided the content is different each time. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, Completion of 45 credits, or permission of the instructor.

ENGL 3710 3 credits

Poetry of the Early Seventeenth Century (3,0,0)

Students examine the two main traditions of English verse in this 'golden age of poetry': the metaphysical and neo-classical. Of the metaphysical poets, Donne

and Herbert receive most attention, while Jonson and Herrick are most representative of the neo-classical tradition. Interesting variations within each mode are also considered. The emergence of women's writing in this context is important, especially in the works of Lanyer, Wroth, and Philips. Students consider such topics as the politics of desire, representing the sacred, the ideology of landscape, the emergence of the subject, and the usefulness of such terms as 'metaphysical,' and 'neo-classical.' Emphasis is placed on the thoughtful reading of poems in their cultural context for the purpose of appreciating each poet's literary art.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor.

ENGL 3730 3 credits

*****Topics in Seventeenth-Century Literature (3,0,0)**

This course explores special themes, forms, and authors (excluding Milton) of seventeenth century literature. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, Completion of 45 credits, or permission of the instructor.

ENGL 3740 3 credits

Milton's Paradise Lost (3,0,0)

This course provides students with the opportunity to gain an in-depth appreciation of Milton's Paradise Lost, one of the most influential poems in the English language. As well as reading the poem closely and considering such topics as Milton's epic style, the gendering of Adam and Eve, the relationship between individual liberty and authority, the characterization of Satan, and Milton's use of symbolic forms and images, we place the poem in the context of Milton's life and his participation in the Civil War. Above all, Milton's achievement in the art of poetry is emphasized since this is what influenced such diverse writers as Blake and Pope, Eliot and Melville, Byron and Bronte, Pullman and Lewis and led him to have such an important impact on literary tradition.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor

ENGL 3750 6 credits

Milton (3,0,0)(3,0,0)

This course is an in-depth examination of the works, and their contexts, of seventeenth century English poet, John Milton.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, Completion of 45 credits, or permission of the instructor.

ENGL 3810 3 credits

Poetry of the Age of Dryden and Pope (3,0,0)

Students explore poetry from the Restoration to the middle of the eighteenth century. Representative authors include Rochester, Finch, and Addison, in addition to Dryden and Pope.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor

ENGL 3820 3 credits

Poetry of the Middle and Late Eighteenth Century (3,0,0)

Students explore poetry from the time of Johnson to the beginnings of Romanticism. Representative authors include Johnson, Collins, Smart, and Cowper.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, Completion of 45 credits, or permission of the instructor

ENGL 3840 3 credits

The English Novel in the Eighteenth Century (3,0,0)

Students examine, in chronological sequence, the growth of the novel in eighteenth-century England, by looking at the relationship (sometimes hostile, sometimes sympathetic) between the novel and the traditions of comedy, romance, and epic. Topics include an examination of the relationship between the novel and journalistic prose, autobiography, and biography.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140, ENGL 1210, completion of 45 credits, or permission of the instructor.

ENGL 3850 3 credits

Restoration and Early Eighteenth Century Literature (3,0,0)

This course offers a survey of Restoration and early eighteenth century English literature and its backgrounds. Students examine poetry, drama and prose. The course is organized chronologically, to emphasize literary developments.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor.

ENGL 3860 3 credits

Mid and Late Eighteenth Century Literature (3,0,0)

This course offers a survey of literature from the middle to the end of the eighteenth century. Students explore poetry, drama and prose, as well as backgrounds to the works studied. The course is organized chronologically, to emphasize literary developments.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor.

ENGL 3890 3 credits

Studies in Eighteenth Century Thought and Literature (3,0,0)

This single-term or full-year course studies systems of thought, or other cultural elements, as they contribute to the interpretation and evaluation of literature. Students may take this course more than once, provided the content is different each time. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, Completion of 45 credits, or permission of the instructor.

ENGL 3910 6 credits

Romantic Poetry (3,0,0)(3,0,0)

Blake, Wordsworth, Coleridge, Byron, the Shelleys, and Keats.

Prerequisite: Any two of ENGL 1100, 1110 or 1210 and completion of 45 credits.

ENGL 3940 3 credits

The Victorian Novel (3,0,0)

Developments in the novel from Dickens to Thomas Hardy.

Prerequisite: Any two of ENGL 1100, 1110 or 1210, Completion of 45 credits.

ENGL 4000 3 credits

Early Modern British Literature (3,0,0)

Development in British Literature, including the genres of novel, poetry, drama, and biography, from 1880 to the 1920s.

Prerequisite: Any two of ENGL 1100, 1110, or 1210 and completion of 45 credits.

ENGL 4040 3 credits

The Modern British Novel (3,0,0)

Developments in the novel up to the Second World War.

Prerequisite: Any two of ENGL 1100, 1110 or 1210, Completion of 45 credits,

ENGL 4130 3 credits

Contemporary British Drama (3,0,0)

This course surveys British drama from the 1950s, with Beckett's absurdist work and John Osbourne's hyper-realism, to the 1980s and 1990s' feminist cultural critiques by Caryl Churchill and Pam Gems.

Prerequisite: Any two of ENGL 1100, 1110 or 1210 and completion of 45 credits.

ENGL 4140 3 credits

The Contemporary British Novel (3,0,0)

Students examine the novel, from the Second World War to the present.

Prerequisite: Any two of ENGL 1100, 1110 or 1210 and completion of 45 credits.

ENGL 4150 3 credits

*****Studies in Women's Literature (3,0,0)**

Major themes in Women's literature or theory.

Prerequisite: Any two of ENGL 1100, 1110, or 1210 and Completion of 45 credits

ENGL 4160 3 credits

Topics in Modern Irish Literature (3,0,0)

This course examines topics in Irish literature (in English) since the Irish Literary Renaissance. Students may take this course more than once, provided the content is different each time. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor

ENGL 4200 6 credits

Canadian Literature (3,0,0)(3,0,0)

A study of the literature in English with some attention to major French-Canadian works in translation. **This course is going to be semesterized. Consult English and Modern Languages department for details.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor.

ENGL 4210 3 credits

Studies in British Columbia Literature (3,0,0)

Students explore work that depicts aspects of BC life. From the urban to the rural, from the coast to the interior, and from the past to the present, course readings provide a panorama of the province. Through this exploration, students gain not only a greater sense of local and provincial literature but also an understanding of relevant literary movements.

Prerequisite: Six credits of first year English (with the exception of ENGL 1150) or equivalent AND completion of 45 credits or permission of the instructor or department Chair

ENGL 4220 3 credits

Modern Canadian Drama on the Page, Stage, and Screen (3,0,0)

Students can expect to become familiar with the themes and approaches of Canadian drama from 1967 to the present. Taking a survey approach, students study plays from different regions of Canada that represent a spectrum of approaches that may include postmodern, feminist, postcolonial, collective creations, and intercultural. Films or excerpts of some of these plays will be included, and students may be engaged with current local productions and with theatre professionals.

Prerequisite: 6 credits of first-year English (with the exception of ENGL 1150) or equivalent and completion of 45 credits or permission of the instructor or department chair.

ENGL 4240 3 credits

Nineteenth Century Canadian Literature (3,0,0)

This course will survey major authors and trends in Canadian literature written before 1900. Some pre-nineteenth century work will be included, but the course will focus on the nineteenth century.

Prerequisite: Any two of ENGL 1100, 1110, 1120, 1140 or 1210 and Completion of 45 credits,

ENGL 4250 3 credits

Contemporary Canadian Poetry (3,0,0)

This course focuses on English Canadian poetry written between mid-twentieth century and the present. In addition to examining and analyzing representative poems, students are expected to consider questions of both a 'national poetry' and the poetic genre itself. Students explore the following questions: What constitutes the Canadian-ness of Canadian poetry? What poetic techniques characterize innovative expression in these poems? Can common themes and poetic techniques be ascribed to these poems? Throughout the semester, students are encouraged to consider individual poems and the work of individual poets in this larger context.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor.

ENGL 4260 3 credits

*****Studies in Canadian Literature (3,0,0)**

This course presents special topics and approaches to Canadian literature. Literary periods, authors and material vary depending on the research interests of the instructor. Recent examples include Humour and Satire, British Columbia Literature, and Canadian Writing from the Edge of Genre. Students may take this course more than once, provided the content is different each time. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, Completion of 45 credits, or permission of the instructor.

ENGL 4340 3 credits

American Fiction to 1900 (3,0,0)

This course focuses on the writings of Irving, Poe, Hawthorne and Melville.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor

ENGL 4350 3 credits

American Fiction in the First Half of The Twentieth Century (3,0,0)

Students examine major works and movements between 1900 and 1950, including naturalism, realism, and modernism.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor

ENGL 4360 12 credits

*****Studies in American Literature (3,0,0) or (3,0,0)(3,0,0)**

This course involves special studies of individual periods of authors or themes in American literature. Students may take this course more than once, provided the content is different each time. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, Completion of 45 credits, or permission of the instructor

ENGL 4370 3 credits

American Fiction From Mid-Twentieth Century to the Present (3,0,0)

This course examines major works and movements since 1950, including realism, neorealism, and postmodernism.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor

ENGL 4430 3 credits

Studies in Literature and the Environment (3,0,0)

Students explore the relationships between humans and the natural (or the more-than-human) environment as it is represented in a variety of literary sources, such as poems, plays, short stories, novels and creative non-fiction. Students analyze the construction of the natural world through language, genre, imagery, and narrative. The specific focus of the course will change each year.

Prerequisites: 6 credits of first-year English (with the exception of ENGL 1150) or equivalent AND completion of 45 credits or permission of the instructor or department chair.

Note: Students cannot receive credit for both ENGL 4430 and ENGL 4231

ENGL 4440 3 credits

Postcolonial Women's Literature (3,0,0)

This course studies literature, written in English, by women from African nations, Australia, Canada, New Zealand, the Caribbean, and India. It includes work written from imperialist, colonial, and aboriginal perspectives. Students explore identity and gender politics through the analysis of texts by women from diverse nations and backgrounds.

Prerequisite: any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, Completion of 45 credits, or permission of the instructor

ENGL 4450 3 credits

Commonwealth/Postcolonial Literature (3,0,0)

This course surveys 'colonial' and 'postcolonial' literature from Canada, New Zealand, Australia, Asia, Africa and the Caribbean, with an emphasis on modern fiction. Works are studied within their historical and cultural contexts, and students gain an understanding of issues including canon formation, generic conventions, language choices, ethnic and first nations identifications, and competing definitions of 'postcolonial.'

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor

ENGL 4460 3 credits

*****Studies in Commonwealth/Postcolonial Literature (3,0,0)**

Students examine major themes in postcolonial literature or theory. This course may be taken more than once, provided the content is different each time. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, Completion of 45 credits, or permission of the instructor

ENGL 4470 3 credits

Studies in Indigenous Literature (3,0,0)

Students analyze modern and contemporary writing (in English) of Indigenous peoples in various parts of the world, with a focus on those of Canada and the United States. Students explore how Indigenous writers adapt oral strategies to writing and employ various techniques and devices to challenge and subvert colonial assumptions about genre, gender, class, and race.

Prerequisite: Six credits of first-year English (with the exception of ENGL 1150) or equivalent AND completion of 45 credits OR permission of the instructor or department Chair

ENGL 4510 3 credits

*****Studies in Literary Movements (3,0,0)**

Students examine such literary movements as Naturalism, Realism, Imagism, Impressionism,

Vorticism, and Modernism. This course may be taken more than once, provided the content is different each time. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor

ENGL 4600 3 credits

American Poetry of the First Half of the Twentieth Century (3,0,0)

Students examine major poets, themes, and movements between 1900 and 1950.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, completion of 45 credits, or permission of the instructor

ENGL 4610 3 credits

American Poetry From the Mid-Twentieth Century to the Present (3,0,0)

Students examine major poets, themes, and movements from 1950 to the present.

Prerequisite: Any two of: ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, Completion of 45 credits, or permission of the instructor

ENGL 4760 3 credits

Editing and Publishing (3,0,0)

Students learn practical skills in editing and publishing, with a focus on publishing peer authors' work, both academic and creative. Students gain hands-on experience editing including such material as the Proceedings of the TRU Undergraduate Research and Innovation Conference, as well as student creative writing, with the aim of producing a student creative writing publication. Students learn to revise and copy-edit their own work as well as that of others, and they explore the publication process. Literature students, creative writing students, and anyone else contemplating a career in publishing benefit from this course.

Prerequisite: 6 credits of first-year English (with the exception of ENGL 1150) or equivalent and completionn of 45 credits, or permission of instructor or department chair.

ENGL 4780 3 credits

Studies in Literature and Film (3,0,0)

This course explores the sister arts of literature and film and offers an in-depth study of the relationships between cinematic form and literary genres, such as the novel, drama, and the short story. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: Any two of ENGL 1100, 1110, 1120, 1140, or 1210, completion of 45 credits, or permission of the instructor

ENGL 4790 3 credits

*****Studies in Genre (3,0,0)**

Students explore a specific genre such as romance, comedy, travel narrative, or detective fiction. This course may be taken more than once, provided the content is different each time. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: Any two of ENGL 1100, 1110, 1120, 1140 or 1210, Completion of 45 credits, or permission of the instructor

ENGL 4970 6 credits

Directed Studies in Language and Linguistics

Students investigate a specific topic in language linguistics as agreed upon by the faculty member and the student. Projects must comply with all required approval procedures. Students may take this course more than once, provided the content is different each time. Since the content of this course varies, please visit the English and Modern Languages web pages, pick up a booklet of course offerings, or contact the English Department to request more information.

Prerequisite: Any two of ENGL 1100 or ENGL 1110 or ENGL 1120 or ENGL 1140 or ENGL 1210, in addition to completion of 45 credits or permission of instructor or department chair.

ENGR 1100 3 credits

Introduction to Engineering & Design (3,2,0)

Students are introduced to the engineering profession and to engineering design. Students learn the design steps of need assessment, research, analysis, concept selection, detailed design, and reporting to develop thoughtful and realistic solutions. Students work on a design project to contextualize the design portion of the course.

Students listen to the guest speakers who illustrate various aspects of the engineering profession.

Prerequisite: Admission to eith the Electrical, Computer, Software Engineering or Engineering Transfer Program OR Instructor permission

ENGR 2200 3 credits

Engineering in Society, Health and Safety (3,1,0)

Students are introduced to the concepts of safety and basic knowledge of hazards and their control. Students explore various types of hazards such as chemical, explosion, noise, radiations, liquids etc. in work environment, duties and legal, social responsibilities of engineers in order to follow safety laws and regulations from professional ethic's perspectives. Students learn safety analyses, safety planning, safety and risk management.

Prerequisite: Admission to either Electrical, Computer, Software Engineering or Engineering Transfer Program. OR Instructor's permission

ENGR 2300 3 credits

Engineering Management (3,1,0)

Students are introduced to the concepts of engineering project management from conception, commissioning to decommissioning phases. Students explore fundamentals of planning, design, value, quality, milestone monitoring and earned value analysis in managing engineering projects. Students learn contractor strategy, selection, contract management, partnership.

Prerequisite: ENGR 2200 with a minimum grade of C

ENGR 2400 3 credits

Engineering Economics (3,1,0)

Students are introduced to the concepts of engineering economics to be able to evaluate projects from a financial perspective that are needed in the decision making process. Students learn various financial and analytical techniques such as cash flow analysis, comparison methods, time value, capital management, inflation, sensitivity and risk analysis.

Prerequisite: ENGR 2200 with a minimum grade of C

ENGR 3300 3 credits

Engineering Professional Ethics (3,1,0)

Students are introduced to the professional and ethical responsibilities of a professional engineer and regulations of the practice. Students learn the concepts of impact of engineering product on society. Students explore a wide variety of ethical issues related to consulting, private practice, business, hazards, liabilities, standards, safety, computers, software, intellectual property, fairness and equity in the professional workplace.

Prerequisite: ENGR 2200 with a minimum grade of C OR ENGR 2300 with a minimum grade of C

ENSU 1000 1 credits

Leadership in Environmental Sustainability (0,1,0)

This one credit course is designed to recognize knowledge gained from existing courses and actions undertaken by students that contribute towards environmental sustainability competency. Environmental sustainability experiences may be acknowledged through: documented projects; community or TRU volunteer work; extra-curricular knowledge sharing; participation in environmental or social organizations; research papers; art work; architectural design; and relevant assignments in courses as they relate to environmental issues.

Prerequisite: Permission from the Centre for Student Engagement and Learning Innovation

ENTR 3710 3 credits

Marketing for Entrepreneurs (3,0,0)

Students gain an understanding of marketing in an entrepreneurial context in order to develop the right business opportunities in small and medium-sized enterprises (SME). They learn how to design a marketing information system to identify opportunities, understand customers and develop effective marketing programs that allow SMEs to grow in a competitive market. Topics include: marketing in an entrepreneurial context; finding and evaluating the right marketing opportunity; using marketing research to ensure entrepreneurial success; understanding customers and competitors; segmentation, targeting and positioning for entrepreneurial opportunities; developing new products and services; building and sustaining entrepreneurial brand; entrepreneurial pricing, channel development, supply chain management and promotion; and entrepreneurial marketing plans.

Prerequisite: MKTG 2430 (minimum C-) or equivalent

ENTR 3720 3 credits

Small Business Finance (3,0,0)

Students acquire the knowledge and practical skills needed to successfully manage the financial affairs of a small business and new venture start-up. Topics include the importance of small business finance; evaluation of accounting software, hiring an accountant and/or bookkeeper, applicable taxes, payroll accounting, assessing insurance needs; determination of market size; sales forecasting for existing and new business ventures, pricing scenarios,

importance of benchmarking to similar businesses, budgeting capital and operational expenses for start-up ventures and existing businesses, development of pro forma financial statements; development of financial modeling tools using excel for scenario and variance analysis: working capital management; sources of long-term and short-term financing; and bankruptcy.

Prerequisite: FNCE 2120 (minimum C-) or equivalent

Note: Students cannot receive credit for more than one of ENTR 3720 or BBUS 3710

ENTR 4750 3 credits

New Venture Creation (3,0,0)

Students develop the skills, values, and attitudes needed for success as an entrepreneur whether starting a new venture from scratch, joining or acquiring an existing business, or creating a new venture inside a larger organization. The primary activity is the development of a comprehensive business plan. Topics include small business entrepreneurs; the business plan; entry modes into small business; writing the business plan; target market, market research, and marketing plan; raising capital and the financial viability of new ventures; operational issues; legal structures and human resource issues; and risk management.

Prerequisite: ENTR 3720 (minimum C-); MKTG 2430 (minimum C-); or equivalent

Note: Students cannot receive credit for more than one of ENTR 4750, ENTR 4751,TMGT 4120, BBUS 4750 or BBUS 4751

ENTR 4760 3 credits

Small Business Management (3,0,0)

Building on ENTR 4750: New Venture Creation which takes a new small business from the planning stage to start-up, students examine how to successful operate an up-and-running venture. Topics include spotting entrepreneurial opportunities in small business; buying a business; legal concerns profiling your target customer; learning from the competition-competitive intelligence; pricing and promoting your product or service; distribution and location; the power of numbers; financing your business; risk management issues; and buying a franchise or franchising your business.

Prerequisite: ENTR 4750 (minimum C-) or equivalent

Note: Students cannot receive credit for both ENTR 4760, TMGT 4150 or BBUS 4760

ENVS 5020 3 credits

Advanced Topics in Ecology and Evolution (3,0,0)

This course involves: reading and discussion; methodology and data analysis; and critical evaluation, presentation and debate of cutting edge research in ecology and evolution. An emphasis is placed on understanding the integrative approach to environmental science.

Prerequisite: Graduate student standing and permission of the instructor. In special circumstances, undergraduate students with 4th year standing may be allowed to enrol.

ENVS 5030 3 credits

Advanced Topics in Physical Sciences (3,0,0)

Students undertake an investigation on a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required.

Prerequisite: Graduate student standing and permission of the instructor. In special circumstances, undergraduate students with 4th year standing may be allowed to enrol.

ENVS 5040 3 credits

Advanced Topics in Policy and Management (3,0,0)

This course involves: reading and discussion; methodology and data analysis; and critical evaluation, presentation and debate of cutting edge research in policy and management. An emphasis is placed on understanding the integrative approach to environmental science.

Prerequisite: Graduate student standing and permission of the instructor. In special circumstances, undergraduate students with 4th year standing may be allowed to enrol.

ENVS 5100 3 credits

Environmental Science 1: History, Philosophy and Concepts (3,0,0)

Provides an introduction to the field of environmental science at the graduate level. Focus on history and philosophy of science in general, and environmental science in particular; guest lectures by faculty and researchers inside and outside of academia; examines the role of environmental science in society.

Prerequisite: Graduate student standing and permission of the instructor. In special circumstances undergraduate students with fourth-year standing may be allowed to enrol.

ENVS 5200 3 credits

Environmental Science 2: Conducting Science (3,0,0)(L)

Focuses on the proposal, design, and conducting of scientific research, particularly in the field of environmental science; includes overview of analytical methods used in different disciplines.

Prerequisite: ENVS 5100 or special permission of instructor

ENVS 5300 2 credits

Environmental Sciences: Topics and Case Studies (1,1,0)

This course uses the Environmental Science Seminar series as a foundation for exploring established and emerging topics in the field. In addition to scheduled class time, students must attend the seminars and meet with speakers to discuss their work. Students also become directly involved in the hosting of speakers.

Prerequisite: Graduate student standing

ENVS 5400 2 credits

Environmental Science: Dissemination and Outreach (30 hours)

Students design and deliver oral presentations and poster displays on their thesis research at the Master of Science research forum; students are also required to demonstrate that they have extended their work into the public forum through a variety of possible avenues.

Prerequisite: Admission to the MSc in Environmental Science program

ENVS 5480 3 credits

Directed Studies in Environmental Science (0,3,0)

Students undertake an investigation on a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required.

Prerequisite: Graduate student standing and permission of the instructor

ENVS 5990 18 credits

Master of Science Thesis (30 hours/week)

An original and substantial research project conducted by each student in the Master of Science Program in Environmental Science, under the direction of a faculty supervisor and a thesis advisory committee. Students register in this course each semester that they are in the program until all requirements for the thesis have been met.

Prerequisite: Acceptance into the MSc program in Environmental Science

EPHY 1150 3 credits

Physics for Engineers 1 (3,1,0)

This course is similiar to PHYS 1150: Mechanics and Waves except that Engineering students do complete the laboratory portion. Students are introduced to and apply calculus to physical concepts. Topics include mechanics, simple harmonic motion, mechanical waves, sound, wave optics and geometric optics.

Prerequisite: Admission to the Engineering Program

Required Seminar: EPHY 1150S

EPHY 1250 3 credits

Physics for Engineers 2 (3,0,3)(L)

This course is similar to PHYS 1250: Thermodynamics, Electricity and Magnetism , however, students may complete laboratory work more specifically related to Engineering. Topics include thermodynamics, kinetic theory of gases, electricity and magnetism.

Prerequisite: Admission to the Engineering Program, EPHY 1150 and MATH 1130

Co-requisite: MATH 1230

Exclusion: PHYS 1250

Required Lab: EPHY 1250L

EPHY 1700 3 credits

Engineering Mechanics 1 (3,1,0)

This is an introductory course in engineering mechanics. The first part of the course deals with statics and the second part with dynamics of particles and systems of particles.

Prerequisite: Admission to the Engineering Program

EPHY 1990 3 credits

Introduction to Engineering Measurements (2,3*,0)(L)

Students are introduced to the measurement and control of physical quantities of interest in engineering and scientific applications. Issues and methods relevant to the real-time measurement and control of parameters such as force, displacement, acceleration, temperature, level, pressure, and flow are considered. Students apply the principles developed in the course during seminars, and in discussions of case studies that are relevant to various engineering or scientific disciplines.

Prerequisite: MATH 1130 or 1140, and one of PHYS 1150 or EPHY 1150

Corequisite: MATH 1230 or 1240, and one of PHYS 1250 or EPHY 1250

Required Seminar: EPHY 1990S

EPHY 2150 3 credits

Circuit Analysis (4,0,3*)(L)

Students examine and discuss the analysis of linear electrical circuits, network theorems, first and second order circuits, and transfer functions for electrical and computer engineering students.

Prerequisite: Admission to the EECE Year 2 Transfer program

Corequisite: MATH 2110

Note: Credit will not be given for both PHYS 2150 and EPHY 2150

Required Lab: EPHY 2150L

EPHY 2200 3 credits

Electrical Properties of Materials (3,1,0)

This course provides an introduction to the fundamental properties of solids that govern the behavior of electronic and photonic devices. The mechanisms underpinning the electrical conductivity of conductors, semiconductors, and insulators, as well as their interactions with light are introduced and explained.

Prerequisite: EPHY 1250 or PHYS 1250

Corequisite: PHYS 2250 and MATH 2110

Required Seminar: EPHY 2200S

EPHY 2250 3 credits

Intermediate Electromagnetism (3,0,0)

Students examine and discuss vector algebra, electrostatics, magnetostatics, electric and magnetic fields in matter, and introductory electrodynamics for electrical and computer engineering.

Prerequisite: MATH 2110. Admission to the EECE Year 2.

Note: Credit will not be given for both PHYS 2250 and EPHY 2250

EPHY 2300 3 credits

Digital Electronics (3,0,3)(L)

This course is an introduction to Boolean algebra and logic gates; the analysis and the design of combinational and sequential digital circuits; and the architecture and programming of microcontrollers. Students design, assemble, and test digital logic circuits using discrete gates, FPGA's, and microcontrollers.

Prerequisite: PHYS 2150 with a minimum grade of C

Required Lab: EPHY 2300L

EPHY 2950 3 credits

Engineering Fundamentals (3,1,0)

This course is an introduction to the concepts of conservation of energy, energy balance, heat, and modes of heat transfer (conduction, convection, radiation). Transient and multi-dimensional conduction, multi-mode systems, and problem solving using numerical methods are also investigated.

Prerequisite: MATH 1230 or MATH 1240

Required Seminar: EPHY 2950S

EPHY 2990 3 credits

Introduction to ECE Design (3,0,3)

A project oriented course during which students work in teams to design, fabricate, and test products, devices, and systems relevant to Electrical and Computer Engineering. The course provides an opportunity for students to refine their skills in problem identification, development and evaluation of various technical solutions, estimation of their economic viabilities, and identification of possible ethical and legal constraints.

Prerequisite: MATH 1230 or MATH 1240, COMP 1520, EPHY 1990

Required Lab: EPHY 2990L

EPHY 3600 3 credits

Continuous-Time Signals and Systems (3,1,0)

This course is an introduction to continuous-time signals and systems. The theoretical concepts developed in the course are applied to the analysis of dynamical systems relevant to the practice of engineering. Applications to control theory and circuit analysis are studied. Realistic problems are solved numerically.

Prerequisite: MATH 1230 or MATH 1240, MATH 1300

Required Seminar: EPHY 3600S

ESAL 0120 3 credits

Basic Grammar (4,0,0)

Students learn basic forms of English Grammar including simple and progressive verb tenses, parts of speech, prepositions, and an introduction to modals. Students practice these structures through communicative and functional activities.

Prerequisite: Placement according to English placement test.

ESAL 0130 3 credits

Basic Integrated Language Skills (4,0,0)

This course offers integrated skills with an emphasis on improving English proficiency and understanding of Canadian culture. It includes continued practice in listening, speaking, pronunciation, vocabulary building, grammar, reading, writing and learning strategies. It also includes using computer technology and university and community resources.

Prerequisite: Placement according to English Placement test

ESAL 0140 8 credits

Integrated Oral Skills (16,0,0)

This course is designed to integrate basic English oral skills with academic study skills. Students practice listening, speaking, pronunciation, and vocabulary as well as North American learning strategies. These skills will be taught through a communicative approach.

Prerequisite: Placement according to English placement test.

ESAL 0150 3 credits

Basic Oral Communication (4,0,0)

Through listening comprehension and oral performances, students practice their communication skills. Students learn to comprehend the main ideas in short passages and listen for specific detail as well as engage in short conversations, report personal information, and express opinions.

Prerequisite: Placement according to English placement test.

ESAL 0160 4 credits

Integrated Written Skills (8,0,0)

Students focus on basic reading and writing skills. The course places emphasis on introduction to simple vocabulary, sentence structure, punctuation, as well as reading comprehension. Concurrently, to facilitate cultural adaptation, students are introduced to common themes and issues in Canadian life through the course readings.

Prerequisite: Placement according to English placement test.

ESAL 0170 3 credits

Basic Reading Skills (4,0,0)

This course focuses on reading strategies. Emphasis is on vocabulary growth and comprehension and expression of the main idea. Students develop study and reading skills such as pre-reading and reading rate strategies.

Prerequisite: Placement according to English Placement test

ESAL 0180 3 credits

Basic Writing Skills (4,0,0)

This course will focus on writing strategies. Emphasis will be on development of sentence structure and sentence variety to the paragraph level. Students will also be introduced to the paragraph form, including expression of the main idea in topic sentences.

Prerequisite: Placement according to English Placement test

ESAL 0184 1 credits

Writing Enrichment Lab - Level 1 (0,0,3)(L)

This lab is a supplemental class designed to support the acquisition of writing in the English language at a high-beginner level. The purpose of the lab is to support ESAL 0180 which is a high-beginner writing class and to provide extra help for students with vocabulary development, spelling, sentence structure, and rhetorical styles.

Prerequisite: Placement by the Accuplacer English Placement test at Level 1 for writing

Corequisite: ESAL 0180

ESAL 0220 3 credits

Pre-Intermediate Grammar (4,0,0)

This course is intended to assist students in improving and practicing their spoken English and written grammar. Students study past, present and future verb tenses in the simple, progressive and perfect forms. Students also study phrasal verbs, comparatives, prepositions, modals, determiners, articles, and agreement.

Prerequisite: Satisfactory completion of ESAL 0120 (C+ or better) or placement according to English placement test

ESAL 0230 3 credits

Pre-Intermediate Integrated Language Skills (4,0,0)

This course integrates language skills with an emphasis on improving English proficiency and understanding of Canadian culture. It includes continued practice in listening, speaking,

pronunciation, vocabulary building, grammar, reading, writing and learning strategies. Students also use computer technology, and university and community resources.

Prerequisite: Satisfactory completion of ESAL 0130 (C+ or better) or placement according to English placement test

ESAL 0250 3 credits

Pre-Intermediate Oral Skills (4,0,0)

Students improve their communication skills by developing their listening and speaking skills.

Prerequisite: Satisfactory completion of ESAL 0150 (C+ or better) or placement according to English placement test.

ESAL 0270 3 credits

Pre-Intermediate Reading Skills (4,0,0)

This reading course continues to strengthen basic skills of vocabulary development and comprehension with a variety of written material of gradually increasing difficulty. The objective is to progress from mechanical to more meaningful reading.

Prerequisite: Satisfactory completion of ESAL 0170 (C+ or better) or placement according to English placement test.

ESAL 0280 3 credits

Pre-Intermediate Writing Skills (4,0,0)

This introductory composition course for second language students focuses on recognizing and practicing grammatical structures and sentence patterns, within the familiar thematic context of shared personal and cultural experience. Pre-writing and revision strategies are introduced.

Prerequisite: Satisfactory completion of ESAL 0180 (C+ or better) or placement according to English placement test.

ESAL 0284 1 credits

Writing Enrichment Lab - Level 2 (0,0,3)(L)

This lab is a supplemental class designed to support the acquisition of writing in the English language at a pre-intermediate level. The purpose of the lab is to support ESAL 0280 which is a pre-intermediate writing class and to provide extra help for students with vocabulary development, spelling, sentence structure, and rhetorical styles.

Prerequisite: Satisfactory completion of ESAL 0180 (C+ or better) or placement according to English placement test.

Corequisite: ESAL 0280

ESAL 0320 3 credits

Intermediate Grammar 1 (4,0,0)

Within the relevant academic contexts, a variety of difficult structures in English grammar are examined and practiced both orally and in written work. Structures include the tense aspect system; phrasal verbs; modal meanings, and the use of prepositions.

Prerequisite: Satisfactory completion of ESAL 0220 (C+ or better) or placement according to English placement test.

ESAL 0340 3 credits

Intermediate Grammar 2 (4,0,0)

Within the relevant academic contexts, a variety of increasingly difficult structures in English grammar are examined and practiced for a better understanding of their uses. Structures include articles, count and non-count nouns and expressions of quantity, subject-verb agreement, the passive voice, gerunds and infinitives, and conditional sentences.

Prerequisite: Satisfactory completion of ESAL 0220 (C+ or better) or placement according to English placement test.

ESAL 0350 3 credits

Intermediate Oral Communication (4,0,0)

This course is designed to enable students to refine conversational skills for the purpose of participating in academic discussions. This course focuses on acquiring strategies for effective oral communication. Students participate in group discussions, give oral presentations and practice their listening skills.

Prerequisite: Satisfactory completion of ESAL 0230 and ESAL 0250 (C+ or better) or placement according to English placement test.

ESAL 0370 3 credits

Intermediate Reading and Study Skills (4,0,0)

Students continue to develop their vocabulary and build comprehension with a variety of reading selections of increasing difficulty. Reading materials include those selected by students and provide the basis for discussion, writing activities, study skill practice, and testing.

Prerequisite: Satisfactory completion of ESAL 0270 (C+ or better) or placement according to English placement test

ESAL 0380 3 credits

Intermediate Composition (4,0,0)

This writing course focuses on academic paragraph writing. Various forms and purposes for paragraph writing are analyzed and practiced. Sentence skills are reviewed and essay writing is introduced.

Prerequisite: Satisfactory completion of ESAL 0280 (C+ or better) or placement according to English placement test.

ESAL 0384 1 credits

Writing Enrichment Lab - Level 3 (0,0,3)(L)

This lab is a supplemental class designed to support the acquisition of writing in the English language at an intermediate level. The purpose of this lab is to support ESAL 0380: Intermediate Composition, and to provide extra support for students with vocabulary development, spelling, sentence structure, and rhetorical styles.

Prerequisite: Satisfactory completion of ESAL 0280 (C+ or better) or placement according to English placement test.

Corequisite: ESAL 0380

ESAL 0420 3 credits

Advanced Grammar (4,0,0)

The purpose of this course is to support advanced academic writing, by developing and refining the grammar and editing skills necessary to detect and remedy common ESL writing problems. While the focus is on accuracy, this course also includes logical analysis of the components of a composition, and editing for improved clarity and effectiveness.

Prerequisite: Satisfactory completion of ESAL 0320 and ESAL 0340 (C+ or better) or placement according to English placement test.

ESAL 0450 3 credits

Advanced Oral Communication (4,0,0)

Students practice strategies for speaking clear and appropriate English in a variety of academic situations. Attention to fluency, pronunciation, and intonation is emphasized.

Prerequisite: Satisfactory completion of ESAL 0350 (C+ or better) or placement according to English placement test.

ESAL 0470 3 credits

Advanced Reading and Study Skills (4,0,0)

This course includes a wide range of fictional and nonfictional reading. Emphasis is on the analysis and evaluation of form and content as well as on pre-reading strategies and vocabulary development. Study skills include note-taking, paraphrasing, and summarizing.

Prerequisite: Satisfactory completion of ESAL 0370 (C+ or better) or placement according to English placement test.

ESAL 0480 3 credits

Advanced Composition (4,0,0)

This course reviews the paragraph as a component of the English essay. Emphasis is on the planning, development, and revision of multi-paragraph compositions. Students focus on specific problems with their writing and practice editing.

Prerequisite: Satisfactory completion of ESAL 0380 (C+ or better) or placement according to English placement test.

ESAL 0570 3 credits

Academic Reading Skills (4,0,0)

This course is designed to prepare students for reading university level material effectively and efficiently. Specific approaches to reading are taught for factual and fictional writing. Emphasis is on the short story.

Prerequisite: Satisfactory completion of ESAL 0450 and ESAL 0470 (C+ or better) or placement according to English placement test.

Note: ESAL 0450 may also be taken as a corequisite.

ESAL 0580 4 credits

Academic Writing (6,0,0)

This course focuses on the process of writing. However, integral to the writing process are the skills of reading and listening, actively and critically. Collaboration and teamwork are important components of this course, as well. These skills enhance writing ability and also contribute generally to success in both education and employment. Students are expected to read, research, discuss, and work co-operatively, as part of the composition process.

Prerequisite: Satisfactory completion of ESAL 0420 and ESAL 0480 (C+ or better) or placement according to English placement test.

Corequisite: ESAL 0420

ESAL 0620 3 credits

Advanced Grammar for Business (4,0,0)

The purpose of this course is to support students who are planning to enter or who are currently enrolled in a post-baccalaureate business related course, by developing and refining the grammar and editing skills necessary to

detect and remedy common English as a Second Language writing problems. While the focus is on accuracy, this course also includes logical analysis of the components of business writing, and editing for improved clarity and

effectiveness.

ESAL 0640 3 credits

Preparation for the TOEFL iBT - Level 1 (4,0,0)

Designed for high-beginner students, this course assists Level 1 students in their preparation for standardized tests of English as a Second Language. Students study the format of standardized tests of English as a Second Language and develop strategies for answering commonly asked questions. Students are also encouraged to draw upon the skills they are learning in their other courses.

Prerequisite: Placement according to English placement test in Level 1.

ESAL0 0650 3 credits

Advanced Oral Communication for Business (4,0,0)

The purpose of this course is to support English as a Second Language students who are planning to enter or who are currently enrolled in a post-baccalaureate business related course. Students practice strategies for production and

reception of appropriate English for a variety of business situations that will be required for successful participation in a post-baccalaureate program. Attention to oral fluency and accuracy as well as listening comprehension are emphasized.

Prerequisite: ESAL 0450 with C+ or better or Placement according to English Placement Test

Prerequisite: Conditional acceptance to a post-baccalaureate program

ESAL 0670 3 credits

Advanced Reading for Business (4,0,0)

The purpose of this course is to support English as a Second Language students who are planning to enter or who are currently enrolled in a post-baccalaureate business related course. This course focuses on specific skills related to a

variety of complex business readings. Students will participate in activities involving reflection, group discussions, and reading assignments. This course will further develop students' reading skills to enable their success in a

post-baccalaureate program.

Prerequisite: ESAL 0570 with C+ or better OR Placement according to English placement test

Prerequisite: Conditional acceptance to a post-baccalaureate program

ESAL 0680 3 credits

Advanced writing for business (4,0,0)

The purpose of this course is to support English as a Second Language students who are planning to enter or who are currently enrolled in a post-baccalaureate business related course. This course focuses on specific writing skills related to a variety of rhetorical business patterns. This course will further develop students' composition skills to enable their success in a post-baccalaureate program.

Prerequisite: ESAL 0580 with C+ or better OR placeemnt according to an English Placement Test

Prerequisite: Conditional acceptance to a post-baccalaureate program

ESAL 0740 3 credits

Preparation for TOEFL iBT - Level 2 (4,0,0)

Designed for pre-intermediate students, this course assists Level 2 students in their preparation for standardized tests of English as a Second Language. Students study the format of standardized tests of English as a Second Language and develop strategies for answering commonly asked questions. Students are also encouraged to draw upon the skills they are learning in their other courses.

Prerequisite: Satisfactory completion (C+ or better) of ESAL Level 1 or placement according to English placement test.

ESAL 0820 3 credits

Intermediate Listening (4,0,0)

Students are provided opportunities to practice their listening skills in the performance of a variety of increasingly challenging tasks. Students acquire strategies to improve their comprehension of the varieties of English encountered in social and academic environments.

Prerequisite: Satisfactory completion (C+ or better) of Level 2 ESAL or placement according to English placement test.

ESAL 0840 3 credits

Preparation for TOEFL iBT - Level 3 (4,0,0)

Designed for intermediate students, this course assists Level 3 students in their preparation for standardized tests of English as a Second Language. Students study the format of standardized tests of English as a Second Language and develop strategies for answering commonly asked questions. Students are also encouraged to draw upon the skills they are learning in other courses.

Prerequisite: ESAL 0220 andwith a minimum grade of 65% ESAL 0230 and ESAL 0250,with a min grade of 65% ESA 0270,with a min grade of 65% ESAL 0280 orwith a min grade of 65% a level 3 standing on the English Placement Test

ESAL 0860 3 credits

Intermediate Vocabulary for Academic English (4,0,0)

An elective designed for intermediate students, this course is useful for any intermediate student taking or planning to take academic courses. Students are introduced to specific words that are useful in a wide range of academic disciplines. Both the active and passive use of vocabulary is emphasized.

Prerequisite: ESAL 0250, ESAL 0270,with a min of 65%, or a level 3 standing on the English Placement test.

ESAL 0880 3 credits

Intermediate Pronunciation (4,0,0)

For intermediate learners of English, this course is designed to improve the comprehension of spoken English, and intelligibility when speaking English. It helps students develop auditory sensitivity and improve accuracy, fluency, and confidence in their oral production of English. Phonological features are examined in isolation and in the context of meaningful passages.

Prerequisite: Satisfactory completion (C+ or better) of Level 3 ESAL or placement according to English placement test. "

ESAL 0920 3 credits

Advanced Listening Skills (4,0,0)

This course builds on previously developed listening skills. The course focuses on the listening skills required to process an academic lecture. Students identify the ideas and organization of lecture material, discussions, and debate, using specific listening skills. The information students hear is used for note-taking and other related activities.

Prerequisite: ESAL 0350 with a C+ minimum or placement according to English placement test.

ESAL 0940 3 credits

Preparation for the TOEFL (4,0,0)

Designed for high-intermediate to advanced students, students are assisted in their preparation for standardized tests of English as a Second Language. Students study the format of standardized tests of English as a Second Language and develop strategies for answering commonly asked questions.

Students also are encouraged to draw upon the skills they are learning in other courses.

Prerequisite: Satisfactory completion (C+ or better) of Level 3 ESAL or placement according to English placement test.

ESAL 0950 3 credits

Advanced English for Business Communication (4,0,0)

This course is intended to prepare ESL students who are planning to enter or who are currently enrolled in a business related course. This course offers the opportunity to work on all four basic communicative skills (listening, speaking, reading, and writing) while using the vocabulary and specialized requirements of business communications. Students develop and apply advanced technological skills as well.

Prerequisite: Satisfactory completion (C+ or better) of Level 4 ESAL or placement according to English placement test.

ESAL 0960 3 credits

Advanced Vocabulary for Academic English (4,0,0)

An elective designed for advanced students, this course is useful for any student for whom the vocabulary of academic English presents a challenge. This course introduces and reinforces strategies for becoming independent learners of vocabulary, and also teaches specific words useful in academic study. Vocabulary is linked with general knowledge to provide context as well as to add interest. While passive vocabulary (word recognition) is emphasized, the course also facilitates active use of new vocabulary.

Prerequisite: Completion of ESAL 0350 and 0370 with a minimum grade of 65%, or a Level 4 standing on the English Placement Test

ESAL 0980 3 credits

Advanced Pronunciation (4,0,0)

For high-intermediate to advanced learners of English, this course is designed to improve the comprehension of spoken English, and intelligibility when speaking English. Students develop skills to assist them in predicting, producing, and perceiving the pronunciation of words and phrases. Students at the university level whose goals demand above-average oral skills and a wide range of active vocabulary will find this course particularly relevant and valuable.

Prerequisite: ESAL 0350 and ESA 0370,with a min grade of 65%, or a level 4 standing on the English Placement test.

ESAL 0990 3 credits

Special Topics in Language Study (4,0,0)

This course provides an in-depth exploration of aspects of the English languge and surrounding culture. The specific content and focus is determined in the semester prior to its being offered. (Information is available from the Department Chair or International Student Advisor.)

Prerequisite: Satisfactory completion (C+ or better) of Level 3 ESAL or placement according to English placement test.

ESTR 0010 3 credits

Workplace Communication (4,0,0)

This is a course in interpersonal communication. Students will learn the importance of communication in the work environment. Students will be given the opportunity to learn to use communication skills effectively. Listening, speaking and comprehension skills will be taught and practiced. Students will learn assertiveness skills, anger management skills and how to accept feedback constructively.

Prerequisite: Admission into Educational Skills and Training Certificate Program

ESTR 0020 3 credits

Workplace Employability (5,0,0)

This course begins by describing those skills needed by an effective and reliable employee. The following topics are covered in detail: grooming and hygiene, honesty, job relationships, punctuality, following directions, motivation and productivity. The emphasis is on maintaining those skills needed to keep a job. Students will be evaluated on their ability to demonstrate these skills.

Prerequisite: Admission into Educational Skills and Training Certificate Program

ESTR 0060 3 credits

Health and Safety (4,0,0)

In this course, students will learn about health and safety as it relates being safe and successful in the workplace. Topics include nutrition, wellness, back safety, fire safety, and Workplace Hazardous Materials Information Systems. Students will learn in an interactive setting aimed to allow the concepts covered in class to be integrated into their present lifestyle.

Prerequisite: Admission into Educational Skills and Training Certificate Program

ESTR 0070 3 credits

Job Search and Maintenance (5,0,0)

This course will present skills needed in order to conduct a job search and prepare for job interviews. Students will learn networking skills; prepare job applications, a resume, cover and thank you letters. The students will be made aware of self advocacy skills and be connected to any local agencies that would be able to assist them in their job search.

Prerequisite: Admission into Educational Skills and Training Certificate Program

ESTR 0080 3 credits

Workplace English and Written Communications (4,0,0)

This course focuses on the reading and writing skills needed in a workplace environment. The content of the course is individualized to met the needs of the student and is also related to their area of occupational skills training (kitchen, retail or automotive). Materials that offer the student the opportunity to locate relevant information, understand and read the information and complete applicable writing tasks are provided.

Prerequisite: Completion of Education Skills Training general courses

ESTR 0090 3 credits

Workplace Mathematics (4,0,0)

Students develop the math skills required in a workplace environment. The course content is individualized to meet the needs of students, and related to their area of occupational skills training (kitchen, retail or automotive worker). The topics include measurement, fractions, percent, and money.

Prerequisites: Students must complete the Career Exploration option or achieve a Level 4 Reading level on the Brigance Inventory of Basic Skills.

ESTR 0100 3 credits

Practical Experience 3 (0,0,20)

Students in the career educational stream of the Educational Skills Training Program are required to complete the program with a six-week practicum in an organization or business related to their field of interest. Students perform

the duties of an entry-level employee; work experience opportunities are designed to accommodate the needs of students and employers. A work experience coordinator monitors individual students.

Prerequisite: Admission into Educational Skills and Training Certificate Program and ESTR 0160

ESTR 0110 5 credits

Practical Experience 2 (0,0,20)

Students complete the Educational Skills Training Program with a six-week practicum in a business related to their field of training (Kitchen, Retail or Automotive). Students will be required to work at least 20 hours per week and perform the functions of an entry-level employee. Students are expected to demonstrate the skills learned in the program. Students must successfully complete the practicum in order to graduate from the program.

Prerequisite: Admission into Educational Skills and Training Certificate Program, and ESTR 0320, or ESTR 0340 or ESTR 0350

ESTR 0120 3 credits

Self and Community Awareness (5,0,0)

Students explore their personal values and goals with regards to being successful in a work environment. A variety of self-assessments and self-discovery tools are completed to determine the field to which students are best suited. Students then develop a vocational plan that outlines their future plans. Completion of the vocational plan is a requirement for the Career Awareness course.

Prerequisite: Admission into Educational Skills and Training Certificate Program

ESTR 0130 3 credits

Workplace Academics 1 (5,0,0)

Students improve their skills in literacy and numeracy as it relates to the workplace. The instruction is individualized; students are challenged at their level of competence. Topics include reading and following directions, work vocabulary, taking messages, using a calculator, and money skills. Students are evaluated on their ability to demonstrate their skills and show improvement in literacy and numeracy.

Prerequisite: Admission into Educational Skills and Training Certificate Program

ESTR 0140 3 credits

Workplace Academics 2 (5,0,0)

This course is a continuation of ESTR 0130: Workplace Academics 1. Students increase their competency in math, and reading and writing skills. The instruction in this course is individualized; students are challenged at their level of competence. Topics include measurement using the metric system, finding and reading information, and writing simple messages and letters. | Prerequisite: ESTR 0130

ESTR 0150 3 credits

Career Awareness (5,0,1)

Students examine the skills and profiles of entry- level occupations to assist in their choice of occupations to consider. Students compare the skills, abilities, and knowledge required for different jobs to their own skills, abilities and knowledge, and complete a job and self-assessment of their chosen occupation. In order to complete the course, students must develop a personal vocational plan that outlines their immediate goals and a five-year plan.

Prerequisite: Admission into Educational Skills and Training Certificate Program and ESTR 0120

ESTR 0160 5 credits

Introduction to the Workplace, Practical Experience (0,0,20)

Students select an entry-level placement that matches their interests and abilities. The placement is four weeks in length, with a maximum of 20 hours per week, determined by a discussion with the student and the employer. Students have an opportunity to further develop good work habits and the skills required for successful employment.A work experience coordinator monitors individual students.

Prerequisite: Admission into Educational Skills and Training Certificate Program

ESTR 0210 3 credits

Kitchen Theory 1 (3,0,3)

Food theory concepts are explored in a classroom setting and in a kitchen laboratory. Students develop practical kitchen skills in a safe environment, in which safety and sanitary procedures are emphasized.

Prerequisites: Students must complete the Career Exploration option or achieve a Level 4 Reading level on the Brigance Inventory of Basic Skills.

ESTR 0220 2 credits

Kitchen Experience 1 (0,0,6)

Students are introduced to the skills needed to work in a commercial kitchen, such as learning to follow directions, organizing work, and being a team member.Students are also instructed in kitchen clean-up, sanitation, basic food preparation, and the use of

kitchen equipment and machines. Safety is stressed in this course.

Prerequisites: Students must complete the Career Exploration option or achieve a Level 4 Reading level on the Brigance Inventory of Basic Skills.

ESTR 0230 3 credits

Automotive Theory 1 (3,0,3)

Students are trained in the safety procedures required in the Automotive Service Industry, in order to recognize and avoid dangerous situations. Students are taught the use of essential hand tools, and make a tool that they can add to

their toolbox. The automobile systems discussed in this course enable students to understand the basic workings of a car. These skills and information contribute towards fulfilling students' employment goals in this field.

Prerequisites: Students must complete the Career Exploration option or achieve a Level 4 Reading level on the Brigance Inventory of Basic Skills.

ESTR 0240 2 credits

Automotive Experience 1 (0,0,6)

Students learn safety procedures in an automotive shop before they are trained in, and practice, the use of essential hand tools to complete several projects in the shop. The basic automotive systems discussed in the theory course are demonstrated on a vehicle in the shop. The major shop activities include completing tire service, oil changes and detailing.

Prerequisite: Admission into Educational Skills and Training Certificate Program. Students must complete the Career Exploration option or achieve a Level 4 Reading level on the Brigance Inventory of Basic Skills.

ESTR 0250 3 credits

Retail Theory 1 (3,0,3)

Students are instructed in the skills required to work successfully in a retail environment. Topics include teamwork and customer-relations skills. Students also learn the importance of organization, and skills related to the organization of retail merchandise. Students also cultivate money skills, including counting money accurately and counting back change.

Prerequisite: Admission into Educational Skills and Training Certificate Program. Students must complete the Career Exploration option or achieve a Level 4 Reading level on the Brigance Inventory of Basic Skills. Students need to be able to count money accurately.

ESTR 0260 2 credits

Retail Experience 1 (0,0,6)

This course reinforces the theory component with hands-on experience in a real work environment. Students practice general clean-up, shelving, merchandising, and inventory control. Students are expected to demonstrate appropriate communication skills, teamwork, and time management in the work setting.

Prerequisite: Admission into Educational Skills and Training Certificate Program. Students must complete the Career Exploration option or achieve a Level 4 Reading level on the Brigance Inventory of Basic Skills. Students need to be able to count money accurately.

ESTR 0310 3 credits

Kitchen Theory 2 (3,0,3)

This course is a continuation of the Fall semester, ESTR 0210: Kitchen Theory I. Students extend their practical kitchen work skills and test their knowledge in a kitchen laboratory. Food groups are discussed, and students prepare food according to relevant recipes. Accurate measurement, organization, and following directions is emphasized. Students prepare to write the Food Safe Certification.

Prerequisite: ESTR 0220

ESTR 0320 2 credits

Kitchen Experience 2 (0,0,6)

Students continue to work in commercial kitchens, where they are familiarized with the daily procedures and develop the necessary speed to perform routine commercial kitchen tasks.

Prerequisites: ESTR 0220

ESTR 0330 3 credits

Automotive Theory 2 (3,0,3)

Students review safety procedures in the automotive shop. Topics include the basic systems in the automobile such as the exhaust system, steering, lubrication, and brakes. The use of air impact tools is introduced, and shop maintenance

is considered to help students fit into the shop environment.

Prerequisite: ESTR 0230

ESTR 0340 2 credits

Automotive Experience 2 (0,0,6)

Students review safety procedures in an automotive shop. Air impact tools are introduced and students practice using them, while the basic automotive systems are studied in more detail and demonstrated on a vehicle in the shop. The major shop activities include completing tire service, oil changes, and interior and exterior detailing. Students continue to work on their speed and accuracy.

Prerequisite: ESTR 0240

ESTR 0350 3 credits

Retail Theory 2 (3,0,3)

Students continue to learn retail concepts and skills, such as telephone skills, sales techniques, and small business planning. Students also further cultivate their money skills, including the use of a cash register, completing cash register reports, and calculating sales tax, mark-ups and mark-downs.

Prerequisite: ESTR 0250

ESTR 0360 2 credits

Retail Experience 2 (0,0,6)

This course is a continuation of the Fall semester, ESTR 0260: Retail Experience I. Students are given an opportunity to improve the quality and speed of their duties, while gaining more experience in inventory control and merchandising. Students use a Point of Sale System (POS), and learn pre-inventory preparation.

Prerequisite: ESTR 0260

ESTR 0370 3 credits

Advanced Topics in Job Selection and Job Search (3,0,0)

This course is intended for those students who have completed the core courses of the ESTR program and are continuing in one of the occupational skills training areas. Students will learn to research and evaluate a business in terms of it relating to the students personal interests, skills and chances of long-term success. Students will also review and enhance their job search skills including their resume, interview techniques, and following up after interviews and after a temporary lay off.

Prerequisite: Admission into the ESTR program. Successful completion of four core courses: ESTR 0010, ESTR 0020, ESTR 0060 and ESTR 0070.

ESTR 0380 3 credits

Advanced Topics in Workplace Success (3,0,0)

This course is intended for those students who have completed the core courses of the ESTR program and are continuing in one of the occupational skills training areas. Emphasis on topics that will enhance an individual's ability to keep a job and plan for long term career success will be emphasized. Students will learn what today's employers expect of their employees and how to behave to be able to meet these demands successfully.

Prerequisite: Admission into the ESTR program. Successful completion of four core courses: ESTR 0010, ESTR 0020, ESTR 0060 and ESTR 0070.

EVNT 1100 3 credits

The World of Events (3,0,0)

Students are introduced to the exciting world of events with a global snapshot of the modern events sector. Students gain insight into various genres and types of events, current trends, technology, management challenges, and best practices in delivering meaningful and memorable events.

Prerequisite: English 12/English 12 First Peoples with a minimum of 73% (within the last five years), or Level 4 on the composition section of the LPI (within the last two years), or completion of ENGL 0600, or completion of ESAL 0570 and ESAL 0580 with a grade of C+ or better

EVNT 2070 3 credits

Staging Special Events (3,0,0)

Students are introduced to the skills and terminology of the technical aspects of staging festivals, special events, concerts and conventions. Students are exposed to some of the fundamentals of staging including conception, design, delivery, logistics, lighting, and sound systems through a hands-on experience of staging an actual event.

Prerequisite: EVNT 2240 or EVNT 2260

EVNT 2100 3 credits

Conference Management (3,0,0)

Students develop the knowledge and understanding necessary to plan, organize, manage and evaluate events primarily associated with meetings, conferences, and incentive travel. Students engage in objective setting, team building and program planning.

Course topics include management functions such as transportation arrangements, selection of speakers, audio-visual arrangements, and risk management issues in the convention sector.

Prerequisite: EVNT 1100

EVNT 2170 3 credits

Fundraising for Non-Profit Organizations (3,0,0)

Students learn the basic skills needed to conduct a fundraising campaign on behalf of a non-profit organization. In addition to discussions about the origins and evolution of philanthropy, students are

exposed to various campaign models, public relations strategies and techniques for motivating volunteers.

Prerequisite: TMGT 1150 or equivalent

EVNT 2190 3 credits

Destination Marketing Organizations (3,0,0)

Using a convention and visitors bureau as a model, students learn the role that destination marketing organizations play in attracting all types of tourists to a city, region or country. In addition to learning about key market segments and how to attract them, students consider how destination marketing organizations are structured and funded.

Prerequisite: TMGT 1150 or equivalent

EVNT 2240 3 credits

Sports Event Management (3,0,0)

The intent of this course is to provide the learner with an overview of the sports tourism industry and to provide them with some of the basic tools needed to successfully plan a sporting event. Learners will be introduced to the sports event and sport tourism industries and be given the opportunity to explore such topics as risk management for sporting events, volunteer management and event sponsorship.

Prerequisite: EVNT 1100

EVNT 2250 3 credits

Sports Event Marketing (3,0,0)

This course is designed to introduce students to some of the skills necessary to effectively market a sporting event. Students will learn how to develop a plan to go after relevant markets including attendees, competitors and sponsors. In addition, students will be exposed to such business concepts as product development, market opportunities and marketing plans.

Prerequisite: TMGT 1150 or equivalent

EVNT 2260 3 credits

Managing Festivals and Events (3,0,0)

This course offers the basic skills needed for a business-like approach to planning and managing a well run, high quality special event. The focus of the course is on increasing organizational effectiveness and developing sound managerial strategies. Students explore practical subjects such as fundraising and sponsorship, managing volunteers, strategic planning, risk management, and post-event evaluation.

Prerequisite: EVNT 1100

EVNT 2500 3 credits

Field Experience (0,2,3P)

This course offers 2nd-year students the opportunity to connect academic course work with practical application by participating in a multi-day field experience where they have interaction and exposure to many facets of the events industry. Prior to engaging in the field experience, students participate in seminars to develop a deeper understanding of the aspects of the selected tours and visits , as well as to plan their travel itinerary within a budget. Upon return, students complete reflective oral and written assignments.

Prerequisite: Students must be enrolled in the 2nd year of the Event and Convention Management Diploma

Note: This course has an activity fee attached

EVNT 3800 3 credits

Event Logistics (3,0,0)

This is the first of two interconnected courses (together with EVNT 4800) that engages the student in a practical and applied manner in the staging of a large-scale special event. The course is organized around the core competencies required of an event professional such as programming, staging, volunteer management, on-site logistics, registration, hospitality and crowd safety. Emphasis is on real-time, real-world experience and learning outcomes, as students work collectively as a team to run an event property.

Prerequisite: Third-year standing

EVNT 4800 3 credits

Managing the Event Experience (3,0,0)

In this capstone course for the concentration in Festivals and Events in the Bachelor of Tourism Management, students will perform the role of event managers by providing the creative direction, strategic planning, and general oversight for a large-scale special event property . Students will take full responsibility for the successful implementation and realization of their event vision, including completing an extensive evaluation of the outcomes of the event.

Prerequisite: TMGT 3050 and either 4th year standing in the Bachelor of Tourism Management's concentration in Festivals and Events or 2nd year standing in the Post-Baccalaureate Diploma in Managing Festivals and Events

EXPL 3000 3 credits

Live Learn Lead: Global Engagement (0,1,4)

This field school course is designed using an experiential model to integrate leadership and global volunteerism within a blended learning experience. Through face-to-face seminars, discussions and reflective activities, combined with an intensive team volunteer experience abroad - in collaboration with a partner non-government organization (NGO) - students have the opportunity of developing global competencies and leadership skills needed to address global challenges in an ever-changing world. Through guided reflection students gain: a global cultural awareness and sensitivity; experiential learning and leadership competencies; a stronger understanding of NGO operations; and potential careers in international development.

Prerequisite: Students must have completed a minimum of 30 credits and have a minimum 2.33 Cumulative GPA at the time of application to the course. International students must have met TRU language proficiency requirements for their program of study at the time of application.

EXST 5220 3 or 9 credits

Thesis in Experience Studies

Students undertake an independent research project of relevance to experience studies, generating original theoretical contributions that advance the body of literature in this field.

FILM 1120 3 credits

Fundamentals of Camera Operation (4,0,0)

Students are instructed on the basic operation of cameras as they are used in the studio and on location. Camera fundamentals are explored through lectures, demonstrations, and screenings, in addition to practical work with the camera and editing equipment.

FILM 1180 3 credits

Introduction to Cinematic and Interactive Narrative (3,0,0)

This course examines the ways that narrative forms are used across both linear and non-linear modes of expression. Students explore the nature and styles of narrative as well as the difference between time-based and space-based narratives. The impact of interactive interfaces on narrative is also considered.

FILM 2100 3 credits

Introduction to Film Studies 1890-1938 (3,0,0)

Students examine significant trends and events in film history, between 1890-1938, by exploring film genres, film theory, national cinemas, Hollywood and cultural socialization, and film criticism.

FILM 2200 3 credits

Introduction to Film Studies 1938 - Present (3,0,0)

This course explores significant trends and events throughout the history of film. Students are introduced to the early, exuberant period of film, and then shift focus to study the evolution of the medium; in particular, the relationship between Hollywood and world filmmaking trends. Texts by film theorists, film critics and filmmakers are accompanied by screenings of classic and contemporary films.

FILM 2300 3 credits

Special Topics in Film & Media Studies (3,0,0)

Students explore special topics covering introductory issues in Film and Media Studies. Specific topic(s) vary and could include emphasis on issues of genre, style, individual auteurs, time periods, national cinema or political economy.

FILM 3250 3 credits

Quebec Cinema in Translation (3,1,0)

This course will provide an introduction to issues and theories relevant to Quebec cinema and will focus on the representation of Quebec culture and society in major films from 1960 to the present. All films will be subtitled or dubbed in English. No prior knowledge of French is required.

Prerequisite: Completion of 45 credits (any discipline)

FILM 3300 3 credits

Special Topics in Media Studies (3,0,0)

Students explore special topics covering issues in Film and Media Studies. Specific topic(s) vary and could include emphasis on issues of genre, style, individual auteurs, time periods, national cinema, or political economy.

Prerequisite: 45 credits

FILM 3850 3 credits

Film Theory (3,0,0)

FILM 3850 explores the study of cinema by examining a number of theoretical approaches that have contributed to the understanding of film studies. Film theory, by its very nature, is polemic and this course will examine a variety of theoretical arguments, both historical and contemporary, that have been put forth by film scholars. Such theoretical frameworks include film spectatorship, ethnography, psychoanalytic analysis, ideology, feminism, film music and narrative, and postmodernism.

Prerequisite: FILM 2100/2200 or by instructor permission

FILM 4050 3 credits

Film Noir (3,0,0)

FILM 4050 examines the evolution of this often celebrated, but also contested body of films. The Film Noir canon has been defined by its highly visual style. Film historian Andrew Spicer (2002) comments: Film Noir designates a cycle of films that share a similar iconography, visual style (and) narrative strategies...their iconography or repeated visual patterning consists of images of the dark, night-time city, and streets damp with rain. The films are dominated thematically by existential and Freudian images of weak and hesitant males and predatory femmes fatales.

Prerequisite: Completed 45 credits (any discipline)

FILM 4100 3 credits

The American Frontier in Film, Television and Literature (3,0,0)

FILM 4100 examines the cinematic, television, and literary West as a reflection of the realities and unrealities of the American Frontier.

Prerequisite: Completed 45 credits (any discipline)

FILM 4140 3 credits

Films of the Cold War (3,0,0)

This course examines selected films that have become symbolic of the fear and paranoia associated with the Cold War.

Prequisites: Completed 45 credits (any discipline)

FNCE 2120 3 credits

Financial Management (3,0,0)

Students develop a basic understanding of business finance, which deals with how organizations effectively manage their operating and fixed assets and fund them with an optimal mix of debt and equity financing. Topics include the role of the financial manager; goals of the firm; financial statement analysis; time value of money; risk and return including beta and the capital asset pricing model; common and preferred share valuation; bond valuation and interest rates; capital budgeting; cost of capital; and optimal capital structure.

Prerequisite: ACCT 2210 (minimum C-); CMNS 1290 (minimum C-); MATH 1070 (minimum C-); ECON 2320 (minimum C-); or equivalent

Note: Students may not receive credit for more than one of FNCE 2120, FNCE 2121, FNCE 3120, BBUS 3120 or BBUS 3121

FNCE 3120 3 credits

Finance (3,0,0)

Students develop a basic understanding of business finance, which deals with how organizations effectively manage their operating and fixed assets and fund them with an optimal mix of debt and equity financing. Topics include the role of the financial manager; goals of the firm; financial statement analysis; time value of money; risk and return including Beta and the Capital Asset Pricing Model; common and preferred share valuation; interest rates and bond valuation; capital budgeting; cost of capital; and optimal capital structure.

Prerequisite: ACCT 2210 (minimum C-); CMNS 1290 (minimum C-); MATH 1070 (minimum C-); ECON 2320 (minimum C-); or equivalent

Note: Students may not receive credit for more than one of FNCE 3120, FNCE 2120, FNCE 2121, BBUS 3120 or BBUS 3121

FNCE 3140 3 credits

Financial Statement Analysis (3,0,0)

Students learn to read the complex financial statements of a major corporation and how to examine its performance using a variety of financial ratios and other assessment tools. Emphasis is placed on the quality of financial reporting and identifying the warning signs of financial manipulation. Topics include an overview of financial reporting; review of financial statement analysis techniques; complex income statements; complex cash flow statements; complex statements of financial position focusing on current assets and liabilities, long-term assets, income taxes, post-employment and share-based compensation, intercorporate investments; and multinational operations.

Prerequisite: FNCE 2120 (minimum C+) or equivalent

Note: Students may not receive credit for more than one of FNCE 3140 or BBUS 3140

FNCE 3150 3 credits

Portfolio and Equity Analysis (3,0,0)

Students examine the different types of financial assets, the markets in which they trade, and how investors structure these assets into diversified portfolios to meet their financial objectives. Emphasis is placed on the valuation of equity securities. Topics include an introduction to risk and return; types of securities and the investment process; mutual funds; stock market and common stock valuation; stock price behaviour, market efficiency, and behavioral finance; technical analysis; fundamental analysis; return, risk and security market line; and portfolio management and performance evaluation.

Prerequisite: FNCE 2120 (minimum C+); ECON 2330 (minimum C-); or equivalent

Note: Students may not receive credit for more than one of FNCE 3150, FNCE 3151, BBUS 3150 or BBUS 3151

FNCE 3170 3 credits

Fixed Income and Alternative Investments (3,0,0)

Students learn to design and analyze fixed income securities and alternative investment products particularly real estate. The importance of interest rates, credit risk and product features in the valuation of these assets is emphasized. Topics include an introduction to fixed income investments; fixed income markets; yield curves; bond pricing, valuation and volatility; credit analysis for firms and individuals; asset backed securities; real estate; hedge funds and private equity.

Prerequisite: FNCE 2120 or FNCE 2121 (minimum C+ grade) or and ECON 2330 or ECON 2331 (minimum C- grade) or equivalent

Note: Students cannot receive credit for more than one of FNCE3170; FNCE 3171; BBUS 4150; BBUS 4151

FNCE 3180 3 credits

Derivative Securities (3,0,0)

Students learn to value the main types of derivative securities and how to effectively utilize them in risk management, asset speculation and financial engineering. Topics include an introduction to forward and futures markets and hedging; mechanics of future markets; hedging with future contracts; theoretical and forward prices; introduction to options; calculating option contract profits; put-call parity and arbitrage bounds; option pricing models; exotic options; and swaps.

Prerequisite: FNCE 2120 (minimum C+ grade) and ECON 2330 (minimum C- grade) or equivalent

Note: Students cannot receive credit for more than one of FNCE 4170 or FNCE 3180

FNCE 3190 3 credits

Personal Financial Services (3,0,0) 3 credits

Students are introduced to the operation of the financial services industry, the products and services available, and how they are effectively marketed to satisfy the needs of consumers. Topics include an overview of the financial services industry; career progression as a financial representative; branch operations and online banking; types of bank accounts and foreign exchange services; types of consumer credit including residential mortgages, credit cards, vehicle loans and leasing, personal loans, home equity loans, lines of credit, student loans, and Registered Retirement Saving Plan loans; mortgage lending; credit assessment and calculating the cost of borrowing; responsible use of credit and personal bankruptcy; overview of business financial services; personal, need and financial assessment of clients; marketing financial services; and customer service.

Prerequisite: FNCE 2120, BLAW 2910 and MKTG 2430 (minimum C- grades) or equivalent

FNCE 4110 3 credits

Advanced Financial Management for Accountants (3,0,0)

Building on FNCE 2120: Financial Management, students majoring in accounting further develop the knowledge and skills in business finance required for admission to the Chartered Professional Accountant program. Topics include dividend policy; maturity matching of assets and liabilities; short-and long-term financial planning; working capital management; sources of temporary and permanent financing; advanced capital budgeting; business valuation; mergers and acquisitions and corporate restructuring; bankruptcy, liquidation, and reorganization; and risk management.

Prerequisite: FNCE 2120 (minimum C+); ECON 2330 (minimum C-); or equivalent

Note: Students may not receive credit for more than one of FNCE 4110, FNCE 4120, FNCE 4130, BBUS 4120 or BBUS 4130

FNCE 4120 3 credits

Business Valuation and Restructuring (3,0,0)

Students learn how to value a business using commonly applied industry techniques and to restructure its operations in order to optimize performance or cope with financial distress. Topics include professional designations in business valuation; advanced cost of capital; business valuation techniques, such as income, market multiples, and asset-based approaches; valuing private companies; mergers and acquisitions; financial distress, bankruptcy, reorganization, and liquidations; divestitures, spin-offs and other forms of corporate restructuring.

Prerequisite: FNCE 3150 (minimum C- grade) or equivalent

Note: Students cannot receive credit for FNCE 4110 and FNCE 4120

FNCE 4130 3 credits

Advanced Financial Management (3,0,0)

Building on FNCE 2120: Financial Management, students further develop their knowledge and skills in business finance. Topics include corporate governance and executive/director compensation; dividends and dividend policy; matching the maturities of assets and liabilities; short-term and long-term financial planning; sustainable growth; working capital management and sources of temporary financing; sources of permanent financing; advanced capital budgeting under uncertainty; and optimal capital structure.

Prerequisite: FNCE 2120 (minimum C+) or equivalent; ECON 2330 (minimum C-); or equivalent

Exclusions:FNCE 4110 or BBUS 4130

FNCE 4140 3 credits

Personal Financial Management (3,0,0)

Students acquire skills to identify, structure, and resolve financial planning problems. Multiple analytical tools and tax planning strategies are used in addressing various financial planning issues. Topics include an overview of a financial plan; applying time of money concepts; planning with personal financial instruments; banking services and money management; assessing, managing, and securing credit; personal loans; purchasing and financing a home; auto and homeowner's insurance; health and life insurance; investing fundamentals; investing in stocks, bonds, and mutual funds; retirement planning; and estate planning.

Prerequisite: BLAW 2910 (minimum C-); FNCE 3150 (minimum C-); ACCT 3260 (minimum C-); or equivalent

Note: Students may not receive credit for more than one of FNCE 4140, FNCE 4150, BBUS 4140 or ECON 3090

FNCE 4150 3 credits

Personal Wealth Management (3,0,0) 3 credits

Students learn to analyze the financial and insurance needs of potential clients and how to develop a plan that protects them from risk and helps achieve their financial objectives. Topics include government sponsored benefit plans; personal insurance products; deferred income plans; budgeting and personal financial statements; investment policy statement; investment products; investment strategies; investment income and tax planning; family law; wealth transfer including wills, trusts, and estates; professional ethics; and developing a comprehensive financial plan.

Prerequisite: FNCE 3190 (minimum C-) or equivalent

FNCE 4160 3 credits

Advanced Portfolio Management (3,0,0)

Students learn to design and implement an investment policy statement for an individual or institutional investor that establishes their financial objectives, risk tolerances, constraints, and investment and monitoring policies. Topics include setting investment objectives and policies; ethical standards and fiduciary duties; capital markets expectations; diversification and asset allocation; fixed-income, equity and alternative investment portfolio management; risk management; capital markets and securities trading; monitoring and rebalancing; and evaluating portfolio performance.

Prerequisite: FNCE 3150, FNCE 3170 and FNCE 3180 (minimum C- grades) or equivalent

Note: Students may not receive credit for more than one of FNCE 4160 or BBUS 4160

FNCE 4180 3 credits

International Financial Management (3,0,0)

Students examine the international aspects of corporate finance and investing. Topics include the international monetary system, balance of payments, the market for foreign exchange, international parity relationships and forecasting foreign exchange rates, international banking and money markets, international bond and equity market, futures and options on foreign exchanges, interest rate and currency swaps, international portfolio investment, and management of exposure.

Prerequisite: FNCE 3170 (minimum C-); FNCE 3180 (minimum C-); or equivalent

Note: Students may not receive credit for more than one of FNCE 4180 or BBUS 4180

FNCE 4190 3 credits

Financial Institutions Management (3,0,0)

Students explore the different financial intermediaries in our economy, the financial risks they are exposed to, and how these risks are measured and managed. Topics include the types of financial institutions including deposit-taking institutions, insurance companies, securities firms, investment banks, mutual funds, hedge funds, pension funds, and finance companies; regulation of the financial industry; measuring risk including interest rate risk, market risk, credit risk, liquidity risk, off-balance sheet risk, foreign exchange risk, sovereign risk and technology and other operational risks; managing risk through the use of derivatives, loan sales and securitization; and managing risk through deposit insurance and other liability guarantees and capital adequacy standards.

Prerequisite: FNCE 3150, FNCE 3170 and FNCE 3180 (minimum C- grades) or equivalent

Note: Students may not receive credit for more than one of FNCE 4190 or BBUS 4190

FNLG 1000 3 credits

Introduction to First Nations Language 1 (3,0,0)

This course will introduce students to the First Nations language. Emphasis will be placed on developing listening and speaking skills, conversational ability, and knowledge of grammatical structures. Little or no prior knowledge of the language is the expected entry level for this course.

Prerequisite: Admission to the DSTC program or Admission to TRU

Corequisite: FNLG 1010 recommended

FNLG 1010 3 credits

First Nations Language Immersion 1 (3,0,0)

This course is designed to immerse learners in the First Nations language to develop language proficiency. DSTC students will be required to actively participate in First Nations language immersion.

Prerequisite: Admission to the DSTC program

Corequisite: FNLG 1000

FNLG 1100 3 credits

Introduction to First Nations Language 2 (3,0,0)

This course will build the student's abilities developed in FNLG 1000 to gain a greater understanding of the grammatical structures and language analysis methodologies while continuing to expand their vocabulary of the First Nations language.

Prerequisite: Successful completion of FNLG 1000 or permission of the instructor and DSTC

Program Coordinator Corequisite: FNLG 1110 recommended

FNLG 1110 3 credits

First Nations Language Immersion 2 (3,0,0)

This course will permit students to build on their abilities developed in FNLG 1010 and FNLG 1100 to gain a greater understanding of the grammatical structures, while continuing to expand their vocabulary of the First Nations language.

Prerequisite: FNLG 1010 or permission of the instructor and DSTC Program Coordinator

Corequisite: FNLG 1100

FNLG 2000 3 credits

First Nations Language Structure and Analysis 1 (3,0,0)

This course will allow students to build on their abilities developed in Year 1 to gain an enhanced understanding of the grammatical structures and language analysis methodologies while continuing to expand their vocabulary of the First nations language.

Prerequisite: FNLG 1000 and FNLG 1100 or permission of the instructor and the DSTC Program Coordinator

Corequisite: FNLG 2010 is recommended

FNLG 2010 3 credits

First Nations Language Immersion 3 (3,0,0)

This course will, through continued Immersion, permit students to build on their abilities developed in Year 1 to gain an enhanced understanding of grammatical structures, while continuing to expand their vocabulary of the First Nations language.

Prerequisite: Successful completion of Year 1 of the DSTC program or permission of the instructor and Program Coordinator

Corequisite: FNLG 2000

FNLG 2100 3 credits

First Nations Language Structure and Analysis 2 (3,0,0)

This course will permit students to continue to build on their abilities developed in FNLG 2010 to gain an enhanced understanding of the grammatical structures and language analysis methodologies while continuing to expand their vocabulary of the First Nations language.

Prerequisite: FNLG 2000 and FNLG 2010 or permission of the instructor and Program Coordinator

Corequisite: FNLG 2110 is recommended

FNLG 2110 3 credits

First Nations Language Immersion 4 (3,0,0)

This course will provide additional opportunities for students to be immersed in the First Nations language, gaining greater proficiency in language usage and fluency.

Prerequisite: FNLG 2000 and FNLG 2010 or permission of the instructor and the DSTC Program Coordinator

Corequisite: FNLG 2100

FNLG 3000 3 credits

First Nations Language Immersion 5 (3,0,0)

This course will build on previous First Nations language courses to enable students to gain greater proficiency, conversational ability, literary skills, and an advanced knowledge of oral traditions.

Prerequisite: Successful completion of Year 2 of the DSTC program including FNLG 2110 or permission of the instructor and Program Coordinator

FNLG 3100 3 credits

First Nations Language Immersion 6 (3,0,0)

This course will provide opportunities for students to continue to be immersed in the First Nations language, gaining greater fluency, conversational ability, literary skills, and an advanced knowledge of oral traditions.

Prerequisite: Successful completion of FNLG 3000 or permission of the instructor and Program Coordinator

FNST 2200 3 credits

First Nations Oral Traditions (3,0,0)

Students are provided opportunities to enhance their understanding and exposure to First Nations oral traditions from a continued study of language through speaking and song. Students examine traditional and contemporary orality of the First Nations language.

Prerequisite: Successful completion of Year 1 of the the Developmental Standard Certificate (DSTC) program or permission of the instructor and the DSTC program coordinator

FNST 2300 3 credits

First Nations Language and World View (3,0,0)

Students focus on the First Nations world view and its relationship to language, and develop an understanding of what a world view is and what beliefs and belief systems make up a world view.

Prerequisite: FNST 2200 or permission of the instructor and the Developmental Standard Certificate (DSTC) program coordinator

FRAN 1040 3 credits

French for Teachers (3,0,1)(L)

Current or future educators and parents with minimal French training learn to model spoken French and make sense of authentic materials in the 5-7 core French classroom based on SD73 curriculum materials. Focus is on immediate classroom needs in pronunciation, reading skills, vocabulary building, and culture.

Note: This course does NOT count towards the Bachelor of Arts language requirement. Students who have completed Grade 11 French or equivalent within the last two full years may NOT take this course for credit unless approved by the Modern Languages Coordinator. Students with high school French immersion may NOT take this course for credit. Fluent or first-language speakers of French may NOT take this course for credit. Students may only receive credit for one of FRAN 1040 or FREN 1040.

FRAN 1110 3 credits

Introductory French 1 (3,0,1)(L)

Students begin the Common European Framework of Reference for Languages (CEFR) A1 level to develop cultural knowledge and communicative skills in speaking, listening, reading and writing in modern standard French. Students are assumed to have no prior knowledge of French.

Note: Students who have completed Grade 11 French or equivalent within the last two full years may NOT take this course for credit unless approved by the Modern Languages Coordinator. Students with high school French immersion may NOT take this course for credit. Fluent or first-language speakers of French may NOT take this course for credit. Students may only receive credit for one of FRAN 1110, FRAN 1310, FREN 1000 or FREN 1001.

FRAN 1210 3 credits

Introductory French 2 (3,0,1)(L)

Building on the Common European Framework of Reference for Languates (CEFR) A1 skills acquired in FRAN 1110, students continue to develop communicative skills to the A1+ level in speaking, listening, reading and writing as well as the culture of the French-speaking world.

Prerequisite: FRAN 1110 or equivalent

Note: Students who have completed Grade 11 French or equivalent within the last two full years may NOT take this course for credit unless approved by the Modern Languages Coordinator. Students with high school French immersion may NOT take this course for credit. Fluent or first-language speakers of French may NOT take this course for credit. Students may only receive credit for one of FRAN 1210, FRAN 1310, FREN 1010 or FREN 1011.

FRAN 1310 6 credits

Accelerated Beginners French (6,0,2)(L)

This is a refresher course for learners of French who had previously acquired most Common European Framework of Reference for Languages (CEFR) A1 skills but are in need of a refresher before laddering into Intermediate French 1.

Prerequisite: Grade 11 French or equivalent completed more than 2 full calendar years ago or Modern Languages Coordinator approval.

Note: Students with high school French immersion may NOT take this course for credit. Fluent or first-language speakers of French may NOT take this course for credit. Students may only receive credit for one of FRAN 1310, FRAN 1110, FRAN 1210 or FREN 1050

FRAN 2050 3 credits

Oral French Practice 1 (3,0,1)(L)

This course, conducted entirely in French, is designed to enhance oral communicative skills at the CEFR B1 level.

Students review grammar and expand vocabulary through a variety of oral/aural activities with minimal emphasis on related written skills.

Prerequisite: FRAN 2410 or equivalent

Note: Students who have completed Grade 12 French immersion or equivalent may take this course for credit. Fluent or first-language speakers of French may NOT take this course for credit. Students may only receive credit for one of FRAN 2050 or FREN 2050

FRAN 2060 3 credits

Oral French Practice 2 (3,0,1)(L)

This course, conducted entirely in French, moves students to the CEFR B1+ level through a variety of oral/aural activities with minimal emphasis on related written skills.

Prerequisite: FRAN 2050 or equivalent

Note: Students who have completed Grade 12 French immersion or equivalent may take this course for credit. Fluent or first-language speakers of French may NOT take this course for credit. Students may only receive credit for one of FRAN 2060 or FREN 2060

FRAN 2110 3 credits

Intermediate French 1 (3,0,1)(L)

Entering the CEFR A2 level, students further develop their communicative French skills in speaking, listening, reading and writing and begin to explore French spoken in different regions and registers.

Prerequisite: FRAN 1210 or equivalent

Note: Students who have completed Grade 12 French or equivalent within the last two full years may NOT take this course for credit unless approved by the Modern Languages Coordinator. Students with high school French immersion may NOT take this course for credit. Fluent or first-language speakers of French may NOT take this course for credit. Students may only receive credit for one of FRAN 2110 or FREN 1100

FRAN 2210 3 credits

Intermediate French 2 (3,0,1)(L)

Continuing to work through the CEFR A2 level, students solidify their previous skills in French and extend their knowledge to the more advanced verb tenses and modes.

Prerequisite: FRAN 2110 or equivalent

Note: Students who have completed Grade 12 French or equivalent within the last two full years may NOT take this course for credit unless approved by the Modern Languages Coordinator. Students with high school French immersion may NOT take this course for credit. Fluent or first-language speakers of French may NOT take this course for credit. Students may only receive credit for one of FRAN 2210 or FREN 1200

FRAN 2310 3 credits

Advanced Intermediate French 1 (3,0,1)(L)

Advancing into the CEFR A2+ level, students consolidate French reception, interaction and production skills and are introduced to some literary texts from around the French speaking world.

Prerequisite: French 12, FRAN 2210 or equivalent

Note: Students with Grade 12 French immersion may NOT take this course for credit unless approved by the Modern Languages Coordinator. Fluent or first-language speakers of French may NOT take this course for credit. Students may only receive credit for one of FRAN 2310 or FREN 1110

FRAN 2410 3 credits

Advanced Intermediate French 2 (3,0,1)(L)

As students move to the CEFR B1 level, they prepare to extend their language skills to interact with native speakers in most daily situations. Students build a richer vocabulary and fine-tune grammatical structures through the study of literary and other texts.

Prerequisite: FRAN 2310 or equivalent

Note: Students with Grade 12 French immersion may NOT take this course for credit unless approved by the Modern Languages Coordinator. Fluent or first-language speakers of French may NOT take this course for credit. Students may only receive credit for one of FRAN 2410 or FREN 1210

FRAN 3110 3 credits
Advanced French 1 (3,0,1)(L)
Students focus on composition and oral practice based on literary texts, media and contemporary readings from the Francophone world. This CEFR B1/B1+ course is conducted entirely in French.

Prerequisite: FRAN 2410 or equivalent

Note: Students who have completed Grade 12 French immersion or equivalent may take this course for credit. Fluent or first-language speakers of French may NOT take this course for credit unless approved by the Modern Languages Coordinator. Students may only receive credit for one of FRAN 3110 or FREN 2110

FRAN 3210 3 credits
Advanced French 2 (3,0,1)(L)
Students hone their composition skills through the close study of literary texts. This CEFR B1+/B2 course is conducted entirely in French.

Prerequisite: FRAN 3110 or equivalent

Note: Students who have completed Grade 12 French immersion or equivalent may take this course for credit. First-language speakers of French may NOT take this course for credit unless approved by the Modern Languages Coordinator. Students may only receive credit for one of FRAN 3210 or FREN 2210.

FRAN 3510 3 credits
Survey of Francophone Literature before 1900 (3,0,0)
Students survey significant French authors and works from the Moyen Ä,ge through 1900. Class discussion at the CEFR B2 level plays a major role in this course, which is conducted entirely in French.

Prerequisite: FRAN 3210 or equivalent

Note: Students who have completed Grade 12 French immersion or equivalent may take this course for credit. Fluent or first-language speakers of French may take this course for credit. Students may only receive credit for one of FRAN 3510 or FREN 2120

FRAN 3610 3 credits
Survey of Francophone Literature since 1900 (3,0,0)
Students survey significant French authors and works from 1900 to the present. Class discussion at the CEFR B2+level plays a major role in this course, which is conducted entirely in French.

Prerequisite: FRAN 2410 or equivalent. Recommended - FRAN 3510.

Note: Fluent or first-language speakers of French may take this course for credit. Students may only receive credit for one of FRAN 3610 or FREN 2220.

FRAN 3710 3 credits
Quebec Literature in Translation (3,0,0)
Students are provided an overview of issues and theories relevant to Quebec fiction, while focussing on a chronological study of works from the major literary movements in Quebec, including the roman du terroir, the quiet revolution, feminist writing, immigrant literature and the contemporary novel of the 1990s and beyond. Works are read in translation. The course is taught in English.

Prerequisite: Completion of 30 credits

Note: Students may only receive credit for one of FRAN 3710 or FREN 3260

FRAN 3810 3 credits
Quebec Cinema in Translation (3,0,0)
Students are introduced to issues and theories relevant to Quebec cinema while focusing on the representation of Quebec culture and society in major films from 1960 to the present. All films are subtitled or dubbed in English, and the course is taught in English.

Prerequisite: Completion of 30 credits

Note: Students may only receive credit for one of FRAN 3810, FILM 3250 or FREN 3250

FRAN 4110 3 credits
Studies in French Language and Style 1 (3,0,0)
Students focus on advanced composition, syntax, versification, translation and oral practice. The course is conducted in French at the CEFR C1 level.

Prerequisite: FRAN 3210 or equivalent

Note: Fluent or first-language speakers of French may take this course for credit. Students may only receive credit for one of FRAN 4110 or FREN 3520.

FRAN 4210 3 credits
Studies in French Language and Style 2 (3,0,0)
Students examine the language at an advanced CEFR C1+ level, from both an analytical and a practical point of view, with a focus on the relationship between grammatical structures and stylistic effects. Students also consider the practice and techniques of advanced translation from English to French.

Prerequisite: FRAN 4110 or equivalent

Note: Fluent or first-language speakers of French may take this course for credit. Students may only receive credit for one of FRAN 4210 or FREN 4520.

FRAN 4510 3 credits
French-Canadian Literature (3,0,0)
Students read and discuss representative French-Canadian works from the 19th century to the present. This course is conducted in French at the CEFR C1 level.

Prerequisite: FRAN 3210 or equivalent. Recommended - FRAN 4110, FRAN 4210.

Note: Fluent or first-language speakers of French may take this course for credit. Students may only receive credit for one of FRAN 4510 or FREN 4160.

FRAN 4710 3 credits
Selected Topics in French and Francophone Literature (3,0,0)
Students explore selected topics in French and Francophone literatures. Course content varies from year to year. This course is conducted in French at the CEFR C1/C2 level.

Prerequisite: FRAN 3210 or equivalent. Recommended - FRAN 4110 or FRAN 4210.

Note: Fluent or first-language speakers of French may take this course for credit. Students may only receive credit for one of FRAN 4710 or FREN 4150.

FRST 2040 3 credits
Forest and Environmental Climatology (3,0,2)(L)
This is a Science Laboratory course designed for Forestry and Environmental Science students. It includes basic principles and processes of climatology; energy and plant water balance concepts; vertical and horizontal air movements; weather systems; microclimates; and the interrelationships among plants, soils, climates, and the biosphere.

Prerequisite: BIOL 1110/1210, Physics 11, GEOG 1120 highly recommended |Note: Same as GEOG 2040 |

Required Lab: FRST 2040L

FRST 2210 3 credits
Forestry Mensuration (3,0,2)(L)
This course teaches forest inventory methods, growth and yield prediction, sampling techniques, and the applications of multiple linear regression statistical analysis. It includes methods of conducting regeneration and residue surveys, and an introduction to multiple resource inventories.

Prerequisite: FRST 2110

Required Lab: FRST 2210L

FRST 3050 3 credits
Silviculture 1 (3,0,2)
Silviculture is concerned with the art and science of controlling the establishment, growth, composition, health and quality of stands of trees in forests. The objective is to meet the diverse needs and values of landowners and society on a sustainable basis. Silviculture 1 is the first of a two-part series in the study of silviculture concepts and principles. Silviculture 1 and 2 have been designed to parallel, but are not identical to, Forestry 3050 and 3060 as currently offered by the Faculty of Forestry at the University of British Columbia and each conforms to the ABCPF Silviculture Academic Standards. This course will be offered in a distance format.

Prerequisite: Dendrology, Forest Ecology, Forest Silvics, Forest Mensuration. Recommended: Forest Biometrics, Forest Economics, Forest Entomology, Forest Pathology, Forest Soils.

FRST 3060 3 credits
Silviculture 2 (3,0,2)
Silviculture 2 deals with stand tending silviculture practices from free growing through to final harvest of a stand. These include thinning, fertilization, pruning, and silviculture systems and their relationship to timber quality, structural biodiversity, habitat and stand growth and yield and allowable cuts at the forest level. Decision making in crop planning, stand dynamics, operational problems and relevant history policy and regulatory issues and underlining science theory are also covered.

Prerequisite: FRST 1120/1220, FRST 2100, FRST 2200, FRST 2110, NRSC 3200, FRST 2000

FRST 3070 3 credits
Forest Harvesting (3,0,2)
The field of forest harvesting addresses the engineering, economic, and environmental factors associated with transportation and harvesting systems used in integrated forest resource management. These include forest road design and location, geotechnical engineering, forest road drainage; planning, locating and scheduling the harvest; and an international perspective on logging systems and their application to meet silvicultural objectives. Forest harvesting is a specialized field within forestry, and professional competence within this field (especially road location and design) requires significant course work and an extended field internship, in addition to the minimum standards identified here for the general forester. This course will be offered in a distance format.

Prerequisite: Undergraduate Degree or Diploma from a recognized technical college or university, majoring in forestry or natural resource science.

GASF 1000

Domestic/Commercial Gasfitter (Class B) Apprentice Level 1

Students are introduced to theory and gain hands-on lab experience in the following topics: Safe work practices, proper use of tools and equipment, organizing work and to prepare and assemble plumbing components.

Prerequisite: BC ITA registered Apprentice

GASF 2000

Domestic/Commercial Gasfitter (Class B) Apprentice Level 2

Students are introduced to theory and gain hands-on lab experience in the following topics: organizing work, installing and servicing fuel systems, installing venting and air supplies, installing and servicing gas equipment and installing and servicing controls and safeguards.

Prerequisite: GASF 1000 - Gas Fitter Class B Apprentice Level 1

GASF 3000

Gasfitter (Class A)

This course prepares students to install, test, maintain and repair propane/natural gas lines, appliances, equipment and accessories in residential and commercial premises. The holder of a Gasfitter - (Class A) is involved in the installation or alteration of any gas system 400,000 BTU's and greater, except vehicle fuel systems under the appropriate permit.

Prerequisite: Must have held a Class B gas fitter's certificate of qualification for a minimum of 2 years

GEOG 1000 3 credits

Planet Earth - An Introduction to Earth System Science (3,0,2)(L)

This science laboratory course introduces students to the study of earth system science by examining the interactions among the atmosphere, biosphere, lithosphere and hydrosphere as well as the impact that human activity has on interactions. Topics include plate tectonics; earthquakes and tsunamis; volcanos; the rock cycle; mass wasting - including landslides; weathering; and soils. Glaciers; permafrost; and Karst landscapes, including caves, are also explored. In addition, students will be introduced to hydrology - the study of the occurrence, distribution and movement of water at or near the surface of the earth. Laboratory instruction will include landform identification using topographic maps; co-ordinate systems (latitude and longitude, UTM); map scale; basic surveying - including the use of Global Positioning Systems (GPS); and graphing. Students will also be exposed to Geographic Information Systems (GIS) and remote sensing technologies and will be introduced to how they assist us in our understanding of Planet Earth.

Prerequisite: None.

GEOG 1010 3 credits

People, Places and Landscapes: Introducing Human Geography (3,0,0)

This course introduces and explores human geography concepts, issues, and processes that influence the dynamic connections among people, places and environments at different spatial scales. A wide range of themes related to the study of human geography and environmental studies is covered, including: population dynamics; culture and identity; economic patterns and uneven development; agriculture and food production; cities and urbanization; geopolitics; globalization; and the challenges of environmentally sustainable development.

GEOG 1100 3 credits

Introduction to Environmental Studies and Sustainability (3,0,0)

Students explore the natural and human-modified environment from a geographical viewpoint. They examine topics such as environmental worldviews, the history of the environmental movement, ecosystems, energy principles, human population dynamics, patterns of resource use, and environmental issues and ethics.

Note that students cannot receive credit for both GEOG 1100 and GEOG 2100

GEOG 1110 3 credits

World Regional Geography (3,0,0)

This course applies the core concepts of geography to interpret both the variety and distinctiveness of places and regions and to their relationships, connections, and integration. It introduces students to the academic discipline of geography as well as its professional applications by explaining geographic approaches to social issues. Students obtain an appreciation for geographic thinking, and greater understanding of the complex modern world.

GEOG 2020 3 credits

Weather, Climate and Global Environmental Change (3,0,2)(L)

Students will be introduced to the basic principles and processes of meteorology and climatology, the study of weather and climate, respectively. Possible topics include the composition and structure of the atmosphere,solar radiation and the seasons, energy balances and temperature, atmospheric pressure and wind, atmospheric moisture and cloud development, precipitation,atmospheric circulation, air masses and fronts, thunderstorms and tornadoes, and cyclonic storms. Additionally, students will learn climate classification systems as well as examine the potential causes of past and predicted future global climates. This course qualifies as a science laboratory course

GEOG 2050 3 credits

Introduction to Hydrology (3,0,2)(L)

This physical geography course introduces students to hydrologic systems and processes, with an emphasis on: the global hydrologic cycle; hydrologic processes in river basins and related measurement techniques; and elementary hydrologic modelling. The course also examines the potential impact that land use (such as irrigation and urbanization), climate change and politics may have on water resources.

GEOG 2110 3 credits

Geography of the Economic Landscape (2,1,0)

A geographic view of economic activity is offered in this course. Students examine economic interrelationships, the character of various economic regions, and general spatial organization, on a local, regional and global scale.

GEOG 2120 3 credits

Geography of Urban and Regional Planning (2,1,0)

An introduction to themes and problems in the field of Urban and Regional Planning, recognizing the increasing interdisciplinary nature of this area of study. The course will study urbanization as an historic and rapidly continuing process; the growth of functional regions and patterns of urban settlement; the dynamics of urban structure and land use; critical planning problems that face both the developed and developing countries.

GEOG 2220 3 credits

The Regional Geography of Canada (3,0,0)

Students explore the emergence of Canada as a distinct space through the organising concept of the region, which inherently integrates physical geography, human-nature interactions, and cross cultural interactions. The emergence

of new cultural, political, economic, and ecological environments is introduced through survey lectures and further analysed through region-specific case studies.

Note that students cannot receive credit for both GEOG 2220 and GEOG 2221

GEOG 2230 3 credits

The Regional Geography of British Columbia and Yukon (3,0,0)

Students explore the emergence of British Columbia in the context of Indigenous history, colonial interactions, the modern nation-state, and emerging concerns about social and economic sustainability in a global economy. British Columbia's physical geography, its evolving human-nature adaptations, and the emergence of new cultural, political, and economic organisation are introduced through survey lectures and analysed through explorations of case studies of distinct sub-regional processes and concerns.

Note that students cannot receive credit for both GEOG 2230 and GEOG 2231

GEOG 2400 3 credits

Geographic Thought (3,0,0)

This introductory geographic theory course provides students with a critical perspective on the nature and development of geographic knowledge and its application in the key subdisciplines of human geography, physical geography, and environmental studies.

GEOG 2700 3 credits

Introduction to Geographical Analysis (3,0,2)

This computer-based laboratory course introduces students to quantitative methods used for geographic analysis. Students learn the fundamentals of statistical analysis of quantitative and qualitative variables and how to use computer software to perform these analyses. At the end of the course, students understand how to apply quantitative methods to answer questions of geographic interest, and have developed a working knowledge of the most commonly used statistical software in quantitative geography.

GEOG 2750 3 credits
Geographic Information Systems (3,0,2)(L)
This course introduces students to geodesy and geoinformatics, topics of study commonly referred to collectively as geomatics. Course topics include: common geographic coordinate systems; common map projections; geospatial data models; setting coordinate systems; loading geospatial data; visualization of geospatial data; manipulating feature and coverage values; and basic geoprocessing procedures. Labs will provide hands-on experience with ArcGIS, the leading GIS software in the industry, towards the goal of developing marketable skills geographic information management.

Note: This course is identical to NRSC 2230

GEOG 3040 3 credits
Environmental Climatology and Meteorology (3,0,2)(L)
In this science laboratory course, students examine: the principles and processes of surface and near-surface climatology and meteorology; energy and plant water balance concepts; vertical and horizontal air and vapour movements; microclimates, urban heat islands; the meteorology of atmospheric pollution; and the interrelationships among plants, soils, climates and the biosphere.

Prerequisite: GEOG 2020 or GEOG 2050 or permission of instructor

GEOG 3050 3 credits
Physical Hydrology (3,0,2)(L)
This physical geography course examines the physical processes that determine the quantitative importance and spatiotemporal variability associated with the occurrence, distribution and movement of water on or near the Earth's surface. In addition to a theoretical treatment of the subject, students are introduced to measurement techniques used in the field and to a variety of hydrologic models. Numerical problem solving exercises and field work are important components of the course.

Prerequisite: GEOG 2020 or GEOG 2050

GEOG 3060 3 credits
Groundwater Hydrology (3,0,2)(L)
This science course deals with distribution and movement of water in the phreatic zone. Topics covered include properties of aquifers, principles of groundwater flow, groundwater flow to wells, soil moisture and groundwater recharge, regional groundwater flow, groundwater chemistry and contamination, groundwater development and management, and groundwater modeling.

Prerequisite: GEOG 2050 and completion of 30 credits

GEOG 3070 3 credits
Biogeography (2,1,0)
This physical geography course examines the physical, biological and chemical processes and constraints that determine contemporary spatial and temporal patterns in life on Earth. In addition, historical patterns are examined with an emphasis placed on the impact plate tectonics and late Tertiary and Quaternary climatic changes had on plant and animal distributions. Other topics discussed in this course include mass extinctions, biodiversity, and the possible biogeographic consequences of anthropogenically induced global climatic change.

Prerequisite: Completed 30 credits (any discipline)

GEOG 3080 3 credits
Geomorphology (3,0,2)(L)
This course examines geomorphic processes, interrelationship of processes, landforms, materials and time. Practical problems in Science and Applied Science that relate to geomorphic processes are discussed in lectures and methods of investigation and analysis are introduced in the laboratory sessions.

Prerequisite: GEOG 1000 or GEOL 1110 or permission of instructor

Note: Same as GEOL 3190

GEOG 3100 3 credits
Environment, Resources and Sustainability (3,0,0)
Students explore the natural and human-modified environment from a geographical viewpoint. They examine topics such as environmental worldviews, the history of the environmental movement, ecosystems, energy principles,

human population dynamics, patterns of resource use, and environmental issues and ethics.

Prerequisite: Completion of 30 credits

GEOG 3200 3 credits
Introduction to Cultural Geography (3,0,0)
Students explore the history and methods of cultural geography. Contemporary landscapes, human-land adaptations, attitudes towards nature, colonial history and inter-cultural relations, and the cultural nature of the modern economy are examined through a mixture of directed field exploration, film and other arts, and studies of neighbourhood change.

Prerequisite: Completion of 30 credits any discipline or permission of the instructor

GEOG 3210 3 credits
Historical Geography of Urbanization (2,1,0)
Students explore geographic perspectives on the growth of urban regions; pre-industrial cities, urban growth during industrialization, and anti-urban reaction.

Prerequisite: Completion of 30 credits (any discipline) or permission of instructor.

GEOG 3230 3 credits
Geographies of Gender (2,1,0)
This course is an introduction to gender and feminist geography. The course explores gender identities and biases in everyday spaces and activities at a variety of geographic scales, and examines the intersection of gender, race, and class to illustrate the complexity of social categories.

Prerequisite: Completion of 30 credits (any discipline) or permission of the instructor.

GEOG 3270 3 credits
Historical Geography of Canada 1: Canada Before 1850 (2,1,0)
This course is a study of Canada from the beginning of European contact to the mid-19th century, with an emphasis on the changing geographical patterns of settlement, economy, and culture.

Prerequisite: Completion of 30 credits (any discipline) or permission of the instructor.

GEOG 3280 3 credits
Historical Geography of Canada 2: Canada After 1850 (2,1,0)
This course is a study of the spread of settlement, the growth of towns, and the development of economic and cultural regions in Canada - a Nation increasingly influenced by industrialization.

Prerequisites: Completion of 30 credits (any discipline) or permission of instructor.

GEOG 3500 3 credits
Introduction to Urban Geography (3,0,0)
Students explore theories of inter and intra urban locations and structures in the context of demographic, economic, social, cultural, technological, environmental and political processes of change, which shape the nature of urbanism and urbanization in Canada and around the world.

Prerequisite: Completion of 30 credits (any discipline) or permission of the instructor.

GEOG 3510 3 credits
Rural Geography (3,0,0)
This course focuses on themes in rural geography, such as land use issues, small settlements and society, agriculture, tourism and other industries, rural administration, service provision, and the effects of socio-economic processes including urbanization and globalization.

Prerequisite: Completion of 30 credits (any discipline) or permission of the instructor.

GEOG 3550 3 credits
Geography of the Rural-Urban Fringe (3,0,0)
This human-geography course examines landscape change and management at the edge of cities. Examples will be taken from large and small cities in Canada and around the world.

Prerequisite: Completion of 30 credits (any discipline) or permission of the instructor.

GEOG 3570 3 credits
Introduction to Social and Behavioural Geography (2,1,0)
Students study the development of social and behavioural geography, focussing on topics such as environmental perception and microgeography, and approaching these topics from institutional and interactionist perspectives.

Prerequisite: Completion of 30 credits (any discipline) or permission of instructor.

GEOG 3610 3 credits
Themes in Economic Geography (3,0,0)
Students will learn the history and methods of economic geography, and study the location of resource industries, manufacturing, and service activities with an emphasis on British Columbia in its North American world setting.

Prerequisite: Completion of 30 credits (any discipline) or permission of the instructor.

GEOG 3630 3 credits
The Geography of Resource Industries (2,1,0)
This course offers a geographical analysis of selected resource industries of importance to Canada. Each year a selection is made from the agriculture, forestry,

fishing, mining, energy, and recreation sectors, and explored within international and national contexts.

Prerequisite: Completion of 30 credits (any discipline) or permission of the instructor.

GEOG 3650 3 credits

Geography of Consumption (3,0,0)

This course examines consumption as a cultural and economic practice, how it has formed landscapes, and its impact on our growing understanding of ecosystems and social systems. It examines spatial patterns of purchasing and consuming goods and services, changing ideas about the landscape as a good and a service, and the ethical and practical questions raised by the social and environmental impact of increased consumption.

Prerequisite: Completion of 30 credits (any discipline) or permission of the instructor.

GEOG 3700 3 credits

Field Course in Geography (0,3,0)

The topic(s) and focus for this course is announced by the Department a year in advance.Prerequisite: A relevant core course or courses, or permission of the instructor.

Prerequisite: Completion of 15 credits (any discipline) or permission of the instructor.

GEOG 3740 3 credits

Remote Sensing of the Environment (3,0,2)(L)

Students in physical, social, and environmental sciences are introduced to remote sensors, sensing platforms, measurement acquisition, and spatial analysis of remote sensing measurements, particularly multi-spectral imagery.

Prerequisite: GEOG 2700 and GEOG 2750

GEOG 3750 3 credits

Applying Geographic Information Systems (2,0,2)(L)

This computer-based laboratory course addresses the creation, management, and application of geo-data. The focus of the course is on the utility of Geographic Information Systems in problem solving and decision-making in real world settings. Labs assist in developing marketable skills in analytical procedures and cartographic output.

Prerequisite: GEOG 2700 and GEOG 2750 or NRSC 2230 or permission of the

instructor

GEOG 3770 3 credits

GIS for Water Resources Systems Analysis (2,0,2)(L)

Recent advances in environmental sensing technologies have increased the amount of data available to support water resources analyses. This explosion in available data necessitates the use of Geographic Information Systems (GIS) to integrate, preprocess, and analyze these datasets. This course will explore ArcGIS-based tools for performing water resources analyses, including Web-services for data acquisition; watershed delineation; river network identification; infiltration modeling; analysis of water budgets; runoff modeling; and channel routing. At the end of the course, the students will have a firm grounding in the application of GIS for modeling of water resources systems.

Prerequisite: GEOG 2050 and GEOG 2740 or NRSC 2230 or permission of the instructor.

GEOG 3900 3 credits

*****Geography of Selected Regions (2,1,0)**

This course offers a geographical analysis of selected regions not regularly included in the Department's offerings in regional geography (such as Western Europe, Oceania and East Asia).

Prerequisite: Completion of 15 credits (any discipline) or permission of the instructor.

GEOG 3990 3 credits

*****Special Topics in Geography**

This is a special topics course in geography. The subject matter varies from semester to semester depending upon the interest of faculty and students. Vectoring is determined as per policy ED-8-0.

Prerequisite: Completion of 30 credits (any discipline) or permission of instructor.

GEOG 4050 3 credits

Fluvial Geomorphology (3,0,2)(L)

Moving water on the Earth's surface results in the creation of distinct geomorphic landscapes. This physical geography course examines the principles of sediment entrainment, transport and deposition, fluvial flow, drainage basin form and processes, and an analysis of fluvial landforms. Examples are drawn from the Kamloops area, as well as from other regions in British Columbia, Canada, and the world.

Prerequisite: Completion of 60 credits (any discipline) or permission of the instructor.

GEOG 4060 3 credits

Advances in Hydrology (0,3,0)

This seminar course explores key advances in hydrological science with an emphasis on forest hydrology. The historical development of our current understanding of the physical processes involved in the movement and storage of water in vegetated environments is covered as are future research directions. In addition to physical processes, where appropriate, advances in measurement and modeling methodologies are also examined. Key topics covered include advances in our understanding of rainfall, snow, throughfall and stemflow, evaporation and transpiration, infiltration, soil moisture redistribution, and hillslope hydrology processes. Additionally, the hydrologic impacts of forest harvesting, wildfire, insect infestations, and global climatic change will also be examined.

Prerequisite: Completion of 60 credits (any discipline) or permission of instructor.

GEOG 4100 3 credits

Sustainable Rural Systems (3,0,0)

This course marries the subject areas of rural geography and sustainability in case study analyses of a country - for example, Japan, Canada, China, or Mexico - or a global region - for example, the Asia-Pacific or Africa - depending upon instructor expertise. It examines the transformation of rural areas owing to urbanization, globalization and other social forces. The course examines subsequent problems, such as rural depopulation and the policies to keep these areas socially, economically, and ecologically sustainable.

Prerequisite: Completion of 60 credits (any discipline) or permission of the instructor.

GEOG 4230 3 credits

Attitudes Toward the Environment (2,1,0)

Students examine the cultural attitudes that have influenced land use and environmental change in the past and present.

Prerequisite: Completion of 60 credits (any discipline) or permission of instructor.

GEOG 4240 3 credits

Geography of Tourism (2,1,0) or (3,0,0)

Students examine the geographical topics in tourism, including: tourism as a global and local phenomenon; historical changes in leisure and development of tourism in western, industrializing economies; tourism in the Canadian economy, past and present; current relationships between tourism; and cultural values and economic systems.

Prerequisite: Completion of 60 credits (any discipline) or permission of the instructor.

GEOG 4480 3 credits

*****Directed Studies in Geography**

This course is designed to allow fourth year students to undertake an investigation on a specific chosen topic, agreed upon by the faculty member and the student.

Prerequisite: Permission the department Chair or instructor.

GEOG 4500 3 credits

Urban Analysis (2,1,0)

This course offers a geographical analysis of selected problems caused by the internal structure of cities and urban systems.

Prerequisite: Completion of 60 credits (any discipline) or permission of instructor.

GEOG 4740 3 credits

Spatiotemporal Analysis (2,1,0)

A central theme in geography is the study of spatial and temporal variations of the phenomena which make up natural and human-dominated environments. This course delves into statistical methods for analyzing phenomena that are correlated in space and/or time. Practial applications of theoretical concepts will be explored through the use of R, a statistical computing software. Topics include the characterization of temporal processes; basic time series models (AR, MA, ARMA, ARIMA); characterization of spatial processes; geostatics (Kriging and conditional simulation); spatial point processes; visualization of spatiotemporal data; spatiotemporal covariance functions; and spatiotemporal Kriging. At the end of the course, the students will have a firm grounding in the theory of spatiotemporal statistics and understand how to apply these methods to answer questions of geographic interest.

Prerequisite: GEOG 2700

GEOG 4750 3 credits

Advances in Geomatics (0,3,0)

As a technology-based discipline, the field of geomatics is rapidly changing in response to technological advancements in remote sensing, computing hardware, wireless communication, programmatic abstractions, and spatiotemporal models. Through the reading of recently published articles and the replication of key results, this fourth year seminar class explores recent advances in the

state-of-the-science of geomatics. Key topics include real-time access to environmental observations; free-and-open-source GIS; GIS-based decision support systems; Web-enablement; environmental data fusion; decentralized and cloud-based tools for geomatics.

Prerequisite: GEOG 3750 or GEOG 3770 or permission of instructor.

GEOG 4800 3 credits

Environmental Issues and Policies (2,1,0)

Using a geographical analysis of environmental issues and policies, this course relates land use, hazards and resource allocation to changing demand, technology, institutions, policies, and social values. An emphasis is placed on issues and policies relevant to small cities and adjacent rural areas.

Prerequisite: Completion of 60 credits (any discipline) or permission of the instructor.

GEOG 4810 3 credits

Geography of Small Cities (2,1,0)

This course examines the economic, social, cultural, and environmental qualities of small cities and the issues and forces that affect them. Case studies are drawn from the local scene and from across North America.

Prerequisite: Completion of 60 credits (any discipline) or permission of the instructor.

GEOG 4820 3 credits

Urban Biophysical Environments (3,0,0)

Cities represent areas where biophysical processes are often markedly distinct from their rural counterparts. This physical geography course examines the climatology, hydrology, geomorphology, and biogeography of cities, and the impact cities have on biophysical processes at regional and global scales. Specific topics include: the urban heat island effect; urban hydrology; building architecture and wind; atmospheric contamination; urban forestry; and the urban area as an ecosystem. Students study the biophysical processes of environmental examples drawn from Kamloops and comparative communities.

Prerequisite: Completion of 60 credits (any discipline) or permission of the instructor.

GEOG 4840 3 credits

Postcolonial Geographies (2,1,0)

Students analyze the role of geographical ideas and practices in the establishment, maintenance, overthrow, and persistence of colonial relationships.

Prerequisite: Completion of 60 credits (any discipline) or permission of the instructor.

GEOG 4850 3 credits

Geography of First Nations Issues in British Columbia (3,0,0)

This course offers an examination of the issues involved in the creation of new relationships that are evolving and inclusive of First Nations concerns in British Columbia. Students explore the past relationships between indigenous and non-indigenous peoples of the province, the legal principles and precedents in force, the present situation of ongoing negotiations, and an analysis of future possibilities. Land and resource agreements and disagreements are the focus of this course, as well as the mechanisms available for compromise and resolution.

Prerequisite: Completion of 60 credits (any discipline) or permission of the instructor.

GEOG 4990 3 credits

*****Special Topics in Geography and Environmental Studies**

This is a special topics course in geography. The subject matter varies from semester to semester depending upon the interest of the faculty and students. Vectoring is determined as per policy ED-8-0.

Prerequisite: Completion of 60 credits (any discipline) or permission of the instructor.

GEOL 1110 3 credits

Introduction to Physical Geology (3,0,2)(L)

This is a science laboratory course directed towards anyone who has an interest in geology. The course involves a survey of all major topics of physical geology, including mineralogy, petrology, crystal chemistry, time, surface processes, volcanic activity, rock deformation and mountain building, and plate tectonics. Field excursions supplement the lecture and laboratory material.

Required Lab: GEOL 1110L

GEOL 2050 3 credits

Geological Time (3,0,3)(L)

This course explores the evolution of Earth, the continents, oceans, atmosphere, climate, and biosphere over geologic time. Students will learn about the scientific principles, evidence, techniques and technologies for addressing fundamental inquires such as how oxygen was added to the atmosphere, how and why climates have changed throughout time and the significance to current climate change; how water and salts were added to the oceans, and causes of sea level change; the formation and erosion of mountains; causes and effects of glaciations; theories for the origin of life, and the timing and causes of major extinctions; and the recent importance of humans as geologic agents.

Prerequisite: GEOL 1110 or GEOG 1000 or consent of the instructor

Required Lab: GEOL 2050L

GEOL 2060 3 credits

Introduction to Mineral Deposits, Minerals (3,0,0)

This course explores the formation, styles and types of mineral deposits, occurrences, exploration methods, mineral resources and reserves, types of mines, and prospecting methods. Topics include considerations of a social license to mine; social, economic, and environmental sustainability issues and solutions; environmental assessment, mine closure and reclamation. Case studies will be discussed.

Prerequisite: One of GEOL 1110, GEOL 1111, or GEOG 1000 or consent of the instructor

GEOL 2070 3 credits

Geologic Hazards and Forensic Geology (3,0,0)

In this course students will explore how the geosciences contribute to criminal and military investigations, and to the understanding, prediction and mitigation of geologic hazards. This course is an opportunity to explore the magnitude, frequency, causes and impacts of geologic hazards such as earthquakes, volcanic eruptions, tsunami, landslides, and meteor impact. The course also covers prediction, monitoring, assessment and causes of damage; the role of the geosciences in national security, and geological methods used in criminal investigations.

Prerequisite: One of GEOL 1110, GEOL 1111, or GEOG 1000 or consent of the instructor

GEOL 2100 3 credits

Earth Materials (3,0,3)(L)

Students explore the rocks and minerals of Earth and the solar system, including their uses, occurrences and evolution throughout geologic time. Though this exploration students gain an understanding of the systematic study of minerals, their physical and chemical properties and identification, as well as the major rock types, where they occur, how they are formed, and their field recognition. The curriculum is designed for students with a variety of interests including students considering careers in the geosciences and related fields, education, environmental studies, as well as the rock and mineral enthusiast.

Prerequisite: GEOL 1110 or GEOL 1111 or GEOG 1000 or NRSC 2000 or consent of the instructor

Required Lab: GEOL 2100L

GEOL 2160 3 credits

Optical Mineralogy (3,0,3)(L)

This course builds on previous knowledge by introducing the use of the petrographic microscope and the properties of light and its interaction with mineral grains for identification and other diagnostic purposes. Topics include light waves, the use of the petrographic microscope, polarization, reflection and refraction, isotropic and anisotropic minerals, interference phenomena, interference figures, birefringence, extinction, optic sign, orientation of crystallographic axes, colour and pleochroism, isotropic, uniaxial, and biaxial minerals. Ore minerals and their phase relationships are studied in hand specimen and polished thin section.

Prerequisite: GEOL 2100 or consent of the instructor

Corequisite: GEOL 2100

Required Lab: GEOL 3100L

GEOL 2290 3 credits

Stratigraphy and Sedimentary Geology (3,0,2)(L)

Students explore physical and biological stratigraphy, facies and correlation, sequence concepts, and basin analysis. Topics include the origin, diagenesis, and geochemistry of sediments and sedimentary rock.

Prerequisite: GEOL 1110/2050

Required Lab: GEOL 2290L

GEOL 3010 3 credits

Principles of Palaeontology (2,0,2)(L)

This course is a systematic study of ancient forms of life (fossils). Attention is also given to palaeoecology, evolutionary principles, and palaeontologic techniques.Prerequisite: GEOL 2050

Required Lab: GEOL 3010L

GEOL 3030 3 credits

Environmental Geochemistry (3,0,0)

Students examine the complex relationship between environmental factors and the geochemical history of surface and subsurface rocks. This course is identical to CHEM 3030.

Prerequisite: GEOL 1110 and CHEM 2250 (C minimum)

Note: Credit will not be given for both GEOL 3030 and CHEM 3030

GEOL 3070 3 credits
Structural Geology (2,0,3)
This course offers an analysis and interpretation of natural deformation, including the fault, fold and ductile flow systems accompanying the deformation of the earth's crust; extensional, contractional and toroidal deformation; geometric, kinematic and mechanical analysis of the deformational structures of different scales; and techniques and assumptions used in the construction of structural cross sections.

Prerequisite: GEOL 2290 and GEOL 3190 or

Corequisite: GEOL 2290 and GEOL 3190

Required Lab: GEOL 3070L

GEOL 3150 3 credits
Igneous Petrology and Volcanology (3,0,3)(L)
Students explore volcanic and magmatic processes as fundamental to the transfer of energy and materials from the interior to exterior of the planet, and Earth's evolution through geologic time. Through this exploration students gain an understanding of the chemical and physical processes that melt and crystallize rocks, causes and implications of volcanism and volcanic products, the relationship of igneous processes to plate tectonics, volcanic landforms, and the methods in which igneous rocks are studied to interpret geologic history. The curriculum is designed to instill an appreciation for the importance of igenous processes to societies and the environment, including energy and mineral recsources, and geologic hazards.

Prerequisite: GEOL 2100

Required Lab: GEOL 3150L

GEOL 3190 3 credits
Geomorphology (3,0,2)(L)
Students examine geomorphic processes and the interrelationship of processes, landforms, materials and time. Practical problems in science and applied science that relate to geomorphic processes are discussed in lectures, and methods of investigation and analysis are introduced in laboratory sessions.

Prerequisite: GEOL 1110

Note: Same as GEOG 3080

Required Lab: GEOL 3190L

GEOL 3280 3 credits
Field Techniques (2,0,2*)(L)
Students are introduced to techniques of geological field mapping, including methods in basic structural geology, core analysis, traversing, sampling procedures, and survival first-aid for the field. Laboratory sessions entail field exercises in traversing and mapping.

Prerequisite: GEOL 1110/2050

Required Lab: GEOL 3280L

GEOL 4250 3 credits
Geological History of North America (3,0,0)
Students are provided an overview of the geological history of North America with an emphasis on plate tectonics; Precambrian orogens and Phanerozoic orogenic belts, especially the Cordillera; and the interrelations of sedimentation, deformation and metamorphism.

Prerequisite: GEOL 3190 and GEOL 2290 or

Corequisite: GEOL 3190 and GEOL 2290

GEOL 4480 3 credits
Directed Studies in Geology
Students investigate a specific topic as agreed upon by the faculty member and the student.

Prerequisite: Permission of the faculty member (supervisor) is required and acceptance of the topic by a co-supervisor with the appropriate expertise. The co-supervisor may be from on- or off-campus.

GERM 1110 3 credits
Introductory German 1 (3,0,1)(L)
This course allows beginners to develop cultural knowledge and communicative skills in speaking, listening, reading, and writing in modern standard German. Upon successful completion of this course, students are expected to demonstrate a CEFR A1 level of proficiency.

Note: Students who have completed German in Grade 11 or equivalent within the last two years may not take this course for credit unless approved by Modern Languages.

GERM 1210 3 credits
Introductory German 2 (3,0,1)(L)
Students build on the skills acquired in GERM 1110: Introductory German 1. Upon successful completion of this course, students are expected to demonstrate a CEFR A1+ level of proficiency.

Prerequisite: GERM 1110 or equivalent

Note: Students who have completed German in Grade 11 or equivalent within the last two years may not take this course for credit unless approved by Modern Languages.

GERM 2110 3 credits
Intermediate German 1 (3,0,1)(L)
This is a video-based course for German language and culture which integrates mini-dramas and authentic historical and cultural footage. Students are provided with an in-depth view of German language, culture, and history. Upon successful completion, students are expected to demonstrate a CEFR A2 level of proficiency.

Prerequisite: GERM 1210 or equivalent

GERM 2210 3 credits
Intermediate German 2 (3,0,1)(L)
This course is a continuation of GERM 2110: Intermediate German 1. Upon successful completion, students are expected to demonstrate a CEFR low B1 level of proficiency.

Prerequisite: GERM 2110 or equivalent

GERM 3120 3 credits
Studies in German Culture (3,0,0)
This third-year cultural studies course explores perspectives on fascism through Post-War German cinema. Conducted in English, it views the Nazi era through the lenses of post-war German Film.

Prerequisite: Completion of 30 credits (any discipline) or permission of the instructor.

GLAZ 2000
Glazier Apprentice Level 1
This course is based on the provincial curriculum for the Glazier Apprenticeship Program. This course introduces glass and components for glass building systems and related work. Students learn about: the safe use of tools and equipment; safe work practices for material handling; organizing their work; measuring and cutting glass; fabricating and the installation of commercial glazing systems. This course is the first level of the provincial apprenticeship program.

Prerequisite: Registered Glaziers Apprentices with the Industry Training Authority

GLAZ 3000
Glazier Apprentice Level 2
This course is based on the provincial curriculum for the Glazier Apprenticeship Program. The course expands on the first year curriculum related to glass installation and related work. Students learn about: interpreting drawings and specifications; performing glass cutting and edge treatment; installation of flashing; using caulking and sealants; fabrication and installation methods for storefront; window; curtain walls; skylights and commercial entrance systems; residential windows and doors; installation of showers, windows and solariums. This course is the second level of the provincial apprenticeship program.

Prerequisite: Registered Glaziers Apprenticeswith the Industry Training Authority

GLAZ 4000
Glazier Apprentice Level 3
This course is based on the provincial curriculum for the Glazier Apprenticeship Program. The course expands on the second year curriculum related to glass installation and related work. Students learn about: use of measurement and layout tools; interpreting drawings and specifications; use of codes, standards and regulations; worksite preparation; fabricating and installing storefront systems; layout, assembly and installation of specialty glass and products; and service and maintenance of glazing systems. This course is the third level of the provincial apprenticeship program.

Prerequisite: Registered Glaziers Apprentices with the Industry Training Authority

GLBL 1000 1 credits
Global Competency (0,1,0)
The course provides a means for students to learn how to document, reflect on, and communicate the global competencies - knowledge, skills, and attitudes of a globally minded citizen - acquired through their personal educational experiences.

Prerequisite: Permission from the Centre for Student Engagement and Learning Innovation

HDMC 1000
Heavy Mechanical Apprenticeship Level 1 (300 hours)
This course is the first level of the Heavy Duty Equipment Technicians apprenticeship program. Students will learn to service components of equipment such as graders, loaders, shovels, tractors, trucks, forklifts, drills, and wheeled and tracked vehicles. Working from manufacturers' specifications, they identify and repair problems in structural, mechanical, or hydraulic systems.

HDMC 1500

Heavy Mechanical Foundation (1080 hours)

This course is intended for those without prior experience in the Heavy Duty Equipment field. Students will learn to overhaul, repair and service equipment such as graders, loaders, shovels, tractors, trucks, forklifts, drills, and wheeled and tracked vehicles. Working from manufacturers' specifications, they identify and repair problems in structural, mechanical, or hydraulic systems.

Prerequisite: BC Grade 10, but Grade 12 strongly recommended. Successful completion of the Entry Assessment test.

HDMC 2000

Heavy Mechanical Apprenticeship Level 2 (240 hours)

This course is the second level of the Heavy Duty Equipment Technician apprenticeship program. During this course students will further the ability to work on industrial and construction vehicles, such as mining trucks and bulldozers; on heavy equipment used in construction, forestry, materials handling, landscaping, and land clearing; as well as on buses and large trucks.

HDMC 3000

Heavy Mechanical Apprenticeship Level 3 (180 hours)

This course is the third level of the BC ITA Heavy Duty Equipment Technicians program. During this course you will learn to diagnose and repair powertrain components.

HDMC 4000

Heavy Mechanical Apprenticeship Level 4 (120 hours)

This course is the fourth and final level of the BC ITA Heavy Equipment program. In it you will learn to diagnose and repair advanced hydraulic systems, electric drive systems, wheeled equipment steering, track machine steering, undercarriages, working attachments, and pneumatic systems.

HDME 1900

Heavy Duty/Commercial Transport Technician Trade Sampler (120 hours)

This course is a sampler of the Heavy Duty/Commercial Transport Technician trade based on the Heavy Duty/Commercial Transport Technician Foundation Program outline from the Industry Training Authority of BC. Students will gain familiarity with the safe use of hand tools, portable power tools and other equipment regularly used by Heavy Duty/Commercial Transport Technicians, as well as gaining familiarity with many of the materials used in the Trade. The emphasis of this course is on developing practical, hands-on Heavy Duty/Commercial Transport Technician skills.

Prerequisite: Completion of Grade 10

HEAL 1000 2 credits

Health 2: Lifestyle and Choices (30 hours)

Students are introduced to a holistic concept of health and the components of a health-enhancing lifestyle. Students are invited to reflect on their own experience of health recognizing challenges and resources that can impact lifestyle choices. Students are also introduced to a model that is applied in other courses understand the multi-faceted aspects of health and healing.

Prerequisite: Admission to the Health Care Assistant program

Corequisite: HEAL 1050 and HEAL 1150

HEAL 1010 3 credits

Health and Healing: Concepts for Practice (70 hours)

Developing a theoretical framework for practice, students are introduced to the philosophical values and theoretical understandings that provide a foundation for competent practice as a Health Care Assistant. This course focuses on concepts of caring and person-centered care, basic human needs, human growth and development; and family, culture and diversity as they relate to health and healing. Students are also introduced to a problem-solving model that will be critical to their practice.

Prerequisite: Admission to the Health Care Assistant Program

Corequisite: HEAL 1000, HEAL 1050, HEAL 1100, HEAL 1150 and HEAL 1200

HEAL 1050 3 credits

Health 1: Interpersonal Communications (50 hours)

This course focuses on the development of self-awareness, increased understanding of others and development of effective interpersonal communication skills that can be used in a variety of care-giving contexts. Students are encouraged to become more aware of the impact of their own communication choices and patterns. Participants develop and use communication techniques that demonstrate personal awareness, respect and active listening skills.

Prerequisite: Admission to the Health Care Assistant program

Corequisite: HEAL 1000, HEAL 1010, HEAL 1100, HEAL 1150, HEAL 1200, HEAL 1250, HEAL 1300 and HEAL 1350

HEAL 1100 2 credits

Health Care Assistant: Introduction to Practice (30 hours)

This course provides an introduction to the role of the HCA within the British Columbia health care system. Students are introduced to the healthcare team and the roles and functions of the HCA within the team. Students also have opportunities to develop self-reflective skills required for competent practice and will be introduced to effective job-finding approaches.

Corequisite: HEAL 1000, HEAL 1010, HEAL 1050, HEAL 1150 and HEAL 1200

HEAL 1150 3 credits

Healing 3: Personal Care and Assistance (120 hours)

This practical course offers students the opportunity to acquire personal care and assistance skills within the parameters of the Health Care Assistant role. The course is comprised of class and supervised laboratory experiences which enables students to integrate theory from other courses and develop caregiver skills that maintain and promote the comfort, safety and independence of individuals in community and facility contexts.

Prerequisite: Admission to the Health Care Assistant program

Corequisite: HEAL 1000, HEAL 1010, HEAL 1050, HEAL 1100 and HEAL 1200

HEAL 1200 4 credits

Healing 1: Caring for Individuals Experiencing Common Health Challenges (115 hours)

Students are introduced to the normal structure and function of the human body and normal bodily changes with aging. Students explore common challenges to health and healing in relation to each body system. Students also examine person-centered practice as it relates to the common challenges to health and, in particular, to end of life care.

Prerequisite: Admission to the Health Care Assistant Program and HEAL 1000

Corequisite: HEAL 1010, HEAL 1050, HEAL 1100, HEAL 1150, HEAL 1250, HEAL 1300 and HEAL 1350

HEAL 1250 3 credits

Practice Experience in Home Support, Assisted Living and/or Group Home Setting (60 hours)

Students are provided with an opportunity to apply knowledge and skills from all other courses with individuals and families in a community setting. Students become more familiar with the role of the Health Care Assistant within a Home Support Agency, Assisted Living Faculty and/or Group Home to gain abilities that will prepare graduates for employment in these settings. It is important that students understand the philosophy of community care setting and its emphasis on client choice and independence.

Prerequisite: Admission to the Health Care Assistant program, HEAL 1000, HEAL 1010, HEAL 1050, HEAL 1100, HEAL 1150, HEAL 1200 and HEAL 1350

Corequisite: HEAL 1300

Note: Students may only receive credit for one of HEAL 1250 or HLTH 1251

HEAL 1300 7 credits

Practice Experience in Multi-Level and/or Complex Care (210 hours)

This supervised practice course provides students with an opportunity to apply knowledge and skills from all other courses in the program with individuals in a multi-level or complex care setting. A portion of this clinical experience will be devoted to working with individuals experiencing dementia. Students gain expertise and confidence with the role of the Health Care Assistant within a residential care facility.

Prerequisite: Admission to the Health Care Assistant program, HEAL 1000, HEAL 1010, HEAL 1050, HEAL 1100, HEAL 1150, HEAL 1200 and HEAL 1350

Corequisite: HEAL 1200

HEAL 1320 3 credits

Psychosocial Rehabilitation Practice (70 hours)

Students continue to build on the concept of recovery in mental health care, integrating the knowledge gained in the HEAL 1310: Psychosocial Rehabilitation (PSR) course through a practicum experience, related assignments and seminar sessions. The course consists of 30 hours seminar and 40 hours practicum.

Prerequisite: HEAL 1310 and a Criminal Record Check

HEAL 1350 3 credits

Healing 2: Caring for Individuals Experiencing Cognitive or Mental Challenges (60 hours)

Building on content from other courses, students explore concepts and caregiving approaches that will allow them to work effectively with individuals experiencing cognitive or mental challenges.

Emphasis is on recognizing the behaviours and identifying person-centered intervention strategies.

Prerequisite: Addmission to the HCA Program
Prerequisite: HEAL 1000, HEAL1100

Corequisite: HEAL 1010, HEAL 1050, HEAL 1150, HEAL 1200, HEAL 1250 and HEAL 1300

HEAL 3330 3 credits

Death and Dying, Life and Living (3,0,0)

This course is an analysis of death, dying, and bereavement. It includes such topics as facing death, coping with dying, hospice care, bereavement, grief and mourning; funeral practices; lifespan perspectives on death; suicide; and assisted suicide, and euthanasia.

Prerequisite: Entry into second year Nursing program and open to students in other programs at the discretion of the instructor.

HIST 1000 3 credits

Topics in Global History (3,0,0)

Students explore special topics that provide a survey of one or more aspects of global history, such as a specific issue that affects many regions and crosses political boundaries, or within the methodology of global history itself, which seeks to reveal how seemingly local phenomenon are part of a broader, inter-connected world. Students learn key historical concepts and how to craft arguments based on historical source material. The specific topic(s) will be decided by the instructor and approved by the Department.

HIST 1030 3 credits

An Introduction to Ancient Greece and Rome (2,1,0)

In this course, students engage with the history of the Mediterranean world from classical Greece and Rome to the early Roman empire. Topics include the rise and decline of Hellenic civilization, early Rome and the Republic, the Augustan Age, and the foundations of imperial Rome.

HIST 1120 3 credits

An Introduction to Canadian History (2,1,0)

Students examine the development of Canada to 1867. An emphasis is placed on Aboriginal-European relations, the history of New France, military conflicts, the political and economic development of British North America, social and cultural history, and the project of Confederation.

HIST 1160 3 credits

Europe: 1500 - 1789 (2,1,0)

In this course participants learn to evaluate and understand the complex processes involved in the development of early modern Europe from 1500-1789. Topics include the Renaissance, the Reformation, Absolutism, the Enlightenment, and the outbreak of the French Revolution. Lectures and seminars introduce political, intellectual, cultural and social aspects of European society, and participants work with and discuss a variety of primary and secondary historical sources.

HIST 1220 3 credits

History of Canada, 1867 to the Present (2,1,0)

Students examine the political, social, military, and cultural history of Canada since 1867. Topic include state formation, relations with Britain and the United States, military engagements, social movements, regional and ethnic diversity, Aboriginal history, industrialization and urbanization, and French-English relations.

HIST 1260 3 credits

Europe: 1789 - 1939 (2,1,0)

In this course participants learn to evaluate and understand the complex forces involved in the development of the modern state. Topics include the French Revolution and Napoleonic Europe, the Congress of Vienna, the social and political struggles of the nineteenth and early twentieth century, and the fissures in European society during the interwar period. Lectures and seminars introduce the political, intellectual, cultural and social aspects of European society, and participants work with a variety of primary and secondary historical sources.

HIST 2020 3 credits

Native History of Canada (2,1,0)

Students explore the history of the Aboriginal peoples of what is now Canada. The course begins with pre-contact perspectives, however, emphasis is on the social, cultural, political, economic and military interactions between Aboriginal peoples and newcomers. Examples are drawn from all regions to reveal the breadth and variety of Aboriginal culture, history, and experience. Topics include Aboriginal involvement in the fur trade and later economic developments, the treaty-making process, and Aboriginal responses to government policy.

HIST 2160 3 credits

History of England: Roman Britain to the Glorious Revolution, 1688 (2,1,0)

This course is designed for those who wish an acquaintance with the broad sweep of British history. The course will examine the social, political, economic and religious issues which affected the following periods of British history: Roman, Norman, medieval, the Tudors and Stuarts.

HIST 2170 3 credits

Major Issues in American History from the Colonial Period to the Civil War (2,1,0)

This course examines the key political, economic, and social issues in the development of the United States from its colonial beginnings to the cataclysm of the Civil War.

HIST 2180 3 credits

Medieval Europe 1: From the Fall of Rome to the Crusades (2,1,0)

In this course, students engage with European civilization during the early and beginning of the central middle ages. An emphasis is placed on the development of various structures and their changes, the ordering of society, belief systems and ideas, the organization of communities, and the emergence of religious and political institutions.

HIST 2200 3 credits

*****Topics in British or European History (2,1,0)**

Students explore special topics that provide an introduction of British or European history, rather than an in-depth analysis of a narrowly defined topic. The specific topic(s) will be decided by the instructor and approved by the Department.

HIST 2250 3 credits

Cultural and Artistic Traditions of Europe (2,1,0)

Students are introduced to some of the major artistic and literary monuments and movements of the Western tradition, and investigate post-Renaissance cultural achievements in their historical context. Themes include humanism and the legacy of religious upheaval, the impact of science on philosophy, the challenge of neoclassicism, cultural responses to political and industrial revolution, and modernist experimentation.

HIST 2260 3 credits

History of England: The Glorious Revolution to Victorian Britain (2,1,0)

This course is designed to introduce students to British history from the Glorious Revolution of 1688 to the end of the reign of Queen Victoria. The course will examine the political, social and economic issues which determined Britain's development.

HIST 2270 3 credits

American History Since 1865 (2,1,0)

Students survey the history of the United States from the Civil War to the present, with an emphasis on the principal forces affecting the development of a distinctive social and political culture in the United States. Selected topics examine the emergence of the United States as a global economic, political, military, and cultural power.

Exclusion: Students cannot receive credit for both HIST 2270 and HIST 2271

HIST 2280 3 credits

Medieval Europe 2: From the Crusades to the Renaissance (2,1,0)

Students engage with the continuity in the economic, social, political, and religious foundations of high and late medieval Europe, and the accompanying philosophical, literary, artistic, and cultural achievements of European civilization during this period.

HIST 2480 3 credits

*****Topics in North American History (3,0,0)**

Students explore special topics that provide an introduction, rather than an in-depth analysis of a narrowly-defined topic, of North American History, allowing for more regional studies (e.g. "The Pacific Northwest") or more topical content. Specific topics for this course will be decided by the instructor and approved by the Department.

HIST 2700 3 credits

The History of Women in Canadian Society (2,1,0)

Students are introduced to the history of women in Canada. Organized chronologically and thematically, this course surveys women's history from the era of Aboriginal-European contact through to the postwar years. Topics include the family, the workplace, sexuality, education, and politics. An emphasis is placed on the diversity of women's experiences.

HIST 3000 3 credits

The Historian's Craft (3,0,0)

Students examine the practice of history, and the history of history: how the study of the past has changed over time. What do historians do, and why do they do it? What is the purpose of history? What is historical evidence, and how is it used? Students

examine these questions in an effort to broaden and deepen their understanding of the historian's craft.

Prerequisite: Students must have no fewer than 6 credits in recognized lower-level History courses and be a declared History Major

HIST 3010 3 credits

Canada in the Age of Nations (2,1,0)

Students examine Canada in the first half of the twentieth century: its imperial connections, the rise of nationalism, war and commemoration of both the Great War and World War II. A number of forces which marked these years are highlighted, especially technology and consumerism, and their accompanying social changes.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 3030 3 or 6 credits

The European Orient: Balkans, Russia and Eastern Europe (3,0,0) (3,0,0)

Students survey the cultures shaping Central and Eastern Europe, including Russia, examining the interplay between local and national culture, and between ethnic and political identity.

Prerequisite: Completed 45 credits (any discipline)

Cannot receive credit for more than one of: SOCI 3030, ANTH 3030, HIST 3030 or POLI 3070

HIST 3040 3 credits

The History of the Canadian Prairie West (2,1,0)

This course examines the history of the Canadian Prairie West from pre-Aboriginal-European contact to the modern era. Topics include an examination of the First Nations' traditional economic and social life, and their adaptation to the arrival of Europeans and the fur trade; the rise of the Metis and their changed economic and living conditions as a result of Canadian government policies; Euro-Canadian immigration and settlement; the Great War and the rise of nativism; the economic depression of the 1930s, as well as World War II and the modern West. Students investigate the myths versus the realities of 'cowboys and Indians', the ranching frontier, women, and Mounties.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 3050 3 credits

British Columbia (3,0,0)

This course explores the history of British Columbia from the beginnings of Aboriginal-European contact through to the post-World War II era. It examines the social, economic, political, and cultural development of British Columbia, and situates the province within national and international context. Topics include Aboriginal-European relations, the fur trade, immigration, the resource economy, military engagements, social reform, gender issues, class relations, and political developments. Throughout the course, key debates in the historiography of British Columbia are emphasized.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 3060 3 credits

Quebec: History and Politics (3,0,0)

Students examine the history and political development of Quebec, from the period of the French regime to modern French-English relations within Canada. Students focus on significant social and political developments in the modern period, such as the Rebellions of 1837-38, the emergence of the 'state of siege' mentality after 1840, the impact of industrialization and Confederation, the Quiet Revolution, and nationalism. Contemporary issues are also addressed, including recent debates over 'reasonable accommodation,' national identity, and the relationship between Quebec and Canada.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses, or POLI 1110 and one other Political Science class

HIST 3120 3 credits

Canada in the Cold War Era (2,1,0)

Students examine the history of Canada, from the end of the Second World War to the early 1990s. This course is organized thematically rather than chronologically. Topics include anti-Communism, immigration, sexual regulation and resistance, family ideals and realities, labour organizing, Aboriginal activism, and student radicalism.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 3140 3 credits

Tudor England, 1485-1603 (2,1,0)

Students investigate the political, religious, economic, cultural, and social transformations in England during the reigns of the Tudor monarchs. This period was one of dynamic, and at times violent, change, much of it within the context of the religious reformations. Students apply critical thinking skills as they conduct in-depth analysis of historical manuscripts and other key primary sources.

Prerequisite: 6 lower-level History credits

HIST 3150 3 credits

Stuart England, 1603-1688 (2,1,0)

This course is an exploration of the significant political, religious, economic, cultural and social developments in England during a time in which English men and women experienced civil war. Students consider the philosophical, ideological, and political factors contributing to the challenges emerging during this time to traditional faith, secular power, and religious authority. Analytical, critical thinking and interpretation skills are refined through a study of historical manuscripts and modern historical interpretations.

Prerequisite: 6 lower-level HIstory credits

HIST 3160 3 credits

European Social History (2,1,0)

Participants explore various social and cultural perspectives of European history. Aspects of domestic life, economic activity, religion, and popular culture provide the basis for related thematic considerations, including family and sexual relationships, social stratification, violence and public order, and leisure, ritual, and education in pre-industrial and industrial Europe. Participants work with a variety of complex historical sources.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 3170 3 credits

Ethnic, Cultural and Religious Identities and the Birth of Europe (2,1,0)

Students engage with the profound changes that marked the passage from the Western Roman empire to the European world which took place over many centuries. Students focus on the transforming identities of populations and cultures greatly affected by a rapidly changing world, filled with migrations, conquests, and evangelization, until a new European identity could be formed.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 3190 3 credits

Women in Medieval History (2,1,0)

Students engage with the roles and contributions of women in medieval history. The revolutionary changes in feminist and gender theory, and the problems medieval historiography has had to overcome in trying to uncover women's lives from this remote period of history are examined. Students focus on the diverse avenues open to medieval women for agency and independence, and their varied roles within a patriarchal society.

Prerequisite: No fewer than 6 credits in recognized lower-level history courses

HIST 3210 3 credits

Western European Political Thought: From Cicero to Machievelli (3,0,0)

Students examine the evolution of European political thought and its practical applications from Ancient Rome to the Renaissance. This course is an exploration of the major foundational theories and their influence upon the creation of institutional structures, and the governmental apparatuses and ideologies designed to uphold them.

Prerequisite: POLI 1210 (recommended - POLI 2220) or either HIST 1160, HIST 2180 or HIST 2280

HIST 3270 3 credits

American Colonial History: 1607-1763 (2,1,0)

Students examine the social, economic and political characteristics of the thirteen colonies as they changed from small European outposts to mature societies.

Prerequisite: Six lower-level history credits

HIST 3300 3 credits

The United States, 1812-1865 (3,0,0)

This course is an examination of the development of the new American nation, with special emphasis on expansion, regionalism, Jacksonian democracy, social reform, and the coming of the Civil War.

Prerequisite: Six lower-level history credits

HIST 3310 3 credits

The United States, 1865-1896 (3,0,0)

This course is an examination of the political and social development in Post-Civil War America, with special emphasis on Reconstruction, industrialization, and the Gilded Age.

Prerequisite: Six lower-level history credits

HIST 3360 3 credits

The United States, 1900 - 1945 (2,1,0)

Students focus on the political, social, and cultural history of the United States from 1900 to the end of World War II.

Prerequisite: Six lower-level history credits

HIST 3370 3 credits

The United States, 1945 - Present (2,1,0)

Students focus on selected issues relating to the political, social, and cultural history of the United States from the end of World War II to the present.

Prerequisite: Six lower-level history credits

HIST 3390 3 credits

The American Revolution and the Formation of the United States, 1763-1812 (2,1,0)

This course is a study of the revolutionary origins of the United States and the establishment of the American republic.

Prerequisite: Six lower-level history credits

HIST 3410 3 credits

The Emergence of Victorian Britain (2,1,0)

Students explore the far-reaching transformations in Britain as the nation moved into imperial expansion. Key topics include the institutional, political, and social responses to Britain's move into position as the world's first industrial and urban society. Lectures, discussions, and research engage students in an active critical analysis and interpretation of historical documents, as well as a modern historical anaylses of this period.

Prerequisite: No Fewer than 6 credits in lower-level History courses

HIST 3420 3 credits

Victorian Britain, 1850-1901 (2,1,0)

Students examine the responses to, and influences of, institutions, families, social groupings, religious institutions, aesthetic perspectives and other elements within British society, during the Victorian time period, in and outside of that society. Comprehension of the transformations and forces emerging in this society is enhanced through a study of historical documents, as well as a review of modern historical analyses and debates.

Prerequisite: No fewer than 6 lower-level History courses

HIST 3510 3 credits

The History of Childhood and Education (2,1,0)

Students consider the historic experience of children in Western society, particularly in Canada, while focusing on the place of education in children's lives. Educational structures are examined, including the development of leading and influential theories about the education of children.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 3520 3 credits

Knowledge and Belief in Medieval to Early Modern Europe (3,0,0)

Students complete an in-depth and active investigation into the intersections of early science, religious doctrine and practice, and popular beliefs, in Europe, during the period from 1000 A.D. to 1750. Philosophical, superstitious, medical, and technological concepts are considered, with an emphasis on the use of historical manuscripts and documents in research and discussion. Abstract concepts of science are clarified in their historical context, and the developments that brought science into its modern empirical form are studied.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 3530 3 credits

The Concentration Camp: Global History and Politics (3,0,0)

The Concentration Camp is an institution of the Twentieth Century. This course will give an overview of historical precedents for the concentration camp, such as the ghetto, and then will examine the history and politics of the concentration camp, from the Spanish-American and Anglo-Boer Wars near the turn of the century (the first times the term, "concentration camp", was used), to the more notorious examples of Nazi Germany and the Soviet Union. Other examples, such as camps in Canada and the USA, China, parts of Africa, and even the "War on Terror" will be examined in detail. Why have modern states - across the ideological spectrum - made use of the concentration camps against real and preveived enemies?

Prerequisite: Completion of 45 credits (any discipline) or permission of the instructor.

HIST 3610 3 credits

Britain, 1900 -1930 (2,1,0)

Students examine a wide range of aspects of British life and society, after the Victorian period, including the emergence of political parties; cross-party dynamics; social reforms; civil discontent; emergence of Labour interests and ideologies; 'Bohemian' culture and influences; class systems; women's challenges to traditional perspectives on the right to vote; economic transformations and responses to Depression; and British roles in World War I and in the interwar period. Students engage in active research in and discussion of the intercultural realities in Britain, using primary and modern sources.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 3620 3 credits

Britain, Since 1930 (2,1,0)

The Great Depression of the 1930s, and World War II contributed to tremendous socio-economic and political changes in Britain. Students investigate the legacies of such events through an analysis and discussion of the nationalization of British industry, the emergeing welfare state, immigration, and modern British culture. Students engage in a critical analysis of historical documents and modern perspectives.

Prerequisite: No fewer than 6 credits in lower-level History courses.

HIST 4030 3 credits

Topics in Canadian Gender History (2,1,0)

Students explore selected topics in the history of gender in Canada. Constructions of femininity and masculinity in Canadian history are examined, in addition to the experiences of women and men in the past. Topics may include paid work, sexuality, the family, courtship, religious participation, politics and activism, and leisure.

Particular attention is paid to the intersections between gender and race, ethnicity, class, and region.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 4050 3 credits

Topics in British Columbia History (3,0,0)

Students examine selected topics in the history of British Columbia. Topics may include race and racism, immigration, economic issues and development, social and cultural history, religion and society, postwar diversity and dissent, and/or political culture.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 4060 3 credits

Topics in Local History (2,1,0)

This course examines the history of Kamloops and region, with an emphasis on the methodologies and practices used to study history. Students explore various historical tools, methods, and sources, and gain hands-on experience in investigating and communicating local history.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 4120 3 credits

*****Topics in European History: Ancient to Early Modern (2,1,0)**

Students engage with various themes relating to the cultural, political, philosophical, religious, or economic history of the ancient Mediterranean, medieval, and early modern worlds. Cultural and social history is emphasized. Students are offered an opportunity to explore a unique subject matter (not normally offered in other courses), or further examine a specialised, scholarly field. Thematic considerations vary from year to year. Students may learn about the beginning or end of a civilization, cultural and religious change, or continuity from one civilization to the next.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 4130 6 credits

Reformation Europe (2,1,0)(2,1,0)

This course is an exmaination of European history during a time of intense religious change. Students are provided with material that is critical to a modern understanding of spiritual and doctrinal distinctions between denominations in Western society. Students investigate the Protestant and Cathcolic Reformations in the broader context of the political, social, artistic, and economic transformations during the early modern era.

Prerequisite: No fewer than 6 credits in lower-level History courses.

HIST 4200 3 credits

*****Topics in European History (2,1,0)**

Participants focus on selected themes relating to the cultural, social, political, institutional, or economic history of Europe. The course accommodates subject matter that is not usually offered in other courses, and themes vary from year to year. Participants learn the dynamics of complex historical processes related to such issues as domestic politics, the interaction of states, the formation of new states, social and economic transformations, and major cultural expressions. Advanced students of history focus on applying the skills they have learned in order to examine complex topics in European history.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 4250 3 credits

*****Topics in Canadian History (2,1,0)**

Students explore selected topics in the history of Canada. Topics may include immigration and ethnicity, war and society, environmental history, religion, sexuality, Aboriginal history, state formation, and popular culture.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 4350 3 credits

Topics in the History of the American Civil War (3,0,0)

Students examine America's greatest crisis, from its origins in the early nineteenth century to the abandonment of Reconstruction. Specific topics vary, however, emphasis is placed on the political, military, social, and cultural dimensions of the war.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 4460 3 credits

American Foreign Policy, 1945 to Present (2,1,0)

Students examine selected topics in American foreign policy, from World War II to the present.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 4480 3 credits

*****Topics in American Social History (3,0,0)**

Students focus on selected issues relating to the social and cultural history of the United States. Thematic considerations vary from year to year.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 4510 3 credits

Topics in Early Modern Britain (2,1,0)

Students examine aspects of British history typically in the forefront of modern research, from the period between the Protestant and Catholic reformations of the early 1500s and the Industrial Revolution of the 1700s. The topical focus of this course changes with each offering, however, the themes relate to the economic, social, religious, political and economic history of this period. Students engage in discussion and research that centres on historical documents, and modern historical interpretations and debate.

Prerequisite: No fewer than 6 credits in lower-level History courses.

HIST 4520 3 credits

Topics in Modern Britain (2,1,0)

This course is an in-depth examination of selected themes relating to the social, cultural, economic and political history of modern Britain, up to the present day. Discussions and lectures address diverse topics, which range from immigration issues and intercultural change in Britain to transformations in popular culture and political expectations. Students investigate subject matter which is often not offered in other courses, and utilize historical materials ranging from manuscripts to modern electronic sources.

Prerequisite: No fewer than 6 credits in lower-level History courses.

HIST 4710 3 credits

Communism and the Environment (3,0,0)

This course will focus on the history and politics of communism and the environment. As such, it will explore environmental issues and policies in the Soviet Union, China and Cuba. Students will examine other related issues, such as the writings of Marx, Engels, Lenin, and others; ideology, political philosophy and the environment; and the role of communism and socialism in environmental movements, today. Students will also be asked to compare environmental practices in communist countries with those of capitalist countries.

Prerequisite: Completion of 45 credits (any discipline)

Note: Same course as POLI 4710

HIST 4900 3 credits

*****Special Topics in History (0,3,0)**

Students analyze issues related to the theory and practice of historical work. Students wishing to explore unique areas of research in History, often with inter- and cross-disciplinary significance, may find this course especially relevant to their program of study. Students may be offered a unique opportunity to study with a scholar who is new to the faculty of History, and who brings specialization in research areas that are not usually addressed by the standard range of course offerings.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HIST 4910 3 credits

*****Reacting to the Past (3,0,0)**

Students adopt roles in this course, which are informed by classic history texts, and experience history through elaborate games set in the past. Students run class sessions entirely, while instructors advise and guide students and grade their oral and written work. Students experience the virtual world of Reacting to the Past (RTTP), engage wit big ideas, and improve their intellectual and academic skills. Events and time periods will vary for each course iteration as determined by the instructor and the Department.

Prerequisite: No fewer than 6 credits in recognized lower-level History courses

HLSC 2550 3 credits

Health Science 3: Introduction to Pathophysiology (3,0,0)

The major emphasis of this course is to gain a foundational knowledge of the concepts related to human pathophysiology. The course examines the presentation and pathogenesis of health challenges across the life span including genetics, nutrition, immunology, and environmental impacts on health. Topics are closely coordinated with the practice and nursing courses.

Prerequisite: Year 1

Corequisite: NURS 2730, NURS 2740

HLSC 2650 3 credits

Health Science 4: Pathophysiology (3,0,0)

The major emphasis of this course is to build on concepts related to human pathophysiology introduced in Health Science 3 but with increasing complexity. This course examines the presentation and pathogenesis of health challenges across the life span including genetics, nutrition, immunology, and environmental impacts on health. Topics are closely coordinated with the practice and nursing courses.

Prerequisite: HLSC 2550, NURS 2740

Corequisite: HLSC 2660, NURS 2840

HLSC 2660 3 credits

Health Science: Pharmacology (3,0,0)

The emphasis of this introductory course is to gain a foundational knowledge on the essential pharmacological principles and the major drug classifications. Consideration will be given to client education, pharmacognasy, adverse effects, and medication administration safety. The major concepts of this course will be examined across the lifespan.

Prerequisite: Semester 3

Corequisite: HLSC 2650, NURS 2830

HLSC 3020 3 credits

Data Analysis in the Health and Human Service Professions (3,0,1)

This course is designed to facilitate learner understanding of the data analysis process in relation to research based professional practice in nursing and social work.

Students apply a range of analytical techniques to both qualitative and quantitative data. This course enhances the learner's ability to analyze data and critically review research literature applicable to their professional practice.

Prerequisite: NURS 3600

Required Lab: HLSC 3020L

HLSC 3040 3 credits

Environmental Change - Challenges for Health (3,0,0)

This course introduces students to the most recent developments in the science of climate change and the resulting impact on the health of populations worldwide. Changes in disease risk and emerging diseases and conditions are reviewed. Since health care is one of the most wasteful systems in regard to its carbon footprint, various efforts to reduce greenhouse gas emissions are reviewed. Students discuss the effects of global warming and how it necessitates new approaches to health and new responses to the spreading of tropical diseases.

Prerequisite: 3rd year standing or permission of the instructor

HLSC 3550 3 credits

Health Science 5: Advanced Pathophysiology (3,0,0)

This course builds on concepts introduced in Health Science 3 and 4 with an emphasis on multisystem or highly complex health challenges. The presentation and pathogenesis of health challenges across the lifespan are examined, including a major focus on immunology, and where applicable, genetics, nutrition, and environmental impacts on health. Topics are closely coordinated with practice and the health courses.

Prerequisite: Year 2 or with permission from the instructor

Corequisite: NURS 3730

HLSC 3690 3 credits

Human Sexuality for Health Professionals (3,0,0)

Sexuality is an important aspect of human health. This course advances a health care professional's capacity to address issues of sexuality and sexual health with

clients across the lifespan. Theories and research informing health professionals of sexual development, gender, sexual orientation, sexual practices, and sexual health are examined. Self awareness, along with the development of skills to address sexuality inclusion in professional practice, is central to course objectives.

Prerequisite: Evidence of third-year standing in a health professions program leading to an undergraduate degree and completion of a communication or counselling course; or evidence of a health-related professional credential requiring a minimum of two years academic preparation; or by permission of the instructor.

HLSC 3830 3 credits

Health and Healing: Global Health Perspectives (3,0,0)

Participants develop an understanding of people's experience with health and healing related to a variety of increasingly complex chronic and episodic global health challenges and issues. Emphasis is placed on the role of the nurse as care provider, community organizer and facilitator, educator, and advocate within the context of the global society and the changing health care environment. Learners examine a variety of emerging health issues and trends using these as a context for further developing a personal understanding of nursing practice that supports meaningful interactions with individuals, families, groups, communities, and society.

Prerequisite: BSN students - successful completion of Semester 5; Post-RN students - permission of the Post-RN advisor; students in other disciplines - permission of the instructor

HLTH 2300 3 credits

Interdisciplinary Indigenous Health (2,1,0)

This course introduces students to Indigenous people's health in Canada. Students experience Indigenous ways of knowing through a decolonization framework, engaging in local knowledge, methodologies and practices of Indigenous peoples. Students engage in experiential, reflexive learning informed by local Knowledge Keepers. The course embraces Indigenous Knowledge and uses the premise of 'two-eyed seeing'. Students are guided through an inter-professional framework of practice to facilitate collaboration and planning of services to improve Indigenous health.

Prerequisite: Completion of semester 3 of the BScN program. Special arrangements with the instructor

Required Seminar: HLTH 2300S

HLTH 3200 3 credits

Field Course in Cardiopulmonary Healthcare (0,2,0,5)

Students examine cardiopulmonary health issues, approaches, and the people involved in healthcare in a selected country. Students work alongside local healthcare professionals to provide assessment, treatment, and education in cardiopulmonary health.

Prerequisite: Enrollment in or completion of a health profession program; completion of RESP 2590 or equivalent; or with permission of the Chairperson, Allied Health Department, Faculty of Science. Respiratory Therapy program students are given preferential admission to this limited enrollment course, however, students in other health related programs are eligible for admission.

HLTH 5200 3 credits

The Canadian Healthcare System (3,0,0)

This course examines the structure and functioning of the Canadian healthcare system in the context of Canadian society, including challenges to the provision of quality care. Students will critically analyze the role of advanced practice in the healthcare system, using the concepts of principled leadership, politics, macroeconomics and the determinants of health as they apply at the local, provincial, territorial and national levels. Comparisons with healthcare systems in other countries will also be made. The emphasis will be on application of knowledge to practice contexts.

Prerequisite: Recommended - Admission to Graduate Studies, NURS 5100

HLTH 5300 3 credits

Leadership and Managing Change in Healthcare (3,0,0)

This course examines leadership and management theories in the context of healthcare delivery. Participants will develop leadership skills in advocating for clients and nurses to achieve optimal health outcomes and quality practice environments. Students will examine the literature on the development of strategic collaborative partnerships, build conflict management skills, develop strategies to communicate vision, policy and program directions, increase their ability to assess gaps and capacities in the design of programs, strategies, and policies, and demonstrate team building skills.

Prerequisite: Recommended - NURS 5100, HLTH 5200

HLTH 5500 3 credits

Integrating Information Technology in Healthcare (3,0,0)

This course will address ethical and appropriate applications of information technology to enhance knowledge development, knowledge transfer, and patient care within healthcare settings. Students will develop advanced understanding and skills in concepts such as the integration of technology within healthcare systems, data storage and retrieval, patient and heath practitioner education, and ways that technology may support complex decision-making, inter-disciplinary communication, and evaluation of healthcare outcomes. Future uses and/or designs of technology will be discussed. Integral to the course will be enhancing students' ability to adapt to as well as influence the design of continually evolving types, uses, and forms of information technology in healthcare.

HLTH 6000 3 credits

Research in Healthcare (3,0,0)

The focus of this course is the development of knowledge and skills to conduct research. Specific emphases are: theory and conduct of studies in various research traditions, appraisal of studies for scientific merit, interpretation and dissemination of research findings, research utilization and evidence based practice.

Prerequisite: NURS 5100 or Prior Approval of Dean and Graduate Program Coordinator.

Recommended - HLTH 5200.

HLTH 6300 3 credits

Aboriginal Health Leadership (3,0,0)

In this course leadership best practices for effective, culturally relevant Indigenous people's healthcare are examined. Participants develop knowledge of Indigenous peoples' history, traditional perspectives, health-wellness practices, and challenges inherent in the complex and interrelated socio-cultural, historical, and contextual determinants that influence health. Participants analyze Indigenous and mainstream knowledge/practices and how each shapes service design and delivery. The importance of respectful relationships, partnership, and Indigenous leadership in improving healthcare access and outcomes is explored. Course activities will strengthen participant abilities to draw on the literature and other information sources to inform program and policy development, knowledge translation, and evaluating program effectiveness as well as assist in preparing for a major paper or thesis in the area of Indigenous peoples' health.

Prerequisite: HLTH 6000

Recommended Requisites: HLTH 5300, HLTH 5200 and NURS 5100

HMGT 1110 3 credits

Catering and Service Management (3,0,5)

This course presents a basic overview of the principles of catering and service management in a hospitality environment. Students review and critique styles of service, and develop an understanding of how to make food and beverage outlets more guest-friendly and profitable. Service management is introduced by both theory and practice, and students reflect on contemporary issues related to providing service excellence in different service environments.

Prerequisite: English 12/English 12 First Peoples with a minimum of 73% (within the last five years), or Level 4 on the composition section of the LPI (within the last two years), or completion of ENGL 0600, or completion of ESAL 0570 and ESAL 0580 with a grade of C+ or better. Serving It Right and Foodsafe Level 1.

Required Lab: HMGT 1110L

HMGT 1210 3 credits

Food and Beverage Preparation (1,1,3)

This course explores the techniques and procedures of quality and quantity food production and service, and provides the principles underlying the selection, composition and preparation of major food products. Students gain practical experience by working one night per week in the College Dining Room kitchen or an off-campus kitchen for the applied portion of this course.

Prerequisite: Foodsafe Level 1

Required Lab: HMGT 1210L | Required Seminar: HMGT 1210S

HMGT 1410 3 credits

Hotel Operations 1 (3,0,0)

The intent of this course is to help prepare students for positions in the hotel industry by providing an overview of the complexities of the Hospitality industry. Students are introduced to the history of the hotel industry, current industry trends and the various departments and managers' responsibilities that are key elements of a hotel operation. Through lectures, presentations, assignments and readings, students complete this course with a foundation in practical and theoretical hospitality.

Prerequisite: English 12/English 12 First Peoples with a minimum of 73% (within the last five years), or Level 4 on the composition section of the LPI (within the last two years), or completion of ENGL 0600, or completion of ESAL 0570 and ESAL 0580 with a grade of C+ or better.

HMGT 2100 3 credits
Food and Beverage Cost Control (3,0,0)
This course covers the principles and procedures involved in an effective food and beverage control system. Students are introduced to the logic and the systems involved with managing costs, from maintaining sales and cost histories to developing systems for monitoring current activities and projecting future profits. Additional topics include budgeting techniques, standards determination, purchasing systems and menu pricing.

Prerequisite: ACCT 1000 and basic computing experience

HMGT 2110 3 credits
Resort Management (3,0,0)
This course offers a complete approach to the operation of resort properties. Beginning with historical development, details are presented in planning, development, financial investment management and marketing that deal with the unique nature of the resort business. The course also examines the future and the impact of the condominium concept, time sharing, technological change and the increased costs of energy and transportation.

HMGT 2120 3 credits
Hotel Sales and Service (3,0,0)
This course provides insight into the scope and various segments of the groups market and shows the relationship between professional service and operational success. Students will be given a comprehensive introduction to the complexities of managing a convention facility as well as exposure to key group markets and techniques for attracting them to the property. Prerequisite: TMGT 1150 or equivalent

Note: Students cannot receive credit for both HMGT 2120 (C+ minimum) and MKTG 3450

HMGT 2210 3 credits
Food and Beverage Management (2,1,1)
This course discusses the management of Food and Beverage Operations within a hotel. Students will learn aspects of front of the house and back of the house operations of this department and will have an overview of the complexities of managing this dynamic area. Topics that will be covered include: product knowledge, legal issues, responsible beverage service, industry trends, service styles, marketing, sales and profitability.

Prerequisite: HMGT 1110, HMGT 1210, Foodsafe Level 1. Minimum age requirement of 19 years of age.

Required Lab: HMGT 2210L

Required Seminar: HMGT 2210S

HMGT 2500 3 credits
Field Experience (0,2,3P)
This course offers students the opportunity to connect academic course work with practical application by participating in a multi-day field experience within a world-class destination. Prior to engaging in the field experience, students use seminars to develop a deeper understanding of the field experience. Students research the chosen destination, set personal and group objectives, liaise with industry partners and plan their travel itinerary within a budget. Upon return, the students undertake reflective oral and written assignments.

Prerequisite: Students must be enrolled in the 2nd year of the Resort and Hotel Management program

Note: This course has an activity fee attached

HMGT 2510 3 credits
Hotel Operations 2 (3,0,0)
A continuation of HMGT 1410, the intent of this course is to focus student learning on the rooms division area of hotel management. Regardless of the level or variety of services offered by the lodging facility, essentially all properties provide accommodation and the services required to register the guest and ensure that the guestroom is maintained. Therefore the focus of this course is on the guest cycle (reservations, registration, occupancy and check-out). Students are introduced to basic front office operating procedures theory and application with a Hotel Property Management System (PMS) as well as principals of revenue management, hotel security and housekeeping issues.

Prerequisite: HMGT 1410

HMGT 2610 3 credits
Resort and Hotel Operations (3,0,0)
This course builds on concepts learned in Hotel Operations 1 and 2, and provides students with an introduction to the operation of resort properties. Course content includes a historical perspective of resort development, followed by planning, developing, managing and marketing issues that are unique to resorts operations. Students also use a hotel operational training simulation (HOTS), in a business simulation exercise, to integrate management concepts learned throughout Resort and Hotel Management courses.

Prerequisite: HMGT 1410 and HMGT 2510

HMGT 3000 3 credits
Resort Hospitality Operations and Performance (3,0,0)
This course provides students with professional and technical knowledge about the management of hospitality facilities, especially in the context of resorts. Emphasis is on the exploration of the complex factors that can influence the survival and development of hospitality enterprises. Students will evaluate issues of efficiency and effectiveness of diverse operating procedures in the delivery of the hospitality product to the consumer within the context of resorts. Topics covered include the need, and the resources required, for staging events such as banquets and conferences and the impact of the events sector on the hospitality field and on resort communities in particular.

Prerequisite: Third-year standing

HMGT 4800 3 credits
Resort Management Case Study (3,0,0)
In this capstone course, students synthesize and apply theoretical and practical knowledge gained throughout their coursework in the Resort Experience concentration in the Bachelor of Tourism Management, toward problem-solving in the context of a hypothetical or real resort organization. Working in small groups, students take on the role of a research and consultancy team and produce a report advising how specific problems or issues may be resolved.

Prerequisite: TMGT 3050 and either 4th year standing in the Bachelor of Tourism Management's concentration in Resort Experience or 2nd year standing in the Post-Baccalaureate Diploma in Resort Experience Management

HORT 1500 2 credits
Basic Horticulture (38 hours)
This course introduces students to plant structure, growth and development. Topics to be covered include structure and function of plant parts, plant classification, nomenclature and identification, germination, photosynthesis and respiration, plant hormones and environmental effects on plant growth and development. Prerequisite: Admission to the Horticulture program

HORT 1510 2 credits
Greenhouse Production (38 hours)
Students learn about the basic structure of greenhouses, heating and ventilating systems, soil mixes, supplemental lighting, fertilization, chemical growth regulators and irrigation systems.

Prerequisite: Admission to the Horticulture program

HORT 1520 2 credits
Diseases and Insect Pests (38 hours)
The course deals with insect structure and development, important insect orders, causal agents of plant diseases and disorders, and various control measures. Prerequisite: Admission to the Horticulture program

HORT 1540 2 credits
Soil Science (38 hours)
The topics covered in this course include components of soil, texture, porosity, conductivity, cation-exchange capacity, salinity, soil organisms, mineral nutrients and soil amendments.

Prerequisite: Admission to the Horticulture program

HORT 1600 1 credits
Weeds (26 hours)
In this course, students study the biology of weeds, identification of weeds, control measures and common herbicides.

Prerequisite: Admission to the Horticulture program

HORT 1610 1 credits
Nursery Production and Retailing (26 hours)
Nursery production is an important aspect of the horticulture industry in British Columbia, with a significant volume of landscape plants exported to the rest of Canada. Topics to be covered include site selection, management of field and containerized stock, plant propagation, fertilization, soil mixes and irrigation. Additional topics include the retailing of nursery stock and horticultural products in a garden centre. Prerequisite: Admission to the Horticulture program

HORT 1620 1 credits
Fruit and Vegetable Production (26 hours)
The topics of fruit production examined in this course include site selection, rootstocks, pollination, pruning, and the use of chemical growth regulators. Areas covered in vegetable production include seed germination, growing transplants, cultivation, fertilization, irrigation and the cultural requirements of selected important vegetables. Prerequisite: Admission to the Horticulture program

HORT 1630 1 credits

Landscaping (26 hours)

Landscaping is an important and integral part of the urban environment. Students explore the principles of landscape design, developing a landscape plan, hard landscaping, landscape installation and landscape maintenance.

Prerequisite: Admission to the Horticulture program

HORT 1640 1 credits

Turfgrass Management (26 hours)

Students learn about the botany of grasses, selection of different grass species, seeding and sodding of lawns, fertilizers, irrigation, mowing and cultivation.

Prerequisite: Admission to the Horticulture program

HORT 1700 3 credits

Horticulture Practical 1 (595 hours)

Practical sessions are an integral part of the program and are designed to give students hands-on experience in developing required skills. The following are the major topic areas followed by the apportioned class hours: Plant Studies (30), Insect Studies (13), Soil Studies (10), Weed Studies (8), Indoor Plant Identification (14), Landscape Plant Identification (30), Plant Propagation (39), Greenhouse Crop Production (33), Greenhouse Practices (59), Grounds Maintenance (71), Landscape Design (45), Landscape Installation (71), Pruning (15), Basic Carpentry (25), Small Engines (25), Pesticide Dispensers and Applicator's Course (18).

Prerequisite: Admission to the Horticulture program

HORT 1800 3 credits

Horticulture Practical 2 (595 hours)

In this second term continuation, students resume their study of the topics listed in HORT 1700.

HORT 1900 3 credits

Horticulture Practicum

The objective of this practicum is to enhance and culminate the education acquired within the university environment with work experience at participating businesses and organizations. This practicum allows students to solidify information learned at Thompson Rivers University, to see its application in the workplace, and to participate in the day-to-day operation of a business. Through the practicum, students gain a deeper insight into the direction they wish to pursue within the horticulture industry.

Prerequisite: Admission to the Horticulture program

HORT 2000 3 credits

Greenhouse Production (2,0,4)

Students are provided an opportunity to acquire new skills and improve on existing skills in a hands-on work-related environment. The main emphasis of this course is bedding plant production.

Prerequisite: HORT 1510 or permission of the instructor

Required Lab: HORT 2000L

HORT 2500

Horticulture Technician Foundation (900 hours)

This course will provide the foundation knowledge required to become a "Landscape Horticulturist". They select, handle and utilize trees, shrubs and ornamental plants and turf grass for the design, development and maintenance of public and private landscaping spaces. They also prepare soil, plants, cultivate, prune and irrigate to maintain plant vigor. Furthermore they control plant pests utilizing appropriate integrated pest management techniques.

The program is intended to serve as a common core towards years one and two of Production Horticulturist, Landscape Horticulturist and Arboriculturist (when developed) and enable graduates to follow three possible career paths:

1. Entry into industry as skilled worker

2. Academic credits towards second year of 2-year diploma program

3. Entry into level three of Horticulture (Production & Landscape) Apprenticeship Program

Prerequisite: Grade 10, Science, Math and English 10, Grade 12 preferred

HRMN 2820 3 credits

Human Resource Management (3,0,0)

Students are introduced to the management of an organization's workforce through the design and implementation of effective human resource policies and procedures. Current Canadian issues and practices are emphasized. The topics include the strategic role of human resources management; human resources planning; job analysis and design; recruitment and selection; employment equity; compensation; training and development; performance appraisal; occupational health and safety; and employee and industrial relations.

Prerequisite: CMNS 1290; ORGB 2810

Note: Students may not receive credit for more than one of HRMN 2820, HRMN 3820 and TMGT 1140

HRMN 3820 3 credits

Human Resources (3,0,0)

Students are introduced to the management of an organization's workforce through the design and implementation of effective human resource policies and procedures. Current Canadian issues and practices are emphasized. The topics include the strategic role of human resources management; human resources planning; job analysis and design; recruitment and selection; employment equity; compensation; training and development; performance appraisal; occupational health and safety; and employee and industrial relations.

Prerequisite: CMNS 1290; ORGB 2810

Note: This course should be taken by students in the minor in Management only.

Students may not receive credit for more than one of BBUS 3810, HRMN 2820, HRMN 2821, TMGT 1140 or BBUS 3811.

HRMN 3830 3 credits

Human Resource Planning and Staffing (3,0,0)

Students examine the policies and procedures for the planning, acquisition, deployment, and retention of a workforce of sufficient size and quality to allow an organization to attain its strategic goals. Topics include the strategic importance of staffing; the staffing environment; human resource planning; job analysis and design; recruitment; applicant screening; employee testing; interviews; references; decision making; employment contracts; methods of evaluating the hiring process; deployment; and retention.

Prerequisite: HRMN 2820 or HRMN 3820

Note: Students can not receive credit for more than one of HRMN 3831, BBUS 4810 or HRMN 3830

HRMN 3840 3 credits

Employee and Labour Relations (3,0,0)

Students explore the different aspects of union-management relations focusing on both the Canadian and international experience. The topics include an introduction to labour relations; labour relations environment; union membership, structure and actions; employment legislation and the Labour Relations Act; collective bargaining; managing the collective agreement; dispute resolution; human resources in an union environment; international labour relations; and future trends and issues in labour relations.

Prerequisite: HRMN 2820 or HRMN 3820

Note: Students cannot receive credit for more than one of BBUS 3840, BBUS 3841, HRMN 3841 or HRMN 3840

HRMN 4830 3 credits

Total Rewards (3,0,0)

Students develop an understanding of the different rewards systems available to employers to attract, motivate and retain a sufficient number of qualified employees. The topics include the components of total rewards; the rewards environment; motivational theories and rewards; rewards strategies; types of compensation; non-monetary rewards; and rewards and performance management, attraction, and retention.

Prerequisite: HRMN 2820

Note: Students cannot receive credit for more than one of BBUS 4830, HRMN 4830, HRMN 4831 or HRMN 4830

HRMN 4840 3 credits

Organizational Learning, Training and Development (3,0,0)

Students examine the educational activities provided by organizations to enhance the current performance of individuals or groups of employees and instil a commitment to continuous improvement and advancement. They study how organizations can become more adaptive by learning from their experiences and reacting more quickly to environmental change. Topics include organization learning; training and development; learning and motivation; needs analysis; training design, methods, and delivery; transfer of training; training evaluation; and cost and benefits of training programs.
Prerequisite: HRMN 2820

HRMN 4890 3 credits

Human Resource Strategy and Professional Practice (3,0,0)

Students examine a selection of contemporary issues in human resource management. Topics include occupational health and safety, human resource information management, and professional practice.

Co-Requisite: HRMN 3830 and HRMN 3840

Note: Students may not receive credit for more than one of HRMN 4890, HRMN 4891, or BBUS 4860

HUMS 1300 3 credits

Introduction to Mental Health (3,0,0)

This course is an excellent introduction to the field of mental health care for those working in the field of human services.

Topics include community mental health issues for children, youth, and adults, and the philosophy and values which direct care. Students reflect on person-centred practice, facilitative communication, behaviour management, non-violent crises intervention, the mental health system, and evidence-based practice. Students also have an opportunity to examine practice issues such as cultural competence, the ethics of care, and service delivery models. An overview of various disorders is presented, while mental health is examined through a best-practices approach that encompasses grounded theory, new developments in the field, problem solving, and current research.

Prerequisite: Acceptance in the Human Service Diploma program

Corequisite: Acceptance into the Human Service Diploma program

HUMS 1540 3 credits

Introduction to Interpersonal Communications and Helping Relationships (3,0,0)

Students explore self-awareness as a foundational concept in the development of competent human service workers. The focus is on furthering self-knowledge and facilitating the development of self-reflection skills. Students build personal awareness, self-understanding and effective interpersonal communication by examining aspects of self, such as motivations, emotions, values, attitudes, beliefs, perceptions, learning styles, personal styles, and self-concept.

Note: Students cannot receive credit for more than one of HUMS 1541, ECED 1340 or HUMS 1540

HUMS 1560 3 credits

Introduction to the Family in Human Service Practice (3,0,0)

Students examine multiple family structures in Canadian society providing the groundwork for beginning practice with families in human service work. Personal values and perceptions related to traditional and non-traditional family

types are explored. Topics include the current and historical social, political, cultural, and economic influences on today's families, family of origin and intergenerational trauma issues, family systems theory, and family

communication patterns.

Prerequisite: Admission to the Human Service Diploma Program or Program Coordinator permission

Note: Students cannot receive credit for both ECED 2440 and HUMS 1560

HUMS 1580 3 credits

Introduction to Human Service Professional Practice (3,0,0)

Students review the field of human service practice beginning with an overview of personal and professional values and ethics that are key elements of practice. Additional topics include observation, record keeping, community mapping, supervision, team work, and self-care.

Prerequisite: Admission to the Human Service Diploma program

Note: Students cannot receive credit for more than one of EDCS 1580, HUMS 1581 or HUMS 1580

HUMS 1590 3 credits

Practical Skills for Community and School Support Workers (3,0,2)

This course introduces Community and School Support students to the practical aspects of supporting individuals with disabilities in classroom, community and home settings. Students participate in 3 specific learning modules during the semester that cover a variety of healthcare, educational and social supports and which vary according to local need. This course is designed to provide instruction for students working in small community and rural settings.

Prerequisite: Admission to the Community and School Support program

HUMS 1600 3 credits

Human Service Field Education - Year 1(0,2,14)

Students participate in a 190-hour blended community service learning practicum to establish linkages between Human Service knowledge, values and skills. Students experience supervised opportunities to demonstrate self-knowledge and self-awareness, professional integrity, and positive working relationships in a human service agency. The focus is on the application of core human service concepts and the recognition of the knowledge to practice relationship.

Prerequisite: HUMS 1540 with a C grade or better, HUMS 1580 with a c grade or better. Admission to the Human Service Diploma Program

Note: Students cannot receive credit for more than one of EDCS 1680, HUMS 1601, HUMS 1680 or HUMS 1600.

HUMS 1610 3 credits

Interviewing Skills for Social Service Practice (3,0,0)

Students review various interviewing skills and techniques, and develop the skills to complete informational and referral interviews as well as facilitate problem-solving interviews. This course offers lecture, discussions, and videotaped practice of simulated interviews.

Prerequisite: Admission to the Human Service Diploma program ENGL 1100, PSYC 2130, HUMS 1770, HUMS 1540, HUMS 1580

Note: Students cannot receive credit for more than one of HUMS 2530, HUMS 2531 or HUMS 1610

HUMS 1640 3 credits

Foundations of Community and School Support Work (3,0,0)

This course introduces students to the theory and perspectives necessary for understanding issues related to supporting individuals with exceptionalities.

Students will learn about significant historical movements in education and community to current practices of inclusion. Specific exceptionalities, their characteristics and etiology will be covered. As well, learning about social relations and family dynamics are addressed.

Prerequisite: Admission to the Human Service programs

HUMS 1650 3 credits

Understanding Behaviour: Learning for Independence (3,0,0)

This course introduces students to nonaversive intervention strategies for dealing with problem behaviour. Students will learn the role of team approach, individual program planning and ethics in the development of a behaviour support plan. An educative approach to behaviour change is emphasized.

Prerequisite: All Fall semester courses. Admission to the Human Service programs.

Required Seminar: HUMS 1650S

HUMS 1660 3 credits

Health Care Principles (3,0,0)

This course overviews the theory and application of preventive health care planning and personal care principles. Areas of study include body mechanics, basic anatomy and physiology of body systems, nutrition, recognition of illness, referral procedures to health care services and issues related to basic pharmacology. Ethical and legal concepts of human service work in relation to health care practice will be discussed.

Prerequisite: Admission to the Human Service programs

HUMS 1750 3 credits

Alternative and Augmentative Communication (3,0,0)

This course introduces students to a range of communication strategies used in working with children and adults who have limited or not verbal skills. Technological supports for communication will be introduced.

Prerequisite: All Fall semester courses. Admission to the Human Service Programs.

HUMS 1770 3 credits

Introduction to Human Service Practice with Indigenous Communities (3,0,0)

Students examine the historical and continuing process of colonization in Canada, and the resulting societal, political, linguistic, spiritual, and cultural impacts that are challenging First Nations people today. The development of cultural understanding and the beginning of culturally competent practice occur in this course. Additional topics include self-government, cultural healing and empowerment, and human service practice in First Nations communities.

Prerequisite: Admission to the Human Service Diploma program or permission of the Program Coordinator | Note: Students cannot receive credit for both HUMS 1771 and HUMS 1770.

HUMS 1790 3 credits

Community Resources (2,2,0)

Students are provided an introductory opportunity to work with clients in social service and community support settings, and to identify important aspects of reflective human service practice. These include the use of self, the importance of establishing relationships, and the use of supervision. Students are required to complete a structured volunteer experience in an approved community agency and to participate in a series of bi-weekly seminars that discuss a framework to undertake human service practice with clients.

Prerequisite: Admission to the Human Service Diploma program

HUMS 2000 3 credits

Introduction to Fetal Alcohol Spectrum Disorder (3,0,0)

Students are provided an overview of Fetal Alcohol Spectrum Disorder, including the effects of alcohol during pregnancy, diagnostic criteria, assessment, and current research. Students also explore addiction issues related to gender, harm reduction, and the historical, cultural, and moral implications of addiction. Students have an opportunity to identify and analyze their beliefs and values related to addictions and invisible disabilities.

HUMS 2010 3 credits

Community Advocacy and Teaming (3,0,0)

Students develop specific skills and knowledge that can be applied to advocacy for children, youth, and adults facing significant social disadvantages, such as disabilities, poverty, and mental health problems. Community systems are examined in terms of how practitioners can facilitate support for clients facing multiple barriers. Prevention programs and community teaming possibilities are discussed, and students are provided opportunities to discover existing resources and identify gaps in services, from a community perspective, for specific populations (such as people with Fetal Alcohol Spectrum Disorder - FASD).

HUMS 2030 3 credits

Fetal Alcohol Spectrum Disorder - Developmental Perspectives (3,0,0)

This course is designed to help students situate their work, with individuals affected by Fetal Alcohol Spectrum Disorder (FASD), within a developmental context. Students explore fetal alcohol effects as they are experienced across the lifespan, from infancy to adulthood, as well as within specific social systems (family, community, workplace, school, and leisure-related settings). Secondary disabilities are addressed with attention to how these develop over time. Strategies for addressing secondary disability issues are discussed.

HUMS 2040 3 credits

Fetal Alcohol Spectrum Disorder - Field Practice (3,7,0)

The primary purpose of this practicum course is to provide opportunities for both demonstration and evaluation of the students understanding and response in supporting individuals and communities coping with fetal alcohol spectrum disorder. Students with field experience may choose to do a reflective research project which will connect their theoretical knowledge to practice. Those students with limited field experience will have the opportunity to practice in the field for a 12 week period - 1 day a week. During these 12 weeks there will be a 3 hour seminar held weekly in which students can, in consultation with their peers, discuss ethics, practice and application of skills in supporting individuals, families and communities.

Prerequisite: HUMS 2000, HUMS 2010, HUMS 2030

Corequisite: HUMS 2000, HUMS 2010, HUMS 2030

HUMS 2060 3 credits

Introduction to Social Work Practice (3,0,0)

Students explore the profession of social work through an examination of the history, philosophical foundation, and contemporary theoretical perspectives. Topics include an overview of social work theories, roles, and practice models, including the relevant Codes of Ethics and Practice Standards, as they apply to individuals, families and communities. A primary focus of the course is understanding individuals, families and communities using a social justice perspective which examines the social structures that influence people's lives, and lead to various sources and forms of oppression and marginalization in Canadian society.

Prerequisite: Admission to the Human Service Diploma Program or permission of the Program Coordinator

HUMS 2120 3 credits

Introduction to Social Welfare in Canada (3,0,0)

Students examine the history and development of human services and social welfare policy in Canada. Topics include poverty, with particular reference to women and Indigenous People, as well as major political ideologies and their impact on social policy. Students explore the structure of government and the development of a social security system in Canada, and one model for policy analysis is introduced.

Prerequisite: Admission to the Human Service Diploma program or permission of the Program Coordinator

Note: Students cannot receive credit for more than one of SOCW 2120, SOCW 2121 or HUMS 2120

HUMS 2210 3 credits

Introduction to Supporting Autism Spectrum Disorder (3,0,0)

This course explores the etiology and characteristics of autism spectrum disorder (ASD) as well as evidence-based strategies for supporting individuals with Autism Spectrum Disorder (ASD) in classroom, community and home settings across the lifespan. This course is intended for community and classroom support ractitioners, but is a good introduction for anyone, including family members wanting to gain knowledge and strategy for accommodating and supporting individuals diagnosed on the autism spectrum.

HUMS 2220 3 credits

Theoretical Foundations in Human Service Practice (3,0,0)

Students are introduced to various theories for human service practice. By examining a range of theories appropriate to professional practice, the link between theory and practice is established. Participants integrate theories into their practice framework and investigate the suitability of various theories in practice with individuals, families, groups, and communities.

Note that students cannot receive credit for both HUMS 2220 and HUMS 2221

HUMS 2230 3 credits

Introduction to Working with People who use Substances (3,0,0)

This course is designed to provide students with an introduction to working with people who use substances, and experience substance related harms. The course will primarily examine harmful use of substances but will also touch on the concept of addictions generally. The course will explore different models of substance use as well as key foundational concepts in the prevention, screening, assessment and treatment of substance use disorders. Students will be introduced to the descriptions of various drugs and their effects, and encouraged to explore their own attitudes and beliefs regarding substance use disorders and the treatment.

Note that students cannot receive credit for both HUMS 2230 and HUMS 2231

HUMS 2500 3 credits

Special Topics (3,0,0)

Students examine selected current issues in child and youth care and human service practice.

Prerequisite: Admission to the Human Service Diploma program or permission of the program coordinator

HUMS 2530 3 credits

Professional Communications and Helping Relationships (3,0,0)

Participants develop the values, language, speech, and skills required for the development of professional helping relationships. Utilizing critical reflection, participants examine relationship development with members of diverse populations, conduct relationship building activities, and learn the process of giving and receiving professional feedback and supervision.

Prerequisite: HUMS 1540 with a grade of C or better and HUMS 1580 with a grade of C or better. Admission to the Human Service Diploma Program or permission of the Program Coordinator

Note: Students cannot receive credit for more than one of HUMS 2531, ECED 1440 or HUMS 2530

HUMS 2600 4 credits

Human Service Field Education - Year 2 (0,2,14P)

Students participate in a 190-hour supervised practicum at an agency, which delivers community-based services to children and youth, families and others in the community. The focus is on students demonstrating professional and

ethical practice, appropriate and accountable professional decision-making; and reflexive practice. Students will explore the social justice factors affecting the service user population in the agency.

Prerequisite: HUMS 1601 with a grade of C or better OR HUMS 1600 with a grade of C or better OR EDCS 1580 with a grade of C or better

Note: Students cannot receive credit for both SOCW 3040 or HUMS 2600

HUMS 2900 3 credits

Directed Studies in Human Services (0,0,36)

This independent study course is designed to allow students the opportunity to investigate a specific issue within a field or topic pertinent to human service work. Consultation with, and permission of, a faculty member, the Human Services Program Coordinator and the Chair of the School of Social Work and Human Services is required.

Prerequisite: Second Year Standing

HUMS 3530 3 credits

Advanced Communication Skills to Facilitate Change (3,0,0)

Students build on their basic communication skills through the purposeful and conscious application of multiple frameworks and practice theories. The focus is to integrate problem solving and planned change theory with core communication skills to build effective helping relationships with individuals. Students develop the ability to utilize professional theories and frameworks to understand and facilitate change in their work.

Prerequisite: HUMS 2530 with a minimum C grade, HUMS 2220 with a minimum C grade. Admission to the Human Service Diploma Program or permission of the Program Coordinator

Note: Students cannot receive credit for both SOCW 3530 and HUMS 3530

HUMS 3570 3 credits

Introduction to the Law in Human Service Practice (3,0,0)

Students explore the law as an expression of social policy, and the processes by which laws are developed, enacted,and changed. Students are introduced to family law and the family courts, and to human rights legislation with special reference to how laws affect children and human services. The organization of legal services, and the legal accountability and liabilities of human service workers and others in the human service field, are presented. Note: Students may receive credit for only one of the following: SOCW 3570, CYCA 3570, HUMS 3570

Prerequisite: Admission to the Human Service Diploma program or permission of the Program Coordinator

IBUS 3510 3 credits

International Business (3,0,0)

Students examine globalization and the steps managers take to establish or expand operations in international markets. They explore the influence of forces such as culture, economics, politics, and geography on management decision making. Topics include globalization; national differences in political economy; political economy and economic development; differences in culture; ethics in international business; international trade theory; political economy of international trade; foreign direct investment; regional economic integration; international business strategy; entry strategy and strategic alliance; and global marketing and research and development

Prerequisite: ECON 1950 (minimum C-); MKTG 2430 (minimum C-); or equivalent

Note: Students may not receive credit for more than one of IBUS 3510, IBUS 3511, BBUS 3510 or BBUS 3511

IBUS 3530 3 credits

International Trade Finance (3,0,0)

Students develop an understanding of the finance principles required to conduct business in a global environment, including import and export, and multinational operations. Topics include globalization; trade risk and risk assessment; methods of payment; use of bonds, guarantees, and letters of credit; currency risk management; export credit insurance; trade finance; structure trade finance; terms of payment; international trade theory; the international monetary market; the global capital market; and foreign direct investment.

Prerequisite: FNCE 2120 or FNCE 3120, IBUS 3510

Exclusion: BBUS 4520 and IBUS 4520

IBUS 4510 3 credits

Cross-cultural Management (3,0,0)

Students explore the significance of culture in strategic decisions encompassing elements of risk management, ethics, and the management of diversity, in a range of international management contexts across Asia, Europe, Africa and the Americas. Topics include cultural dimensions of international management; comparing cultures; movement in the culture; organizational culture; culture and management communication; needs and incentives from an international perspective; dispute resolution and negotiation; and the cross-cultural dimensions of global staffing.

Prerequisite: IBUS 3510 (minimum C-) or equivalent

IBUS 4540 3 credits

Global Entrepreneurship (3,0,0)

Students explore entrepreneurship in a global setting. The course provides an introduction to the opportunities and challenges of entrepreneurship from an international perspective. The course focuses on the need for every

entrepreneur and innovator to understand the global market in today's hypercompetitive world. Topics will include globalization and the international environment; definition and importance of international entrepreneurship; culture

and international entrepreneurship; developing a global business plan; selecting international business opportunities; international legal concerns; alternative entry strategies; global monetary system; global marketing and research and

development; global human resource management; and implementing and managing a global entrepreneurial strategy.

Prerequisite: IBUS 3510 (minimum C- grade) or equivalent

Note: Students can not receive credit for both BBUS 4540 and IBUS 4540

IBUS 4560 3 credits

Doing Business in Emerging Markets (3,0,0)

Students examine the position of emerging markets in the new global economy and the business opportunities available in these countries. It highlights challenges and opportunities associated with organizational management and business strategy in emerging economies. Topics include understanding emerging economies; markets and institutions; operating in emerging markets; emerging markets' innovations; managing risk in emerging markets; targeting emerging market clients; and business ethics in emerging markets.

Prerequisite: IBUS 3510 (minimum C-) or equivalent

IBUS 4570 3 credits

Global Management (3,0,0)

Students conduct an integrative and comprehensive overview of the fundamental issues and challenges that confront the international firm.

Topics include globalization and international linkages; public, legal and technological environments; meaning and dimensions of culture; organizational culture and diversity; cross-culture communication and negotiation; strategy formulation and implementation; entry strategies and organizational structures; managing political risk, government relations, and alliances; management decision and control.

Prerequisite: IBUS 3510 (minimum C- grade) or equivalent

Note: Students cannot receive credit for both BBUS 4510, IBUS 3520 or IBUS 4570

IBUS 4590 3 credits

International Business Field Study (3,0,0)

Students gain a first-hand understanding of international businesses through a focused overseas study tour during which the business, management and cultural practices of a selected country are experienced. The field study includes tours to local chambers of commerce, industrial zones and factories and enables students to meet executives in key industries. Topics include business etiquette and business customs; interpersonal and communication skills; economic, political and business environment; international trade relations; decision-making styles; and business opportunities, challenges and strategies between Canada and the foreign country.

Prerequisite: IBUS 3510 (minimum C-) or equivalent, or permission of the instructor

IDIS 3000 3 credits

Introduction to Interdisciplinary Study (3,0,0)

Students interested in the Interdisciplinary Studies program are introduced to the rationalization and application of interdisciplinary work. The course asks why interdisciplinarity is valid and explores its practice in various contexts in academia and the workplace. Students explore real-world problems from across the disciplines and are exposed to a wide variety of interdisciplinary approaches and methods.

Prerequisite: A minimum of 30 credits of university study

IDIS 4980 3 credits

Interdisciplinary Studies: the Research Project (0,3,0)

The Research Project is required for the completion of the Bachelor of Interdisciplinary Studies degree. Students propose a group research project which requires the use of at least two disciplinary approaches. The research proposal and project is completed under the supervision of a selected faculty member. The assignments include a proposal, a research plan, and conclusions.

Prerequisite: 4th-year standing in the Bachelor of Interdisciplinary Studies degree program

IDIS 4990 3 credits

Interdisciplinary Studies: The Graduating Essay (0,3,0)

The graduating essay may be written with the approval of the Bachelor of Interdisciplinary Studies Coordinator. The paper is completed under the direction of a selected faculty member, is read by three other faculty members, and is defended orally at an exam set up by the supervisor.

Prerequisite: 4th year standing in the Bachelor of Interdisciplinary Studies degree program

IDIS 5030 3 credits

Directed Studies in Interdisciplinary Studies (0,3,0)

Students undertake an investigation on a specific topic as agreed upon by the faculty member and the student. Permission of the instructor(s) is required.

Prerequisite: Graduate student standing and permission of the instructor(s). In special circumstances, undergraduate students with 4th-year standing may be allowed to enrol.

IEIM 1000

Industrial Electrician/Industrial Instrument Mechanic (750 hours)

Industrial Instrument Mechanics install, repair, maintain and adjust instruments used to measure and control industrial processes such as pulp and paper manufacturing and petrochemical production. Students are introduced to theory and gain hands-on lab experience in the following topics: safe work practices; using effective communication skills; solving problems using applied mathematics; analytical troubleshooting techniques; using computers; and leading teams to manage electrical installation and maintenance projects.

Prerequisite: Grade 12 graduation or equivalent, Accuplacer English 0600 and Math 0600

IIME 1000

Instrumentation and Control Technician Apprenticeship Level 1 (300 hours)

This course will cover how to install, repair, replace, calibrate, program and service all process monitoring and/or control instruments including indicators, recording devices, control loops, computers as well as signal transmission, telemetering and digital devices used in industrial operations such as pulp and paper manufacturing and petrochemical production.

Prerequisite: BC ITA sponsorship. Recommended - Grade 12 diploma, including English 12, Math 11 and Physics 11

IIME 1010

Theory for Industrial Instrumentation Mechanic (375 hours)

This course will cover the theory related to instruments used with control and communication systems to monitor and control the flow of gases and liquids, measuring and adjusting temperature, measuring and adjusting pressure and measuring and monitoring levels of materials to control an industrial process. The reason for Safety and process monitoring systems will be introduced as well as the basic principles of pneumatic and hydraulic systems. The proper use of manufacturer's specifcations for installation, calibration and troubleshooting will be discussed.

Prerequisite: Grade 12 Graduation or equivalent, Accuplacer English 0600, Math 0600

IIME 1110

Shop Practical for Industrial Instrumentation Mechanic (255 hours)

This course will cover the hands on work related to the installation of instruments used with control and communication systems to monitor and control the flow of gases and liquids, measuring and adjusting temperature, measuring and adjusting pressure and measuring and monitoring levels of materials to control an industrial process. Hands on operation of Safety and process monitoring systems will be introduced as well as the operation of basic pneumatic and hydraulic systems. The proper use of manufacturer's specifications for installation, calibration and troubleshooting will be used.

Prerequisite: Grade 12 Graduation or equivalent, Accuplacer English 0600, Math 0600

IIME 1900

Instrumentation Trade Sampler (120 Hours)

In this course the students will be introduced to the Instrumentation trade, the type of work this trade entails and the opportunities for jobs in this trade. Referring to the Program Outline from the Industry Training Authority of BC,

they will learn about safe work practices for this trade. They will be introduced to a process loop which contains sensors, controllers and final control elements and various types of control methods which will be enhanced using hands on trainers in a lab setting.

Prerequisite: Completion of Grade 10

IIME 2000

Instrumentation and Control Technician Apprenticeship Level 2 (300 hours)

This course will cover how to install, repair, replace, calibrate, program and service all process monitoring and/or control instruments including indicators, recording devices, control loops, computers as well as signal transmission, telemetering and digital devices used in industrial operations such as pulp and paper manufacturing and petrochemical production.

Prerequisite: BC ITA sponsorship. Recommended - Grade 12 diploma, including English 12, Math 11 and Physics 11

IIME 3000

Instrumentation and Control Technician Apprenticeship Level 3 (300 hours)

This course is intended for third year apprentices and will cover how to install, repair, replace, calibrate, program and service all process monitoring and/or control instruments including indicators, recording devices, control loops, computers as well as signal transmission, telemetering and digital devices used in industrial operations such as pulp and paper manufacturing and petrochemical production.

Prerequisite: BC ITA sponsorship. Recommended - Grade 12 diploma, including English 12, Math 11 and Physics 11.

IIME 4000

Instrumentation and Control Technician Apprenticeship Level 4 (300 hours)

This course is intended for fourth year apprentices and will cover how to install, repair, replace, calibrate, program and service all process monitoring and/or control instruments including: indicators, recording devices, control loops, computers as well as signal transmission, telemetering and digital devices used in industrial operations such as pulp and paper manufacturing and petrochemical production.

Prerequisite: BC ITA sponsorship. Recommended: Grade 12 diploma, including English 12, Math 11 and Physics 11.

IMEC 1010

Industrial Instrument Mechanic - Theory (45 hours)

Students are introduced to the theory related to instruments used with control and communication systems to: monitor and control the flow of gases and liquids, measure and adjust temperature, measure and adjust pressure and measure and monitor the levels of materials to control an industrial process. The reason for safety and process monitoring systems is introduced as well as the basic principles of pneumatic and hydraulic systems. The proper use of manufacturer's specifications for installation, calibration and troubleshooting is discussed.

Prerequisite: Grade 12 Graduation or equivalent, Accuplacer ENGL 0600, MATH 0600

IMEC 1110

Industrial Instrument Mechanic - Practical Shop (80 hours)

Students complete the "hands on" work related to the installation of instruments used with control and communication systems to: monitor and control the flow of gases and liquids, measure and adjust temperature and pressure and measure and monitor levels of materials to control an industrial process. "Hands on" operation of safety and process monitoring systems is introduced as well as the operation of basic pneumatic and hydraulic systems. The proper use of manufacturer's specifications for installation, calibration and troubleshooting is followed.

Prerequisite: Grade 12 Graduation or equivalent, Accuplacer ENGL 0600, MATH 0600

INET 1000 6 credits

Instrumentation Engineering Technology 1 (195 hours)

This is the first of four courses intended that cover the theory and practical skills required to install, repair, and maintain instruments used to measure and control industrial processes.

Prerequisite: Admission to the Instrumentation Engineering Technology program

INET 1500 6 credits

Instrumentation Engineering Technology 2 (195 hours)

This is the second of four courses that cover the theory and practical skills required to install, repair, and maintain instruments used to measure and control industrial processes.

Prerequisite: Admission to the Instrumentation Engineering Technology program

INET 2000 6 credits

Instrumentation Engineering Technology 3 (195 hours)

This is the third of four courses that cover the theory and practical skills required to install, repair, and maintain instruments used to measure and control industrial processes.

Prerequisite: Admission to the Instrumentation Engineering Technology program

INET 2500 6 credits

Instrumentation Engineering Technology 4 (195 hours)

This is the fourth of four courses that cover the theory and practical skills required to install, repair, and maintain instruments used to measure and control industrial processes.

Prerequisite: Admission to the Instrumentation Engineering Technology program

JAPA 1110 3 credits

Introductory Japanese 1 (3,0,1)(L)

This course allows beginners to develop cultural knowledge and communicative skills in speaking, listening, reading, and writing in modern standard Japanese. Upon successful completion of this course, students are expected to demonstrate a CEFR A1 level of proficiency. Note: Students who have completed Japanese in Grade 11 or equivalent within the last two years may not take this course for credit unless approved by Modern

JAPA 1210 3 credits

Introductory Japanese 2 (3,0,1)(L)

Students build on the skills acquired in JAPA 1110: Introductory Japanese 1. Upon successful completion of this course, students are expected to demonstrate a CEFR A1+ level of proficiency.

Prerequisite: JAPA 1110 or equivalent

Note: Students who have completed Japanese in Grade 11 or equivalent within the last two years may not take this course for credit unless approved by Modern Languages.

JAPA 1510 3 credits

Japanese for Tourism (3,0,1)(L)

Tourism students prepare to speak Japanese in order to serve Japanese visitors to Canada in a hotel, restaurant, or retail shop setting. Upon successful completion, students are expected to demonstrate a CEFR A1 level of proficiency.

Prerequisite: Enrollment in the Tourism Diploma Program

Note: Students who have completed Japanese in Grade 11 or equivalent within the last two years may not take this course for credit unless approved by Modern Languages

Required Lab: JAPA 1510L

JAPA 2110 3 credits

Intermediate Japanese 1 (3,0,1)(L)

Students further develop their communicative skills in speaking, listening, reading and writing, and explore language from a variety of different areas, registers and periods. Upon successful completion, students are expected to demonstrate a low CEFR A2 level of proficiency.

Prerequisite: JAPA 1210 or equivalent

JAPA 2150 3 credits

Oral Japanese 1 (3,0,1)(L)

This course, conducted in Japanese, is designed to enhance oral communicative skills. Students review Japanese grammar and expand their vocabulary. A variety of activities enable students to progress to a superior level of fluency. Upon successful completion of this course, students are expected to demonstrate a CEFR B1+ - B2 level of proficiency.

Prerequisite: JAPA 2210 or equivalent. Native speakers of Japanese may not take this course for credit.

JAPA 2210 3 credits

Intermediate Japanese 2 (3,0,1)(L)

Students solidify their skills and extend their knowledge while they are introduced to increasingly advanced language structures. Upon successful completion, students are expected to demonstrate an intermediate CEFR A2 level of proficiency.

Prerequisite: JAPA 2110 or equivalent

JAPA 2250 3 credits

Oral Japanese 2 (3,0,1)(L)

This course is a continuation of JAPA 2150: Oral Japanese 1. Upon successful completion of this course, students are expected to demonstrate a CEFR B2 level of proficiency.

Prerequisite: JAPA 2150 or permission of Modern Languages.

Note: Native speakers of Japanese may not take this course for credit.

JAPA 2500 3 credits

Japanese for Business 1 (3,0,1)(L)

This course is intended for students with a basic level of Japanese language, and who wish to further their language skills for the Japanese business world. This course is designed to provide a basic understanding of terminology used in functional business areas, and an introductory knowledge of Japanese business customs, manners, and structure.

Prerequisite: JAPA 1210 or equivalent

JAPA 2510 3 credits

Japanese for Business 2 (3,0,1)(L)

This course is intended for students with a basic level of Japanese language, and who wish to further their knowledge of language skills for the Japanese business world. Spoken language skills appropriate for business meetings, the office, politeness strategy, and various business contexts are introduced. This course is a continuation of JAPA 2500: Japanese for Business 1.

Prerequisite: JAPA 2500 or equivalent

JAPA 2600 3 credits

Aspects of Japanese Culture 1 (3,0,1)(L)

In this survey course, students are introduced to aspects of Japanese culture and society. The course explores Japan from the Meiji Restoration (1868) to the Second World War. Students focus on the development of basic Japanese social, cultural, and political ideas. The course is conducted in English; no knowledge of Japanese is required.

JAPA 2610 3 credits

Aspects of Japanese Culture 2 (3,0,1)(L)

In this survey course, students are introduced to aspects of Japanese culture and society. The course explores modern Japan in the post-war era. Students focus on the development of basic Japanese social, cultural, and political ideas that have shaped modern Japanese society.The course is conducted in English; no knowledge of Japanese is required.

JOIN 1010

Entry Level Joinery (Benchwork) Theory (180 hours)

Students are introduced to theory for the following topics: Using safe work practices, using organizational skills, selecting materials, using hand tools, using portable power tools, using woodworking machines, assembling products and applying finishing materials.

JOIN 1110

Entry Level Joinery (Benchwork) Practical (420 hours)

Students gain experience from hands-on training in the carpentry shop in the proper and safe use of joinery hand tools, portable power tools, woodworking machines and applying finishing products to wood surfaces.

JOUR 2010 3 credits

Studies in Journalism (3,0,0)

This is a variable content course offering an introduction to topics in contemporary journalism studies. Students explore social and political issues in Canadian journalism, journalism and film, journalism and media studies, and journalism and the new media.

Prerequisite: Admission to the Journalism program, or the Bachelor of Arts, Major in Communication, or permission of the Chair

JOUR 2020 3 credits

Media Theory and History (3,0,0)

This is a critical introduction to media theory and history, with an emphasis on the development of journalism as part of the operation of Canadian media organizations. Students are familiarized with basic media theory, and the structure, history, and general operations of media institutions in Canada.

Prerequisite: Admission to the Journalism program, or the Bachelor of Arts, Major in Communication, or permission of the Chair

JOUR 2060 3 credits

Introduction to Multimedia (3,0,0)(L)

Students connect journalistic storytelling with the multi-media and social media tools used by professionals to reach a wide range of audiences. Coursework includes social media; storytelling with audio and video; and the use and critical evaluation of blogs as sources and sites for news.

Note: Students cannot receive credit for both JOUR 2060 and JOUR 2061

JOUR 2200 3 credits

Introduction to Reporting Skills and Techniques (3,0,0)(L)

Students are introduced to the basics of gathering information in journalism, including planning, networking, researching, evaluating, interviewing, summarizing, critical thinking and deadline writing. Students explore the basic issues of journalism, including media law and ethics, and the beats of journalism, such as justice reporting and municipal reporting. The practical and applied principles, values and behaviour of effective journalism are discussed.

Prerequisite: Admission to the Journalism program, the Bachelor of Arts, Major in Communication, or permission of the Chair

JOUR 2210 3 credits
Introduction to News Photography and Videography (3,0,0)
Students are introduced to the practical skills of photojournalism through planning, composing, shooting and editing digital still photos and digital video in a journalistic, newsworthy style. Students are instructed in the effective visual composition of images, in addition to interviewing technique with a video camera, the creation of the 'decisive moment' in still photos and of narrative in a video form, and the processing of digital images with Photoshop and Final Cut Pro. Students also explore theoretical issues of ethics, privacy and legal considerations in press photography and videography.

Corequisite: JOUR 2200

JOUR 2800 1 credits
Journalism Career Preparation 1 (1,0,0)
Students explore the range of career possibilities in journalism, public relations and organizational communication. Students develop job-search skills, create and maintain a professional portfolio, and prepare for future work experience in the field of journalism and communication.

Prerequisite: Admission to the Journalism program, the BA, Major in Communication, or permission of the Department Chair

JOUR 3030 3 credits
News Writing (3,0,0)
This course takes the student from a brief review of grammar to the introduction of techniques for journalistic writing, revising, and editing, including copy editing and Canadian Press style. Students start with the basics and progress to increasingly advanced techniques.

Prerequisite: JOUR 2200, JOUR 2210, JOUR 2060 or permission of the instructor.

JOUR 3110 3 credits
Layout and Design for Newspapers and Magazines (3,0,0)(L)
Students examine the production of newspapers and magazines in theory and practice, and apply the skills, principles, values and theories involved in print publications. The stages of production are explored, from the conception of a unique publication, to creating stories and photos, and to the designing and laying out of newspapers and magazines using InDesign and Photoshop. Students design and create their own distinctive layout.

Prerequisite: Completion of 45 credits or approval of department Chair or program advisor.

JOUR 3160 3 credits
Online Journalism (3,0,0)(L)
Students focus on developing the skills and knowledge required for online journalism. Students refine their writing, reporting and editing skills by developing news and features for publication on the Web. Basic HTML language skills are acquired as students become familiar with Web editing and design programs. Students produce a personal/professional web page and help to produce an online newspaper project. Emerging issues in online journalism are examined and discussed. Students work on advanced applications in editing, layout and web publishing software.

Prerequisite: Completion of 45 credits or approval of department Chair or program advisor.

JOUR 3230 3 credits
Beat Reporting (3,0,0)(L)
Working in the context of the program's newspapers, students explore and experiment with a number of different specialized types of writing, editing and reporting. A variety of beats are covered, such as politics, arts and culture, business and economics, justice and sports. The exact nature of course material varies with student interest and the availability of instruction.

Prerequisite: JOUR 2200 and JOUR 2210 and JOUR 2060 or permission of the instructor

JOUR 3400 3 credits
National and International Media (3,0,0)
Students are familiarized with major international and national media, and exposed to a wide variety of print publications, as they explore how the media helps to form and shape societal values. Students evaluate the major global media consortiums that cross-control newspapers, magazines, movie studios, cable TV channels, networks, music programs and Internet providers today. The relationships and dependencies that Canadian media have at the local, regional, national, and international levels are examined, with a consideration of how governments attempt to control the media.

Prerequisite: JOUR 2020 or permission of the instructor

JOUR 3510 3 credits
Photojournalism (3,0,0)(L)
Students use a digital camera as a reporting tool to reveal events and tell a story about newsworthy subjects that impact society in significant ways. A practical and working knowledge of digital camera equipment is developed as students work with journalistic photo composition and the advanced processing of digital photos through Photoshop. The legal requirements and ethical behaviour of responsible photojournalism is discussed. The photojournalistic image as a distinct form of representation is also explored according to leading theorists.

Prerequisite: JOUR 2200, JOUR 2210, JOUR 2060 or permission of the instructor

JOUR 3520 3 credits
Journalism Research Methods (3,0,0)
The basic principles and techniques of research from a journalistic perspective is explored as students are shown how to design and execute a focused research plan for their articles. A broad range of topics are discussed, including how to access public information and historical and legal records, and how to make sense of the gathered information using both traditional ('shoe-leather') methods and more advanced techniques, such as computer-assisted reporting.

Prerequisite: Admission to the Journalism program, or the Bachelor of Arts, Major in Communication, or permission of the Chair

JOUR 3540 3 credits
Feature Writing (3,0,0)
Building on the news writing skills acquired in JOUR 3030: News Writing, students are introduced to the feature article. Through the use of modelling and other techniques, students learn to recognize a good idea for a feature article and how to execute that idea in a publishable finished product.

Additional topics include the essentials of revising for publication and the basics of freelance feature writing.

Prerequisite: JOUR 2200, JOUR 2210, JOUR 2060 or permission of the instructor

JOUR 3700 3 credits
Media Law and Ethics (3,0,0)
This course provides an overview of the legal and ethical situations and circumstances that commonly confront journalists and other media professionals. Topics include libel, contempt of court, freedom of information, privacy legislation, copyright, confidentiality, protection of sources, and the use of 'off-the-record' remarks.

Prerequisite: JOUR 2200, JOUR 2210, JOUR 2060 or permission of the instructor

JOUR 3800 1 credits
Journalism Career Preparation 2 (0,1,0)
Students are instructed in how to find and apply for field experience in journalism-related placements. Students explore strategic planning and job-hunting techniques; prepare professional cover letters and resumes, and build and maintain a professional portfolio.

Prerequisite: Completion of JOUR 2800; Admission to the Journalism program, or the Bachelor of Arts, Major in Communication, or permission of the Chair

JOUR 3980 3 credits
Journalism Internship (0,3,0)
Through a six-to-twelve-week supervised field experience, this course helps students explore the range of career possibilities in journalism, public relations, and organizational communication. Students will propose internship placements in collaboration with department faculty. Department supervision and evaluation of field work is completed in collaboration with a field supervisor.

Prerequisite: Admission to the Journalism program, or the Bachelor of Arts, Major in Communication, and permission of the chair

JOUR 3990 3 credits
Directed Study: Internship (0,3,0)
Journalism Internship Studies provides guided online support for those Journalism students engaged in 12-week internships. Working with an instructor via the Journalism Internship Web site, students will complete assignments designed to help support the internship experience.

Prerequisite: Approval of the Department Chair or Program Advisor

JOUR 4020 3 credits
Advanced Media Theory (3,0,0)
Students explore cultural-critical theories of mass communication, drawing on the works of theorists, such as John Thompson, Robert McChesney, and Neil Postman. Students apply the critical perspectives discussed in this course to their own media use.

Prerequisite: JOUR 2020 or permission of the instructor

JOUR 4110 3 credits

Issues in Journalism: A Case Studies Approach (3,0,0)

Students explore journalism decision-making by studying real-life incidents involving journalists on the job. The case-study method allows students to consider the complexity of the challenges facing journalists on a daily basis, such as questions involving ethics, reporting and interviewing techniques, sourcing, bias and objectivity, news cycles, societal and personal assumptions, and changing technology - all while operating under deadline in a competitive and often stressful environment. Students also read and discuss critical assessments of journalism and analyze the performance of journalists today.

Prerequisite: Completion of 45 credits or approval of the department chair or the program advisor.

JOUR 4130 3 credits

Advanced Online and Multimedia Journalism (3,0,0)(L)

Students build on skills and concepts learned in previous online journalism and multimedia classes. Students become familiar with advanced multimedia and online news presentation techniques. Advanced skills and techniques are then used to produce collaborative multimedia news projects.

Prerequisite: Admission to the Journalism program, or the Bachelor of Arts, Major in Communication, or permission of the Chair and completion of JOUR 3160 or permission of the instructor.

JOUR 4150 3 credits

Popular Science, Nature, and Technology Writing (3,0,0)

Students learn the history and application of skepticism and critical thinking to journalism as it filters, evaluates, translates and packages information about science, technology and the environment in a form acceptable to a general mainstream audience. Styles and strategies of critical non-fiction writing are explored, and the essential communication issues of narrative, voice, and ethics are examined. Students develop their own distinct and original writing for science, nature, or technology, designed for a typical mainstream publication in print, video or online.

Prerequisite: JOUR 2200, JOUR 2210, JOUR 2060 or permission of the instructor

JOUR 4210 3 credits

Freelance Writing (3,0,0)

This course is an intensive workshop in freelance writing, focused on the researching, writing, and selling of freelance articles. The course acts as a form of self-directed study with a collaborative edge. Students are expected to keep a writing log in which they zero in on special interests and special problems. Work is submitted (and revised and re-submitted when necessary) for publication. This course is designed to refine and strengthen the individual's sense of writing self (to facilitate the charting of a freelance career), and to provide a solid introduction to the business of professional freelance writing.

Prerequisite: JOUR 2200, JOUR 2210, JOUR 2060 or permission of the instructor

JOUR 4270 3 credits

Investigative Journalism (3,0,0)

Students are instructed in the high-level research skills used by investigative journalists to uncover information that has often been deliberately hidden from public scrutiny. Students learn to recognize opportunities for, and execute, investigative work.

Prerequisite: JOUR 2200, JOUR 2210, JOUR 2060 or permission of the instructor

JOUR 4310 3 credits

Literary Journalism: Studies in Narrative Non-Fiction (3,0,0)

This course provides a topical introduction to literary journalism and additional forms of creative nonfiction through a survey of the best works in the genre. Through close reading of selected works and targeted writing exercises, the course enhances students' appreciation for the craft of journalism and for the range of literature, beyond daily reportage, that the craft accommodates.

Prerequisite: Completion of 45 credits or approval of the department chair or the program advisor.

JOUR 4540 3 credits

Magazine Writing and Production (2,2,0)

Working as a team, students will produce a community magazine.

Prerequisite: JOUR 2200 or permission of the instructor

JOUR 4580 3 credits

Alternative Media (2,1,0)

This course examines the history and development of alternative media from the underground newspapers of the 1960s through the alternative press that grew up in its wake (into the now-familiar entertainment rags of most sizeable North American cities) to a final survey of the dizzying profusion of so-called alternatives (zines, indymedia sites, and the like) available - indeed, ever multiplying - in the current electronic environment and information era. The purpose of such examination is twofold: to instill in aspiring journalists a critical and historical awareness of media forms (and their relation to content) and to foster understanding of the important role of that journalists play in the push-and-pull of public discourse.

Prerequisite: JOUR 2200 or permission of the instructor

JOUR 4590 3 credits

Outlaw Journalists (3,0,0)

Journalism has a strong tradition of outlaw writers who break the conventions of society and of journalism. These writers do that through style and content and through the way they practise the craft of writing. Some of these journalists found an audience that allowed them to rebel from inside newspapers and the publishing industry, and others are outcasts who used the craft of writing to rage against their circumstances. The effect of these writers has been so strong that they have altered the path of journalism and made changes in both society and writing.

Prerequisite: Completion of 45 credits (any discipline) or permission of the instructor.

JOUR 4750 3 credits

Journalism Senior Project (0,3,0)(L)

Students complete an independent journalism project. Acceptable projects include original investigative stories or a series of stories on a specific subject or issue. Students may do print, broadcast or web-based projects and are encouraged to have their work published in a professional publication, news program or website. Students meet in a weekly seminar to discuss and critique their work.

Prerequisite: Approval of the Department Chair or Program Advisor

JOUR 4800 1 credits

Journalism Career Preparation 3 (1,0,0)

Students prepare for the transition to a career in journalism, public relations or communication. As the last in a series of career preparation courses, this course provides a final opportunity for students to understand the career possibilities in the field; develop job-search skills and abilities; create and maintain professional portfolios; prepare for field experience during their education; and transition successfully from school to work after graduation.

Prerequisite: Completion of JOUR 2800 and JOUR 3800

JOUR 4950 3 credits

Directed Study (3,0,0)

Students work independently, under the supervision of a faculty member on a selected journalism topic. There are generally 1-3 students enrolled in the course. The instructor provides students with a syllabus or program of study and a set of assignments on the material. Students meet regularly with the instructor throughout the semester to discuss the material and gauge progress. The department Chair and the Dean must approve course topics.

Prerequisite: Approval of the Department Chair or Program Advisor

Note: With the permission of the program Chair, students may be permitted to undertake independent study in an area of special interest in the field of journalism

JUST 1140 3 credits

Human Behaviour (4,0,0)

Students analyze elements of human behaviour from the criminal justice perspective. Four fundamental themes are examined. The first theme explores the importance of self-awareness in developing effective communication in a team-based environment. Building upon the individual's awareness of personal behavioural tendencies and preferences, the second theme focuses on the development and enhancement of critical communication and conflict resolution skills. To provide students with an overview of mental health issues that affect criminal justice personnel and the public they assist, the third theme examines elements of psychological distress and dysfunction as well as support strategies for people in crisis. The final component of the course conveys a variety of aspects relating to a justice-related career including mental health, harassment, and multicultural issues.

Prerequisite: Admission to the Police and Justice Studies diploma program

JUST 1250 3 credits

Tactical Communication Skills for Criminal Justice (4,0,0)

This course contains two core themes pertaining to effective communication skills for public safety personnel. The first theme examines the foundation for communication skills required to effectively interview witnesses, victims and accused, including: probing, questioning techniques, listening, paraphrasing, summarizing, and documentation. The second theme builds on previous interviewing skills by incorporating conflict resolution and crisis

intervention techniques. A variety of strategies to identify deceptive people, and response techniques for law enforcement personnel are practiced and discussed. The National Use of Force Model is introduced, and the use of verbal intervention skills using the Use of Force Model is also discussed.

Prerequisite: Admission to the Police and Justice Studies diploma program

JUST 1310 3 credits

Introduction to Criminal Justice Services in Canada (4,0,0)

This course offers a complete overview of the Canadian criminal justice system. Students begin by examining the legislative, structural, and operational components of the criminal justice system, and reviewing the roles and responsibilities of the professionals who work within this system. Next, students follow the process and discuss the rights of an accused person as they travel through the system, from the commission of an offence to conviction and sentencing. Students also examine the rights of the victims of crime and their impact on the sentencing of adult and young offenders. Finally, alternatives to the criminal justice court process and their affects on the system as a whole are considered.

Prerequisite: Admission to the Police and Justice Studies diploma progra

JUST 2350 3 credits

Introduction to Canadian Law and Legal Institutions (4,0,0)

This course provides an overview of the basic legal institutions in Canada, and the fundamental principles of common law. Students discuss how laws are developed and evolve, the Canadian court system, and the exercise of judicial power. The course also includes a general introduction to the substantive areas of torts, family law, administrative law, and criminal law.

Prerequisite: Admission to the Police and Justice Studies diploma program

JUST 2450 3 credits

Police Skills (2,0,2)(L)

This course offers students an opportunity to practice the use of force techniques in the gymnasium. Students engage in hand-to-hand self defence training, including handcuffing techniques, pressure points and control tactics, defensive baton techniques, and subject control techniques. This course is physically intensive and provides hands-on practical experience for students.

Prerequisite: Admission to the Police and Justice Studies diploma program

JUST 2510 3 credits

Introduction to Policing (4,0,0)

The objective of this course is to provide the foundation for students on policing in Canada, from the principles of Sir Robert Peel to policing in the present. Students explore navigating the Criminal Code, identify offences, prepare reports on criminals, learn about Community Policing principles, and discover various departments within police organizations. Students also participate in crime scene investigations, including the taking of fingerprints, the collection of evidence, and recording information in their police notebooks.

Prerequisite: Admission to the Police and Justice Studies diploma program

JUST 2810 3 credits

Field Work Practicum (0,2,2)

Students are introduced to various aspects of the field of justice by participating in hands-on activities. Students are expected to develop and present a community policing activity to the public during the semester, including creating all instructional media, meeting with schools or service groups, and setting up their presentations. Other topics include Possession and Acquisition Licence (PAL) firearms training; RCMP Physical Abilities Requirement Evaluation (P.A.R.E.) testing; driving course(s); directing traffic; and accident investigations and scenario-based training using actors. Students also tour law enforcement facilities and participate in recruiting sessions with law enforcement groups.

Prerequisite: Admission to the Police and Justice Studies diploma program

LAWF 3010 5 credits

Constitutional Law (3,0,0)(3,0,0)

Students are introduced to the basic elements of Canadian constitutional law. Topics include the nature of constitutions and constitutional processes; principles of constitutional interpretation; constitutional amendment; and Federal/Provincial distribution of legislative powers including the federal general power, natural resources and public property, provincial property and civil rights, trade and commerce, provincial taxation, transportation, communications, and criminal law. Students also examine the Canadian Charter of Rights and Freedoms including principles of limitations, remedies, interpretation, application, fundamental freedoms, democratic and language rights, mobility rights, legal rights, equality rights, and Aboriginal rights.

LAWF 3020 3 credits

Legal Perspectives (3,0,0)

This course provides an introduction to legal and judicial reasoning. Students examine various legal theories including natural law, positivist, realist, liberal, feminist and other legal perspectives.

LAWF 3030 5 credits

Contracts (3,0,0)(3,0,0)

Students undertake a legal and policy analysis of the basic principles and fundamental concepts of the law of contracts as they relate to commercial and consumer transactions. Students explore the following: the formation of contracts including offer, acceptance and consideration; estoppel; privity; terms of contract, including exemption clauses; standard form contracts; bailment; mistake, misrepresentation and unconscionability; termination, including the doctrine of frustration; breach and remedies for breach; and dispute resolution processes. Emphasis is placed not only on knowledge of rules and principles, their historical derivation, rationale, efficacy and social validity, but also upon the creative use of contracts to both avoid and resolve disputes.

LAWF 3040 3 credits

Legislation, Administration and Policy (3,0,0)

Students examine the fundamentals of the legislative process: policy development, legislative drafting, public bill process, and statutory interpretation. The interaction of law and policy in the development of legislation, statutory interpretation and the work of administrative tribunals are discussed, along with the fundamentals of the administrative process: subordinate legislation, administrative institutions, forms of dispute resolution, delegation, discretion, process and judicial review. Students make substantive law connections with other first year courses. The functions of the lawyer within these processes are examined, including issues of professional responsibility. Emphasis is placed on skill development in oral advocacy and drafting both legislation and private law documents.

LAWF 3050 5 credits

Property (3,0,0)(3,0,0)

This course is an examination of the fundamental concepts of property law and the types of property interest recognized by Anglo-Canadian law. Topics include the historical evolution of property concepts; the basic concepts of possession, ownership and title; estates and other interests in land such as joint and concurrent ownership, easements, covenants, licenses, mortgages, future interests and perpetuities; the landlord and tenant relationship; the land titles system of registration of title to land; the social constraints upon property use and disposition; and property rights of aboriginal peoples.

LAWF 3060 4 credits

Fundamental Legal Skills (2,0,0)(2,0,0)

Students are introduced to the following: legal method, systems and institutions; sources of law; legal analysis, including case analysis and problem-solving skills; court systems; precedent, stare decisis; legal writing and communication, including memoranda and facta; oral advocacy, including mooting; research databases and legal research skills.

LAWF 3070 5 credits

Torts (3,0,0)(3,0,0)

Students analyze and critique the law of torts, primarily the law of negligence, with personal injury as the main focus, although other torts are also introduced. Topics include the nature of tort law and its process; an anatomy of the law of negligence, including the nature and extent of liability, defenses, remedies, and the assessment of damages; intentional torts; economic torts; strict liability; bailment; the impact of private insurance on the tort system; alternative forms of compensation.

LAWF 3080 5 credits

Crime: Law and Procedure (3,0,0)(3,0,0)

This course provides an anatomy of criminal conduct and its legal treatment, utilizing a limited range of criminal offences. Students examine the designation of human conduct as criminal and consider the social, cultural and political forces involved. Other topics include: the development of the criminal process in English common law, its translation to Canada and embodiment in the Criminal Code; the substantive elements of a criminal offence, including both physical and mental elements; the common law and code defences; procedural, tactical, ethical and evidential problems associated with criminal prosecution at both the pre-trial and trial stages; the sentencing process; and the position at law of the victim.

LAWF 3090 1 credits

Dispute Resolution 1: Interviewing and Counselling (1,0,0)

This course is an introduction to dispute resolution. Topics include conflict analysis; an overview of dispute resolution processes; fact-finding through client interviewing; client-centred counselling; ethical issues.

LAWF 3100 3 credits
Entertainment Law (3,0,0)
This issue-based course covers the legal, business and regulatory aspects of producing entertainment content in the modern age. In the first phase, students learn the contractual, intellectual property, defamation and privacy issues common to all of the entertainment industries. In the second phase, the course addresses the unique business and legal aspects of developing, financing and distributing entertainment products in each of the sub-industries involved.

LAWF 3400 3 credits
Lawyering in the 21st Century (0,3,0)
Students prepare for the challenges and opportunities of practicing law successfully in a rapidly changing business, technological and regulatory environment. Weekly class meetings are structured as partners' meetings among partners in a (fictional) innovative law firm. Themes include: access to justice and the problem of affordable legal services; changes in and challenges to the â€œbig law" paradigm; how technological developments are changing the practice of law; legal business regulation and alternative business structures; innovation in legal education; and diversity and equity in the profession.

LAWF 3410 3 credits
Community Lawyering (3,0,0)
Students gain practical skills in community lawyering such as client interviewing, strategic litigation, legal research, and ethical issues. They have the opportunity to examine and to be exposed to access to justice issues in context and specific areas of practice such as residential tenancy law, public legal education and law reform in British Columbia. This course shall be a pre-requisite for participation in the Legal Information Service and clinical legal education programs at TRU Faculty of Law.

LAWF 3420 3 credits
Clinical Practice (0,0,10P)
Students work in a Community Legal Clinic administered by the TRU Faculty of Law. Students develop and practice lawyering skills including: client interviewing and counseling; file management; legal research; the preparation of legal documents, letters and memoranda; representing clients in administrative law hearings and provincial court trials and public education and law reform. Students work with real clients to develop these skills and are exposed to access to justice issues in context and specific areas of practice. Students handle legal matters for individual clients, depending on the complexity and duration of the case.

Prerequisite: LAWF 3410 and consent of the Faculty

LAWF 3422 6 credits
Clinical Practice 2 (0,0,24P)
In the Clinical Practice Course, students have the opportunity to work in the TRU Community Legal Clinic (â€œTRU CLC") under the supervision of TRU CLC's team of supervising lawyers. Students develop these skills in the process of assisting real clients with their legal issues. Students work on approximately 10 to 20 legal matters for individual clients, depending on the complexity and duration of each case.

Corequisite: LAWF 3410

LAWF 3424 9 credits
Clinical Practice 3 (0,0,36P)
In the Clinical Practice Course, students have the opportunity to work in the TRU Community Legal Clinic (â€œTRU CLC") under the supervision of TRU CLC's team of supervising lawyers. During the course students develop and practice lawyering skills including: 1) client interviewing and counseling; 2) file management; 3) legal research; 4) the drafting of letters, memoranda and other legal documents such as wills or pleadings; 5) providing summary advice; and 6) advocating on behalf of clients. Students develop these skills in the process of assisting real clients with their legal issues. Students also engage in public education and law reform projects. Students work on approximately 24 to 32 legal matters for individual clients, depending on the complexity and duration of each case.

Corequisite: LAWF 3410

LAWF 3426 12 credits
Clinical Practice 4 (0,0,48P)
In the Clinical Practice Course, students have the opportunity to work in the TRU Community Legal Clinic (â€œTRU CLC") under the supervision of TRU CLC's team of supervising lawyers. During the course students develop and practice lawyering skills including: 1) client interviewing and counseling; 2) file management; 3) legal research; 4) the drafting of letters, memoranda and other legal documents such as wills or pleadings; 5) providing summary advice; and 6) advocating on behalf of clients. Students develop these skills in the process of assisting real clients

with their legal issues. Students also engage in public education and law reform projects. Students work on approximately 32 to 40 legal matters for individual clients, depending on the complexity and duration of each case.

Corequisite: LAWF 3410

LAWF 3428 15 credits
Clinical Practice 5 (60 Hours)
In the Clinical Practice Course, students have the opportunity to work in the TRU Community Legal Clinic (â€œTRU CLC") under the supervision of TRU CLC's team of supervising lawyers. During the course students develop and practice lawyering skills including: 1) client interviewing and counseling; 2) file management; 3) legal research; 4) the drafting of letters, memoranda and other legal documents such as wills or pleadings; 5) providing summary advice; and 6) advocating on behalf of clients. Students develop these skills in the process of assisting real clients with their legal issues. Students also engage in public education and law reform projects. Students work on approximately 40 to 45 legal matters for individual clients, depending on the complexity and duration of each case.

LAWF 3430 3 credits
Creditors' Remedies (3,0,0)
Students learn the means by which both secured and unsecured creditors in British Columbia can collect the money owing to them. Students review and discuss the statutes involved, and cases that illustrate the broad range of fact situations in which the statutes operate and the legal principles and pitfalls involved. They examine in detail and present cases, areas, issues and principles of particular importance to an understanding of this area of the law.

LAWF 3440 3 credits
Intellectual Property Law (3,0,0)
Itellectual property, including the law of patents, copyrights, and trade-marks.

LAWF 3450 3 credits
International Trade Law (3,0,0)
Students analyze the public law framework for international trade, with an emphasis on the World Trade Organization and North American Free Trade Agreement. Topics include national treatment; most-favoured nation treatment; anti-dumping and countervail actions; and dispute resolution.

LAWF 3460 3 credits
Comparative and International Indigenous Rights (0,3,0)
Students comparatively examine the construction and development of the relationship expressed in law, history and politics between Indigenous Peoples and the nation-states of Canada, Australia, New Zealand and the United States of America (the â€œCANZUS" states). They examine the position of Europeans and Indigenous Peoples prior to First Contact and then at the point of that contact in the Americas and Australasia. Students explore the following topics in each CANZUS country: History and Demography, the Discovery Doctrine and Aboriginal Title, Land Holdings, the Separation of Powers Issues, Indigenous Jurisdiction, and Treaty or Agreement Making.

LAWF 3470 3 credits
International Intellectual Property Law and Policy (0,3,0)
Students are introduced to the dialectical role of intellectual property in international law, with respect to health, development, technology, food security, human rights, indigenous knowledge, aboriginal rights, access to education, and the environment. Students discuss the meaning and interpretation of international agreements, treaties and processes.

LAWF 3480 3 credits
Digital Media Law (0,3,0)
Students examine different types of digital constraints and freedoms, and their consequences to citizens, creators and democracy itself. They debate the various ways digital media content is restrained, shaped, and altered. Students identify the roles of law and regulation in this process. Core issues include: The legal status of user-generated content, remixing, fan-fiction, and machinima; violent and misogynistic content; privacy and surveillance in an on-line and digital device context; big data, digital manipulation and content addiction.

LAWF 3490 3 credits
Communications Law (0,3,0)
Students in this issues-based seminar course learn the legal and regulatory aspects of telecommunications, broadcasting and the Internet. It is intended as the post-millennial successor to telecommunications and media law courses that have been standard fare for decades. In addition, students learn the legal and regulatory aspects of statutorily determined quasi-monopoly business environments regulated by the CRTC, and subject to administrative law oversight. Students explore the digital age of emergent technologies that provide a significant degree of freedom and control to individual users.

LAWF 3500 3 credits
Insurance Law (3,0,0)
Students are introduced to various types of insurance (e.g. fire, life, sickness and accident, motor vehicle, and liability). Topics include the nature and formation of the insurance contract; the role of insurance agents; insurable interest; misrepresentation and non-disclosure; and the rights of third parties against the insurer.

LAWF 3510 3 credits
Jurisprudence (3,0,0)
This course is a critical inquiry into the nature and functions of law and justice, including natural law, legal positivism, sociological jurisprudence, legal realism, and contemporary theorists.

LAWF 3520 3 credits
Tax Policy (3,0,0)
Students explore principles of tax policy (efficiency, equity, and simplicity) and applications related to income, sales, and payroll taxes. Topics include the economic and distributive effects of taxes, auditing and legal compliance, and political economy.

LAWF 3530 3 credits
Privacy Law (3,0,0)
Students analyse the variety of legal issues that arise in the field of privacy. Students explore the meaning of privacy. They examine how laws serve both to protect and to invade privacy. Students consider the conflict between privacy and other legal interests. They contemplate how (and whether) privacy can be protected in an age where â€“ to the chagrin of many, but the delight of some â€“ â€œeverything ends up on the internet these days."

LAWF 3540 3 credits
Charter Civil Liberties (3,0,0)
Students critically engage with the Charter of Rights and Freedoms and its associated jurisprudence. They focus on the following topics: The social, political and theoretical context in which disputes over the Charter of Rights and

Freedoms are adjudicated; significant aspects of Charter adjudication, including judicial review, the interpretation of the Charter, and the remedial powers of courts; examination of the substantive jurisprudence on key rights protected

by the Charter of Rights and Freedoms; and consideration of the practical difficulties involved in litigating Charter claims.

LAWF 3550 3 credits
Comparative Law (1.5,1.5,0)
Students are introduced to comparative law as a method of legal enquiry, which is of significant import to the cosmopolitan lawyer who often requires knowledge of more than one legal system. Students consider the practical aims and theoretical underpinnings of the comparative legal method and examine the historical development of the process of comparing rules, principles, and institutions of different countries. Emphasis is placed on the contemporary use of the comparative method in both public and private law by legal actors such as lawyers, judges, and legislators. Students develop an international perspective by making substantive connections between the Canadian common law and a range of legal traditions, questioning whether national legal systems and institutions are converging or whether differing economic, political, and social contexts act to preserve legal diversity.

LAWF 3560 3 credits
Corporate Governance (3,0,0)
Students analyze, at an advanced level, contemporary debates in corporate governance particularly in light of recent North American and international developments. Particular attention is paid to how these developments are situated

both within corporate governance theory and within the history of corporate governance laws and norms in Canada and internationally.

Prerequisite: LAWF 3800

LAWF 3570 3 credits
Advanced Criminal Law (3,0,0)
Examination of selected substantive areas of criminal law. Topics may include double jeopardy, police entrapment, conspiracy, corporate crime, theft, impaired driving and breathalyzer offences, plea negotiations, ethical issues, mistake of law as a defence, and juveniles and the criminal process.

LAWF 3580 3 credits
Advanced Advocacy (3,0,0)
Students examine how legal decisions are made and influenced. They draw upon extensive research in fields as diverse as product marketing and modern neuroscience, and structure those discoveries into a framework of classical rhetoric as developed in Ancient Greece and Rome. Students expand their perspective of the student-advocate, and obtain advanced knowledge upon which to base the development of practical skills throughout a career in practice.

LAWF 3590 3 credits
Advanced Torts (3,0,0)
Students investigate and analyse the tort implications of the events described in seven public reports. Students focus on the following issues in tort law: public authority negligence liability; the problem of third-party intervening actors; systemic negligence; misfeasance in public office; and material contribution causation in the third-party context.

LAWF 3600 3 credits
Conflict of Laws (3,0,0)
This course is a discourse of the doctrines and rules governing legal disputes cutting across provincial or national boundaries. Topics include jurisdiction; distinctions between substantive and procedural rules; the recognition and enforcement of foreign judgements; domicile; proof of foreign law; and the choice of law rules relating to private law (torts, contracts, property, succession and family law).

LAWF 3610 3 credits
Real Estate Transactions (3,0,0)
This course is an examination of estate transactions. Topics include the purchase and sale of property; mortgaging and other ways to finance land transactions; commercial leasing arrangements; and the Land Titles Act as it relates to land development.

LAWF 3620 3 credits
Bankruptcy and Restructuring Law (3,0,0)
Topics in this course include receivership, consumer and commercial arrangements, and bankruptcy under the Bankruptcy Act and the Company Creditors Arrangements Act.

LAWF 3630 3 credits
Advanced Public Law (3,0,0)
Students examine selected issues in constitutional law at the advanced level. Topics may include constitutional amendment, comparative approaches to rights, comparative federalism, the role of international law in constitutional litigation, the role of social movements, and strategic litigation in securing constitutional rights.

LAWF 3640 3 credits
Secured Transactions (3,0,0)
In this course, students consider in detail the modern law of secured transactions and the financing of personal property, with a focus on British Columbia's Personal Property Security Act.

LAWF 3650 3 credits
Unjust Enrichment (3,0,0)
Students assess unjust enrichment as an independent source of legal obligation. Topics include elements of the right of action and defences; restitution as the remedy, with particular emphasis on personal versus proprietary restitution; and disgorgement of wrongful gain, distinguished from restitution using breach of fiduciary obligation as the primary example.

LAWF 3660 3 credits
Health Law (3,0,0)
Students evaluate the regulation, structure, and financing of the health care system. Topics include licensing and regulation of health care professionals (including medical malpractice claims as a form of regulation); regulation of biomedical research; approval processes for drugs, complementary therapies, and medical devices; resource allocation and access to health care; market considerations; privatization and deregulation of health care; and consent and confidentiality.

LAWF 3662 3 credits
Mental Health Law and Policy in Canada (3,0,0)
Through an examination of mental health law and policy in the civil, criminal and human rights contexts, this course will grapple with the unique barriers faced by people with mental health disabilities in the justice system. First, students will examine civil mental health laws and policies in Canada including involuntary psychiatric admission procedures; consent and capacity issues in relation to treatment; substitute-decision making; the use of restraints and forced treatment. The second portion of the course addresses the legal responses to mental health in the criminal justice system; findings of "not criminally responsible;" issues arising in policing and corrections; Mental Health Courts; the criminalization of persons with mental health disabilities; the provision of mental health services in the correctional system; administrative proceedings before forensic mental health review boards.

LAWF 3670 3 credits
Corporate Tax (3,0,0)
Students examine the provisions of the Income Tax Act applicable to corporations and their stakeholders. Topics include the classification of corporations for tax purposes; the taxation of corporate income; the

taxation of corporate distributions; and the taxation of various types of corporate reorganizations. Prerequisites: LAWF 3800-Business Associations, LAWF 3830-Basic Tax Law

Co-Requisites: LAWF 3830-Basic Tax Law, LAWF 3800-Business Associations

LAWF 3680 3 credits

Immigration and Refugee Law (3,0,0)

Students explore the basic principles, policies, and procedures governing immigration and refugee law. Topics include refugee law and status; selection and admission of immigrants; inadmissible and 16 non-removable classes; exceptions and the minister's permits; and appeals and judicial review in the Federal Court including Charter issues.

LAWF 3690 3 credits

Law and Economics (3,0,0)

Students examine the practical and theoretical implications arising from the application of economic reasoning to law. Topics include the economic method of legal analysis and the scope of its application, and the major critical responses in both traditional legal fields of economic influence (such as tort, contract and corporate law), and more novel areas (such as family and criminal law).

LAWF 3700 3 credits

Public Lands and Natural Resources Law (3,0,0)

This course will provide an opportunity for students to consider in detail the protection, exploitation, and management of Crown-owned lands and renewable and non-renewable natural resources (other than oil and gas, and including forestry, range land, minerals, wildlife, fisheries, wilderness, recreational, and heritage). Students discuss the nature of public ownership, public and private values, economic approaches, and inter-jurisdictional management.

LAWF 3702 3 credits

Transnational Lawyering: Social Justice, Communities & Resources (3,0,0)

This course focuses on the social justice concerns of individuals, civil society actors, and/or Indigenous communities with distributions of resources, recognition of status, protection of rights and/or the protection of the environment.

Justice issues related to natural resources, the environment and Indigenous communities are the dominant focus. Students will take a transnational approach to law by studying how laws rooted in domestic, international, private and public institutions regulate actions or events that transcend national frontiers. This is also an experiential learning course in that it offers students an opportunity to participate in social justice lawyering. This refers to legal research and writing that requires students to become familiar with the real-life problems of specific civil society actors in order to collect data, identify strategies and develop legal analysis of interest to these actors.

LAWF 3710 3 credits

Remedies (3,0,0)

Students assess judicial remedies at common law and equity for tort and breach of contract, including personal injury and property damage. Themes include compensating loss, disgorging gain, and punishing civil wrong; prohibiting and compelling defendant behaviour; loss-based, gain- based, and punitive damages; and injunctions and specific performance.

LAWF 3720 3 credits

Trusts (3,0,0)

Students explore the concept of the trust, its development in equity, and its relationship to other legal concepts. Topics include various types of trusts; constituting, administering and terminating the trust; trustee duties and powers; variation of trusts; breach of trust; and the doctrine of tracing.

LAWF 3730 3 credits

Human Rights Law (3,0,0)

This course is a survey of national and provincial human rights laws and practice as distinct from the Charter of Rights and Freedoms, and an introduction to the main international and transnational human rights instruments and standards.

LAWF 3740 3 credits

International Law (3,0,0)

Students examine the elements of public international law, including sources, the role of customary law, the law of treaties, recognition, state responsibility, and the roles and powers of international organizations.

LAWF 3750 3 credits

Canadian Legal History (3,0,0)

The focus of this course is to consider migration and European law in the colonial context and its impact in pre-Confederation Canada (settled and conquered colonies); the role of trading companies, particularly the Hudson's Bay Company; the impact of the United States both before and after Confederation; Confederation and the development of Canadian legal culture and law. Jurisdictions may include British Columbia, Alberta, Ontario, Quebec, and Nova Scotia.

LAWF 3760 3 credits

Directed Research (3,0,0)

Students complete a supervised research project involving the in-depth examination of a legal problem or area of concern not normally covered in a substantive or procedural course and which provides the basis for an article, research paper, brief, memorial, or draft legislation. Admission to this course depends on the availability of supervising faculty. THIS COURSE MAY BE REPEATED FOR CREDIT

Prerequisite: Consent of the Faculty

LAWF 3770 2 credits

*****Selected Topics 1 (2,0,0)**

Students focus on a variety of subject areas, either doctrinal or theoretical. THIS COURSE MAY BE REPEATED FOR CREDIT

LAWF 3780 3 credits

*****Selected Topics 2 (3,0,0)**

Students focus on a variety of subject areas, either doctrinal or theoretical. THIS COURSE MAY BE REPEATED FOR CREDIT

LAWF 3790 4 credits

*****Selected Topics 3 (4,0,0)**

Students focus on a variety of subject areas, either doctrinal or theoretical. THIS COURSE MAY BE REPEATED FOR CREDIT.

LAWF 3800 3 credits

Business Associations (3,0,0)

This course is a detailed survey of the common forms of business organization, including the law of agency, partnerships, limited partnerships, and societies and corporations, with a focus on the corporation and the rights and responsibilities of shareholders and directors.

LAWF 3810 3 credits

Criminal Process (3,0,0)

This course is a survey and critical examination of the core aspects of criminal process law. Students focus on legislation relating to jurisdiction and modes of trial including obligations of and options available to prosecution and accused. Other topics include arrest, search and seizure, investigative detention, and right to counsel and silence, all within the context of the Charter of Rights and Freedoms.

LAWF 3812 3 credits

Sentencing Law (3,0,0)

Sentencing is one of the most significant components of the criminal justice process. Despite its importance, sentencing is frequently an overlooked aspect of an accused person's walk through the criminal justice system. Sentencing Law aims to prepare students for this crucial area of practice. This course considers core principles of sentencing such as denunciation, deterrence, rehabilitation and retribution. The historical development of statute and common law impacting an offender's sentence are studied. Current trends in the common law are discussed, with particular attention to the sentencing of youth and indigenous offenders. Students will apply salient legal principles through oral and written coursework. Students should, on completion, be comfortable speaking to sentence on minor matters in provincial court and in providing meaningful assistance to experienced counsel on serious matters.

Recommended Requisite: Advocacy, Evidence and Ethical Lawyering

LAWF 3820 3 credits

Family Law (3,0,0)

This course is an analysis of the legal principles affecting the rights and responsibilities of the members of the family. Topics include constitutional issues, marriage, marriage contracts, common law marriage, child neglect and abuse, custody and access, guardianship, adoption, separation, divorce, nullity, spousal and child maintenance, and matrimonial property. Emphasis is placed on the process of family law and the appropriate role for lawyers and judges.

LAWF 3830 3 credits

Basic Tax Law (3,0,0)

Students study the basic language and concepts of taxation and learn to identify taxation issues. Topics include the unit of taxation; the meaning and taxation of income; taxation of benefits; the type and scope of deductions available for business income; and the taxation of capital gains including gains (and losses) on taxpayer assets.

LAWF 3840 3 credits

Environmental Law (3,0,0)

Students critically examine legal theories, concepts, principles, and processes relevant to environmental protection. Topics include ecological and ethical

dimensions; jurisdictional issues; common law rights and remedies; environmental assessment; public participation; contaminated sites; enforcement and compliance; economic approaches; endangered species and protected spaces; land use planning; and environmental dispute resolution.

LAWF 3850 3 credits

Employment Law (3,0,0)

Students examine the law governing non-unionized workplaces in Canada. Topics include constitutional jurisdiction; defining the employment relationship and employer/employee status; the employment contract; implied rights and obligations; termination; reasonable notice of dismissal; constructive dismissal; cause for summary dismissal; human rights; and employment standards legislation.

LAWF 3860 3 credits

Labour Law (3,0,0)

Students analyze the law governing unionized workplaces in Canada. Topics include freedom of association; the status of participants; union organization and certification; unfair labour practices; collective bargaining; the collective agreement and arbitration; industrial conflict; the duty of fair representation; and interaction between the labour law regime and the common-law of employment.

LAWF 3870 3 credits

Wills and Estates (3,0,0)

Students examine the preparation, execution, interpretation, and administration of wills; testamentary capacity; alteration, revocation and republication of wills; intestate succession; dependant's relief; and estate administration.

LAWF 3880 3 credits

Sale of Goods (3,0,0)

Students examine the sale and supply of goods, including the provincial Sale of Goods Act, consumer protection issues, and the Vienna International Sales Convention.

LAWF 3890 3 credits

Indigenous Peoples and Canadian Law (3,0,0)

Students explore Canadian law governing the relationship between Indigenous peoples and settler society, with consideration of Indigenous laws and some comparative and international law as well. Topics include constitutional, common law and international rights of Indigenous peoples (First Nation, Inuit and Metis); colonial legal history and the Indian Act; self-government and self-determination; the trust and treaty relationships between the Crown and Indigenous peoples, including the obligations flowing from the honour of the Crown; gendered impacts of colonial law and policy; the experience of Indigenous peoples with criminal justice; economic development on reserve lands and Indigenous wealth generation more generally; and additional or different topics chosen by the instructor.

LAWF 3900 3 credits

Administrative Law (3,0,0)

Students are introduced to the general structure of administrative decision-making in Canada: how public administrators obtain power and how that power is exercised both at the level of individual adjudication and at the level of the establishment of public policy. This course also provides an introduction to the checks which courts place on the exercise of administrative power. Students discuss the procedures that courts require of administrative agencies and public officials as well as the substantive grounds on which courts may review the decisions of administrative agencies and public officials.

LAWF 3910 3 credits

Civil Procedure (3,0,0)

This course is a detailed examination of issues which arise in the progress of a civil action from first meeting the client through to judgment in the Supreme Court of British Columbia. The British Columbia Rules of Court are set in the context of the values underlying them. What sort of civil litigation system do we want? What sort of system do we in fact have? Particular attention is paid to the linkages between the apparently discrete components of the process as set out in the Rules, linkages at the levels of both the underlying values and the actual practice. The use of procedures under the Rules to anticipate and resolve evidence problems that might arise at trial is emphasized. Interprovincial and international aspects of the civil litigation process are also considered.

LAWF 3920 3 credits

Evidence (3,0,0)

This course is an examination of the fundamental concepts of evidence law, including the traditional rules as compared to the emerging principled approach, and such core and primary topics as the adversary system; relevance and discretionary exclusion; privilege; burdens of proof; character evidence; judicial notice; competence and compellability; examination of witnesses; hearsay; and opinion evidence.

LAWF 3930 3 credits

Ethical Lawyering (3,0,0)

This course is an introduction to issues of legal ethics and professional responsibility. Students become competent at ethical reasoning in the context of legal practice. To achieve this goal, the course covers selected topics in the 'law of lawyering' (for example, the Law Society of British Columbia's Code of Professional Conduct), but also addresses the general question of what it means to be an ethical lawyer. Students are expected to develop their awareness of the various moral values underlying the legal system, and to practice how to weigh and apply those values, and the law of lawyering, to ethical problems. Selected topics relating to the regulation of lawyers' ethics are also addressed.

LAWF 3940 3 credits

Dispute Resolution 2: Negotiation and Mediation (3,0,0)

This course provides an overview of the spectrum of the consensual dispute resolution process, including negotiation, collaborative lawyering, mediation, and judicial dispute resolution (JDR). Interest-based bargaining and mediation are emphasized.

LAWF 3950 3 credits

Advanced Legal Research & Writing (3,0,0)

This course builds on legal research instruction in the first year of the program and affords further opportunities to learn and practice research skills. Students are provided with instruction in research methodology, citation, print and electronic research/databases, covering case law, statute law, texts, periodicals and web-based materials.

LAWF 3960 3 credits

Dispute Resolution 3: Adjudication (3,0,0)

This course is an overview of the binding, third-party decision-making processes of dispute resolution, and their commonalities and differences. Students focus on two of the following three adjudication processes: arbitrations, administrative hearings, and trials.

LAWF 3970 3 credits

Sports Law: High Performance/Amateur and Adventure Sport (3,0,0)

This course examines the legal dimensions of high performance/amateur sport and adventure sport. The course has aninternational perspective looking at Canadian, US and UK case law. In this course, students will discuss, describe and analyzethe governance of sport, waivers, intellectual property rights in sport, doping, and negligence of extreme and contact sports.

LAWF 3980 3 credits

Sports Law: Professional Leagues and International Sports Organisations (3,0,0)

Students examine and evaluate the effectiveness of the legal framework and policies governing professional sports leagues and international sports governing bodies. Students also compare approaches to governing sport in Canada, the U.S., and Europe. Topics include the monopoly structure of sport; the intersection of competition law and labour law; issues free agency and salary caps; franchise movement and stadium subsidies; and dispute resolution mechanisms.

LAWF 3990 3 credits

Canadian Journal of Comparative and Contemporary Law (3,0,0)

Canadian Journal of Comparative and Contemporary Law is a course in which upper level Law students manage all aspects of editing the "Canadian Journal of Comparative and Contemporary Law." Students will assist in editing articles for substance and style, and the accuracy and completeness of footnotes and quoted sources. Students will also complete other journal-related tasks assigned by faculty editors in chief on an ad hoc basis. Note: Registration for this course will be done by the Faculty of Law.

Prerequisite: Students must currently be enrolled in either full time second- or third- year of the JD program at the TRU Faculty of Law. Students will competitively be selected based on their legal research and writing skills, as evidenced primarily through their performance in the first-year of the JD program at TRU Law.Preference may be given to students in their third year of the JD program. A STUDENT MAY REPEAT THIS COURSE FOR CREDIT BY SERVING AS A MANAGING EDITOR upon the recommendation of the Faculty Editors in Chief of the CLCCL.

LAWF 4000 3 credits

Court of Appeal Moots (3,0,0)

The development of appellate advocacy and other lawyering skills in the context of preparation for and participation in the BC Court of Appeal Moot, in the areas of criminal law; civil law (contract, property or tort law); and constitutional law.

Prerequisite: Consent of the Faculty

LAWF 4010 3 credits

Kawaskimhon National Aboriginal Moot (3,0,0)

Students develop lawyering skills such as advocacy and consensus building, in the context of a non-competitive moot, and conducted in a circle arrangement. Students use a moot problem based on selected contemporary issues in Aboriginal-Government relations.

Prerequisite: Satisfactory completion of the First Year Law program

LAWF 4020 3 credits

Wilson Moot (3,0,0)

The Wilson Moot was founded in 1992 and was conceived to honour the outstanding contribution to Canadian law made by the late Honourable Bertha Wilson. Students participate in this national moot court competition devoted to Equality Law and the Charter of Rights and Freedoms. Students form a team and prepare an appeal to a fictitious appellate court of last resort.

LAWF 4030 9 credits

Provincial Court Clerkships (36 Hours)

Placements are found for students in the Provincial Court to perform research, prepare memoranda, and meet and discuss with a supervising judge.

Prerequisites: LAWF 3910 AND LAWF 3920 AND consent of the Dean or Associate Dean

Recommended Prerequisites: LAWF 3810 AND LAWF 3820

LAWF 4050 3 credits

Jessup Moot (3,0,0)

The development of appellate advocacy and other lawyering skills in the context of preparation for and participation in the Philip C. Jessup International Law Moot Court Competition. The Competition focuses on international public law, and related areas of law.

Corequisite: LAWF 3740

Prerequisite: Consent of the Faculty

LAWF 4130 3 credits

Western Canada McIntyre Cup Trial Competition (3,0,0)

Students further develop trial advocacy and other lawyering skills in the context of preparation for and participation in the Western Canada Trail Competition.

Prerequisite: Consent of the Faculty

LEFA 1010 4 credits

Frameworks for Exploring Diversity (3,2,2)

This is the first course in the Learning Facilitators' Certificate program. It introduces participants to a broad range of topics and issues in the education of students with diverse characteristics and learning needs, and establishes the foundational skills for distance learning in the community-based components of the program. Each participant completes an initial self-assessment to identify current strengths as well as capacities and areas of competence they will focus on throughout the Learning Facilitators' Certificate program. University mentors assist individual participants to set goals, develop plans and complete learning tasks that address the Program Capacities and Areas of Competence. Each participant creates a baseline portfolio summarizing personal and educational history, attributes as an educator and learner, learning goals, and learning plan for the following semester.

Prerequisite: Experience working with children or adults in an educational setting (e.g., public, independent or federally-funded school, Head Start, pre-school, daycare, infant development, adult education centre). Approved admission to the 30-credit Learning Facilitators' Certificate Program. Commitment to full participation in the 30-credit Learning Faciliators' Certificate.

LEFA 1020 5 credits

Supporting Individual Learners (3,2,10)

This course deals with how a support worker might be involved in assisting an individual student with previously identified learning needs. Participants complete readings, a web-based Content Module, and focused learning tasks that address specific goals related to the program expectations and the specific educational outcomes/objectives of this course. Participants are expected to make connections between their work on these assignments and their workplace responsibilities, and to apply what they learn by developing and implementing strategies for supporting a specific student or small group in their educational settings. At the end of semester, each participant prepares a portfolio submission containing evidence of learning, along with a self-evaluation referenced to the program expectations (see Capacities and Self-assessment on the program website, http://www.educ.sfu.ca/fp/sdl). The participant's mentor responds to the portfolio, has an evaluation conference with the participant, and reviews the individual's learning goals and action plan for the following semester.

Prerequisite: Successful completion of LEFA 1010

LEFA 1030 3 credits

Distance Learning Practicum - Understanding and Planning for Specific Learning Needs (3,0,4)

In this semster, participants are expected to extend their knowledge and skills by investigating the learning needs of a variety of students in their workplace contexts, building on what was learned in the previous semester. Studies of individual differences are guided by an approved learning plan developed in consultation with a program mentor. Practicum activities focus on creating and implementing appropriate plans to support diverse learning needs within the scope of the individual's workplace responsibilities. This course encourages consideration of cultural factors in supporting individual learners, particularly those of Aboriginal heritage. The circle of courage framework developed by Bendtro, Brokenleg and Va Bockern is introduced as a template for assessing student learning needs and planning appropriate learning activities.

Prerequisite: Successful completion of LEFA 1010 and LEFA 1020 or special permission of the instructional team.

LEFA 1040 2 credits

Developing a Community of Inquiry (0,2,0)

Participants engage in discussion groups, facilitated by program mentors, with a focus on exchanging perspectives and sharing insights arising from their individual focused inquiries. Participants are expected to demonstrate thoughtful participation and a spirit of inquiry, and to critically examine their beliefs and practices in dialogue with others.

Prerequisite: Successful comption of the first two courses in the Learning Facilitators' Certificate program or permission of the instructional team.

Corequisite: LEFA 1030

LEFA 2010 4 credits

Community and Cultural Dimensions of Learning (4,2,2)

This course focuses on more complex issues and topics in educating students with diverse learning needs, including community and cultural dimensions of education, issues of diversity and inclusion, and tools and strategies for communication, collaboration and problem-solving. During this summer institute, participants also review their portfolios for the past year, update their self-assessment related to the program expectations (see Capacities and Self-Assessment on the program website at http://www.educ.sfu.ca/fp/sdl), and present some aspect of their learning from the previous year to colleagues at the institute. By the end of the institute, each participant completes a learning plan outlining their work for the coming year.

Prerequisite: Successful completion of the first three semesters of the Learning Facilitators' Certificate program, or special permission of the instructional team.

LEFA 2030 5 credits

Distance Learning Practicum - The Assessment-Instruction Cycle (2,2,12)

This course emphasizes the relationships among assessment, interpretation, evaluation, intervention and instruction. A field study, conducted in the participant's workplace, provides the context for demonstration of learning and growth in capacity to support students with diverse needs, with particular emphasis on the use of inclusive and culturally appropriate educational practices. Participants are expected to refer to information from readings and professional resources identified in the field study plan they have developed in consultation with a mentor, and to explain why the approaches they have selected are considered educationally sound. At the end of the field study semester, each participant presents evidence of learning and growth in a working portfolio to be reviewed by the mentor.

Prerequisite: Successful completion of the first four semesters of the Learning Facilitators' Certificate program, or special permission of the instructional team.

Corequisite: An appropriate practicum setting (i.e., a workplace assignment that involves supporting children or adult learners in an educational setting such as: a public, independent or federally-funded school, Head Start, pre-school, daycare, or infant development centre, adult education centre, etc.).

LEFA 2040 3 credits

Developing Networks of Support for Student Learning (2,0,6)

This field study course builds on the previous semester's learning activities. Participants continue to incorporate strategies for effective instruction into their field of study activities, with emphasis on involving parents and community in the education process. Participants are expected to extend and deepen their competence as educational practitioners, to work collaboratively with other educators in supporting student learning, and to make connections among school, home and community that enhance the quality of learning for all.

Prerequisite: Successful completion of the first five semesters of the Learning Facilitators' Certificate program or special permission of the instructional team.

Corequisite: LEFA 2050. An appropriate practicum setting (i.e., a workplace assignment that involves supporting children or adult learners in an educational setting such as: a public, independent or federally-funded school; Head Start, pre-school, daycare, or infant development centre; adult education centre, etc.).

LEFA 2050 2 credits

Investigating Issues in Aboriginal Education (0,2,0)

Facilitated discussions are designed to broaden and deepen participants' perspectives on issues in Aboriginal education, and to make connections between situations encountered in local communities and broader systemic issues. Participants form study groups to investigate a chosen topic, summarize appropriate readings and research, and present an analysis of their issue to the cohort seminar group.

Prerequisite: Successful completion of the first five semesters of the Learning Facilitators' Certificate program or permission of the instructional team.

Corequisite: LEFA 2040

LEFA 2060 2 credits

Reflections on Supporting Diverse Learners (1,1,0)

During this final course in the Learning Facilitators' Certificate program, participants reflect on and synthesize what they have learned over the previous two years, in preparation for a final comprehensive portfolio conference and festival of learning. Each participant prepares a comprehensive portfolio that represents their learning journey, including evidence of growth and a self-evaluation related to the program expectations (see Capacities and Self-assessment on the program website at http://www.educ.sfu.ca/fp/sdl). Participants attend a two-day festival of learning, where they make individual or small-group presentations to colleagues and invited guests on what they learned from their field study work. Comprehensive portfolios are evaluated in individual conferences between participants and mentors.

Prerequisite: Successful completion of all previous courses in the Learning Facilitators' Certificate program.

LEGA 1010 1 credits

Introduction to the Canadian Legal System (30 hours)

Students develop a general understanding of the Canadian legal system as a foundation for further study in the Legal Administration Assistant Certificate. Topics include an overview of the Canadian legal system, including Quebec's civil code system; introduction to the constitution and the Charter of Rights; federal and provincial jurisdiction; overview of Canadian court structure; the importance of the Charter of Rights, lawyers, judges and ethical principles; and tort, contract and criminal law.

Prerequisite: ABTS 1100; ABTS 1300

LEGA 1020 1 credits

Legal Office Procedures (45 Hours)

Students are introduced to the legal profession, including the functions and duties of a legal administrative assistant in British Columbia. Topics include the legal profession; office duties and procedures; client record keeping; legal correspondence; and legal instruments and court documents.

Prerequisite: ABTS 1110; ABTS 1310

LEGA 1030 2 credits

Litigation Procedures 1 (60 hours)

Students are introduced to the functions and duties of a legal administrative assistant working in civil litigation in British Columbia. They learn to manage legal documents and procedures, from the initiation of a lawsuit through to the completion of pleadings and the possibility of obtaining a default judgment. This is a hands-on course in which students integrate keyboard, computer, transcription, and document formatting with a knowledge of civil law.

Perequisite: LEGA 1010; LEGA 1020

LEGA 1040 2 credits

Litigation Procedures 2 (60 hours)

Building on LEGA 1030: Litigation Procedures 1, students examine the documents and procedures from the discovery process to preparation and attendance at trial and post-trial procedures, including bills of costs and enforcement procedures, and also learn to prepare for Chambers hearings. This is a hands-on course in which students integrate keyboard, computer, transcription, and document formatting with a knowledge of civil law.

Prerequisite: LEGA 1030

LEGA 1050 2 credits

Family Litigation Procedures (60 hours)

Students are introduced to the role and responsibilities of a legal administrative assistant employed in the field of family law in British Columbia. They gain knowledge and practical experience in topics such as statutes and rules, divorce and family courts, marriage in B.C., pre-nuptial and separation agreements, undefended and defended divorce actions, chamber applications, annulment, and applications to Provincial Court. This is a hands-on course in which students integrate their keyboard, computer, and document formatting skills within the context of family law.

Prerequisite: LEGA 1030

LEGA 1060 2 credits

Corporate Procedures 1 (60 hours)

Students are introduced to the role and responsibilities of a legal administrative assistant working in the field of corporate law. They receive an overview of the various forms of business organizations, with a focus on the corporation, covering incorporation procedures, post-incorporation procedures, and annual maintenance requirements of a private (non-reporting) British Columbia company.

Prerequisite: LEGA 1010, LEGA 1020

LEGA 1070 1 credits

Corporate Procedures 2 (30 hours)

Building on LEGA 1060: Corporate Procedures 1, students focus on corporate structure and completion of filing forms as related to sole proprietorships, partnerships, limited partnerships, societies, cooperatives, non-reporting companies, and extra-provincial non-reporting companies. They are also introduced to securities and to BC OnLine which is an Internet access to government services and information about companies in British Columbia.

Prerequisite: LEGA 1060

LEGA 1080 2 credits

Conveyancing Procedures 1 (60 hours)

Students are introduced to the role and responsibilities of a legal administrative assistant employed in the field of conveyancing in British Columbia. They gain knowledge and practical experience in topics such as systems of land registration, land title searches, contracts of purchase and sale, methods to convey interests in land, statements of adjustments, and the execution and registration of electronic documents filed in the Land Title Office. The focus is on the purchaser's procedures for a simple conveyance not involving financing.

Prerequisite: LEGA 1010, LEGA 1020

LEGA 1090 2 credits

Conveyancing Procedures 2 (60 hours)

Building on LEGA 1080: Conveyancing Procedures 1, students are introduced to the role and responsibilities of a legal administrative assistant employed in the field of conveyancing in British Columbia. They gain knowledge and practical experience in topics such as methods to convey interests in land involving purchaser financing, strata property considerations, builders' liens, acting for the vendor, acting for mortgage lenders, additional adjustments for statements of adjustments, authorities to pay, the execution and registration of electronic documents filed in the Land Title Office, acting for both the purchaser and mortgagee, and documents for the transfer of manufactured homes.
Prerequisite: LEGA 1080

LEGA 1100 2 credits

Wills and Estates (60 hours)

Students are introduced to the role and responsibilities of a legal administrative assistant employed in the field of wills and estates in British Columbia. They gain knowledge and practical experience in preparation of wills and codicils, and the documents necessary to apply for grants of Letters Probate and Letters of Administration (with and without a will), Administration Bonds, transferring assets from the deceased, and winding up estates. They prepare documents acceptable to the Probate Registry for filing, followed by transmission and distribution of estates. This is a hands-on course in which students integrate keyboard, computer, document formatting, and transcription skills within the context of estate law.

Prerequisite: LEGA 1010, LEGA 1020

LEGA 1110 2 credits

Personal Injury (60 Hours)

Students are introduced to the specific area of civil litigation in British Columbia that deals with personal injury lawsuits. Topics include the definition of a personal injury lawsuit; opening a personal injury file; coming legal

proceedings; motor vehicle accidents and the Insurance Corporation of British Columbia; parts of a personal injury claim; discovery; experts; and resolution. This is primarily a hands-on course in which you will integrate keyboard, computer, transcription, and document formatting with a

knowledge of civil law in general and personal injury law specifically.

Prerequisite: LEGA 1030

LING 2010 3 credits

Introduction to Linguistics 1 (3,0,0)

An introduction to phonetics, phonology and morphology. Students learn the basic physiology of the vocal tract, use of the International Phonetic Alphabet, sound patterning, and word formation. Data from a wide variety of languages are used for illustrative purposes. Students are not expected to have prior knowledge of these languages, though some knowledge of at least one second language is an asset.

Prerequisite: Recommended - 6 credits of any English and/or Modern language courses or equivalent

LING 2020 3 credits

Introduction to Linguistics 2 (3,0,0)

An introduction to syntax, semantics, and language issues. Students are introduced to the science of sentence structure and meaning and then explore one or more topics such as Language acquisition, history, etc. Data from a wide variety of languages are used for illustrative purposes. Students are not expected to have prior knowledge of these languages, though basic knowledge of at least one second language is an asset.

Prerequisite: Recommended - Completion of 6 credits of English and/or Modern Languages courses

MATH 0300 4 credits

Fundamental Math (8,0,0)

Adult Basic Education - Fundamental: This is an entry-level math course, which focuses on operations involving whole numbers, fractions, decimal, percents, and measurement. Problem-solving is practiced in all topic areas.

Note: This course is taught by the University and Employment Preparation Department

MATH 0400 4 credits

Basic Math Skills (6,0,0)

Adult Basic Education - Intermediate: Students practice and develop basic math skills, including a review of whole numbers, decimals, fractions, and percentages. Additional topics include systems of measurement, geometry, and an introduction to algebra.

Prerequisite: Minimum C+ standing in MATH 0300, or placement on the TRU entry assessment test at a MATH 0400 level; prerequisites must have been attained within the last two years

Note: This course is taught by the University and Employment Preparation Department. Prerequisites must have been attained within the last two years.

Students cannot receive credit for both MATH 0401 and MATH 0400

MATH 0410 4 credits

Algebra 1 (6,0,0)

Adult Basic Education - Intermediate: Students prepare for entry into Math 0510 or Math 0520, by reviewing basic math skills, graphing linear equations, performing operations with polynomials, handling inequalities, solving first and second degree equations and systems of two equations, and simplifying and solving rational and radical expressions and equations. Students are also introduced to right-triangle trigonometry. Together with MATH 0400: Basic Math Skills, this course fulfills the Adult Basic Education-Intermediate requirements.

Prerequisite: Minimum C+ standing in Math 0400, or placement on the TRU entry assessment test at a MATH 0410 level

Note: The prerequisite must have been attained within the last two years. This course is taught by the University and Employment Preparation Department.

Students cannot receive credit for both MATH 0500 and MATH 0410

MATH 0510 4 credits

Algebra 2 (6,0,0)

Adult Basic Education - Advanced: This course provides an advanced treatment of the topics covered in MATH 0410 and includes additional topics such as functions, graphs of quadratic functions, higher order radicals, systems of inequalities, and the trigonometric laws of sines and cosines.

Prerequisite: Minimum C standing in MATH 0410 or minimum C+ standing in Foundations of Mathematics and Pre-Calculus 10, or placement on the TRU entry assessment test at a Math 0510 level

Note: Prerequisites must have been attained within the last two years. This course is taught by the University and Employment Preparation Department. Students cannot receive credit for both MATH 0523 and MATH 0510

MATH 0520 4 credits

Foundations of Mathematics (6,0,0)

Adult Basic Education â€" Advanced: Students learn and practice math skills that include basic algebra, rates, linear relations, systems of linear equations/inequalities, quadratic functions, geometry, and trigonometry.

Prerequisite: Foundations of Mathematics 10 and Pre-Calculus 10 with a minimum C or equivalent, within the last two years.

Note: This course is taught by the University and Employment Preparation Department

MATH 0550 4 credits

Advanced Business and Technical Mathematics (6,0,0)

This course will provide the students with practical applications useful in future vocational training, careers, and personal life. Required outcomes include operations with real numbers, first degree equations and inequalities, and equations and graphing. Also learners must complete a minimum of three of the following optional learning outcomes: consumer mathematics, finance, data analysis, measurement, geometry, trigonometry, systems of equations, and trades option.

Prerequisite: MATH 0400

MATH 0600 4 credits

Pre-Calculus 1 (6,0,0)

Adult Basic Education - Provincial: This course is designed to provide students with a fundamental background to study calculus. Topics include a review of intermediate algebra, an introduction to functions, and a study of linear, quadratic, exponential, and logarithmic functions. Together with MATH 0610: Pre-Calculus 2, this course fulfills the ABE - Provincial Level (Grade 12 equivalency) requirements.

Prerequisite: Pre-Calculus 11 (minimum C) or equivalent, in the last two years

Note: This course is taught by the University and Employment Preparation Department. See transfer guide for transferability to other institutions.

MATH 0610 4 credits

Pre-Calculus 2 (6,0,0)

Adult Basic Education - Provincial: Students build on the skills developed in MATH 0600: Pre-Calculus 1. Topics include polynomial, rational, and trigonometric functions; analytical trigonometry; and sequences and series. Together with MATH 0600, this course fulfills the ABE Provincial Level (Grade 12 equivalency) requirements.

Prerequisite: MATH 0600 (minimum C), within the last two years

Note: This course is taught by the University and Employment Preparation Department

MATH 0630 4 credits

Provincial Pre-Calculus Mathematics (9,0,0)

Students will learn the necessary background to study calculus. Students will learn the purpose and application of ipolynomial, exponential, logarithmic, and trigonometric functions, analytic trigonometry, and sequences and seriesto solve problems.

Prerequisite: MATH 0510 (minimum B standing) or Pre-calculus 11 (minimum B standing), or equivalent, or permission of course instructor and completion of prerequisites within the last two years

MATH 0650 4 credits

Provincial Foundations of Mathematics (6,0,0)

Adult Basic Education - Provincial: This course is designed to prepare students with the math skills necessary for entry to programs or courses where Foundations of Math 12 is a prerequisite. Topics include logical reasoning and set theory, permutations and combinations, probability, exponential and logarithmic functions, polynomial and sinusoidal functions, and financial mathematics.

Prerequisite: Foundations of Math 11 or Pre-Calculus 11 (minimum C) or equivalent, within the last two years

MATH 1000 3 credits

Pre-Calculus (5,0,0)

This course provides the mathematical foundation for an introductory calculus course. Topics include equations and inequalities; functions, models, and graphs; polynomial and rational functions; exponential and logarithmic functions; trigonometric functions, identities and equations.

Prerequisite: Pre-calculus Math 12 or equivalent (British Columbia graduates of 2013 onwards) or Math 12 Principles or equivalent (British Columbia graduates prior to 2013) or MATH 0610 or MATH 0633, or B or better in MATH 0600

MATH 1070 3 credits

Mathematics for Business and Economics (3,1.5,0)

This course is designed for Business and Economics students. Topics include the review of linear and non-linear functions and models (including cost, revenue, profit, demand and supply), solving linear and non-linear systems of equations, matrices, linear programming, difference equations, and mathematics of finance (including simple and compound interest:

discrete and continuous, annuities, mortgages, and loans).

Prerequisite: Foundations of Math 12 or MATH 1000 or MATH 0600 (any of them within the last two years) or Departmental approval

Note: Students who already have credit for MATH 1100 may not take MATH 1070 for further credit

Required Seminar: MATH 1070S

MATH 1100 3 credits

Finite Mathematics with Applications 1 (3,1.5,0)

Intended primarily for Liberal Arts or Education students, this course is not acceptable for credit in Science or Commerce. The past twenty years have seen an explosive growth in the scope of mathematics so much that many of the Social Sciences are employing mathematics as a powerful research tool. This course is designed to expose students to the areas of mathematics that they are likely to require in future studies. Topics to be covered include counting, probability, matrices, linear programming, and Markov chains or difference equations.

Prerequisite: As of 2013, C standing in either Foundations of Math 11 or Principles of Math 11, or Applications of Math 12 or equivalent (British Columbia graduates prior to 2013); or MATH 0510 or MATH 0523 or equivalent

Note: Students will not receive credit for more than one of MATH 1100, MATH 1070, MATH 1101 and MATH 1071

Required Seminar: MATH 1100S

MATH 1130 3 credits

Calculus 1 for Engineering (3,1.5,0)

Students build a strong mathematical foundation for engineering by learning ideas, methods and applications of single-variable differential calculus. Limits and derivatives are defined and calculated, derivatives are interpreted as slopes and rates of change, and derivatives are then applied to many sorts of problems, such as finding maximum and minimum values of functions.

Prerequisite: Admission to the Engineering program

Note: Students who already have credit for MATH 1140, MATH 1141, MATH 1150, MATH 1170 or MATH 1171 may not take MATH 1130 for further credit

MATH 1140 3 credits

Calculus 1 (3,1.5,0) or (5,0,0)

Students practice differential calculus for functions of one variable, with applications that emphasize the physical sciences. Topics include calculation and interpretation of limits and derivatives; curve sketching; optimization and related-rate problems; and Newton's method.

Prerequisite: At least C+ in British Columbia Pre-calculus Math 12 or equivalent (British Columbia graduates of 2013 onwards) or Principles of Math 12 or equivalent (British Columbia graduates prior to 2013) or MATH 1000 or MATH 1001 or MATH 0610 or MATH 0633 within the last two years. In exceptional cases, for example, where a student has transferred from another educational system or has been out of school for several years, entry into MATH 1140 may be permitted based on a placement test administered (for these exceptional cases only) by the Department of Mathematics and Statistics during the first week of classes.

Note: Students who have credit for MATH 1130, MATH 1150, MATH 1170, MATH 1141, or MATH 1171 may not take MATH 1140 for further credit.

Note: Students who have never studied calculus, or who barely satisfy the course prerequisites, are advised to register in a section vectored (5,0,0).

MATH 1150 3 credits

Calculus for the Biological Sciences 1 (5,0,0) or (3,1,0)

Students are instructed in differential calculus for functions of one variable, with applications that emphasize the biological sciences. Topics include calculation and interpretation of limits and derivatives, curve sketching, optimization problems, and Newton's method.

Prerequisite: At least C+ in British Columbia Pre-calculus Math 12 or equivalent (British Columbia graduates of 2013 onwards) or Principles of Math 12 or equivalent (British Columbia graduates prior to 2013) or MATH 1000 or MATH 1001 or MATH 0610 or MATH 0633 within the last two years. In exceptional cases, for example, where a student has transferred from another educational system or has been out of school for several years, entry into MATH 1150 may be permitted based on a placement test administered (for these exceptional cases only) by the Department of Mathematics and Statistics during the first week of classes.

Note: Students who already have credit for MATH 1130, MATH 1140, or MATH 1170 may not take MATH 1150 for further credit. Students planning to take 2nd year Mathematics courses are encouraged to enroll in MATH 1140 and MATH 1240 or MATH 1130 and MATH 1230

MATH 1170 3 credits

Calculus for Business and Economics (3,1.5,0)

This course is intended for Business and Economics students. Topics include calculation and interpretation of derivatives, curve sketching, optimization (applied to business and economics), multivariable functions (including partial derivatives, optimization and Lagrange multipliers) and antiderivatives.

Prerequisite: At least C- in MATH 1070 or at least C+ in Pre-calculus 12 or MATH 1000 (any of them within the last two years) or Departmental approval. In exceptional cases, for example, where a student has transferred from another educational system or has been out of school for several years, entry to MATH 1400 may be permitted based on a placement test administered by the Department of Mathematics and Statistics during the first week of classes.

Note: Business students who have completed MATH 1400 or MATH 1410 with a C- or better will not receive credit for MATH 1170. Students who already have credit for MATH 1130, MATH 1140, MATH 1141 or MATH 1150 may not take MATH 1170 for further credit. Students planning to take second- year Mathematics courses are encouraged to enroll in MATH 1140 and MATH 1240 or MATH 1130 and MATH 1230. Required Seminar: MATH 1170S

MATH 1230 3 credits

Calculus 2 for Engineering (3,1.5,0)

Students learn the ideas and techniques of single-variable integral calculus from an engineering perspective. Integrals are defined, evaluated and used to calculate areas, volumes, arc lengths and physical quantities such as force, work and centres of mass. Differential equations are introduced and used to model various physical phenomena. Ideas about infinite series are pursued, including some convergence tests, with particular emphasis on Taylor series.

Prerequisites: MATH 1130

Note that students who have credit for MATH 1240, MATH 1241 or MATH 1250 cannot receive further credit for MATH 1230

MATH 1240 3 credits

Calculus 2 (3,1.5,0) or (5,0,0)

This course covers integral calculus for functions of one variable, with applications emphasizing the physical sciences. Topics include Riemann sums; definite and indefinite integrals; techniques of integration; improper integrals; applications to area, volume, arc length, probability, physics; separable differential equations; and series.

Prerequisite: MATH 1140, or MATH 1130, or MATH 1150 Note: Students who already have credit for MATH 1250 may not take MATH 1240 for further credit. Students planning to take 2nd year Mathematics courses are encouraged to enroll in MATH 1140 and MATH 1240 or MATH 1130 and MATH 1230.

Required Seminar: MATH 1240S

MATH 1250 3 credits

Calculus for the Biological Sciences 2 (5,0,0) or (3,1,0)

Students are instructed in integral calculus for functions of one variable, with applications that emphasize the biological sciences. Topics include Riemann sums, definite and indefinite integrals, techniques of integration, improper integrals, first-order differential equations and slope fields, (applications to area, probability, logistic growth and predator-prey systems), and series.

Prerequisite: MATH 1130, or MATH 1140, or MATH 1150

Note: Students who already have credit for MATH 1240 may not take MATH 1250 for further credit. Students planning to take 2nd year Mathematics courses are encouraged to enroll in MATH 1140 and MATH 1240 or MATH 1130 and MATH 1230

MATH 1300 3 credits

Linear Algebra for Engineers (3,1.5,0)

This course is designed for students in the first year Engineering Transfer program. Topics covered in this course include: vectors in R2 and R3; linear transformations; matrices and elimination; eigenvalues and eigenvectors and their application to Engineering problems. A computer lab component is used to explore applications.

Prerequisite: Admission to the Engineering Program

Corequisite: MATH 1130 or MATH 1140

Note: Credit cannot be obtained for both MATH 1300 and MATH 2120

Required Seminar: MATH 1300S

MATH 1380 3 credits

Discrete Structures 1 for Computing Science (3,1.5,0)

Students are introduced to the basic mathematical concepts used in computing science. Topics include the binary number system; computer arithmetic; logic and truth tables; Boolean algebra; logic gates and simple computer circuits; sets; relations; functions; vectors and matrices; counting; and probability theory

and statistics (mean, variance, median, mode, random variables).

Prerequisite: At least C+ in British Columbia Pre-calculus Math 12 or Foundations Math 12 or equivalent (British Columbia graduates of 2013 onwards) or Principles of Math 12 or equivalent (British Columbia graduates prior to 2013) or MATH 1000 or MATH 1001 or MATH 0610 or MATH 0633 within the last two years or permission of the instructor.Note: (if applicable) Same as COMP 1380. Students who already have credit for MATH 1700 may not take COMP/MATH 1380 for further credit.

Required Seminar: MATH 1380S

MATH 1390 3 credits

Discrete Structures 2 for Computing Science (3,1.5,0)

In this continuation of MATH 1380: Discrete Structures 1 for Computing Science, students build upon and apply mathematical concepts used in computing science. Topics include graph theory in terms of directed graphs; binary trees; languages; grammars; machines; an introduction to proofs and mathematical induction; and algorithm analysis.

Prerequisite: C or better in COMP 1380 or MATH 1380; or MATH 1070, or instructor's written consent

Note: (if applicable) Programming experience recommended. Same as COMP 1390. Students with MATH 1700 may not take COMP/MATH 1390 for further credit.

Required Seminar: MATH 1390S

MATH 1420 3 credits

Mathematics for Visual Arts (3,1.5,0)

Students explore mathematical concepts and techniques that are useful in a visual arts context. Topics include real numbers, ratios, geometry, and perspective.
Prerequisite: Foundations of Math 11, or Pre-calculus 11, or MATH 0500

Required Seminar: MATH 1420S

MATH 1540 3 credits

Technical Mathematics 1 (3,1.5,0)

Students are instructed in mathematical concepts that are relevant to architecture, design, and engineering. Topics include trigonometry, an introduction to two- and three- dimensional vectors, functions and graphs, solving linear and quadratic equations, systems of linear equations, matrices, coordinate geometry, areas and volumes of standard geometric shapes, and problem solving.

Prerequisite: Admission to the Architectural and Engineering Technology program

Required Seminar: MATH 1540S

MATH 1640 3 credits

Technical Mathematics 2 (3,1.5,0)

This is a calculus course for students in the Architectural and Engineering Technology program. The course offers instruction in differentiation and integration, with applications to curve sketching, extreme values and optimization, related rates, areas, volumes, and lengths of curves.

Prerequisite: A passing grade in MATH 1540 and Admission to the Architectural and Engineering Technology program

Required Seminar: MATH 1640S

MATH 1650 3 credits

Mathematics for Computing Science (3,1.5,0)

This course introduces further mathematical concepts used in Computing Science. Students are introduced to number systems; vectors and matrices; geometry; discrete probability, statistics and random variables.

Prerequisite: One of Pre-calculus 12 or Foundations of Math 12 (or equivalent) with a minimum grade of C+; within the last two years

Note: Students who already have credit for MATH 1380 or COMP 1380 may not take MATH 1650 for further credit

Required Seminar: MATH 1650S

MATH 1700 3 credits

Discrete Mathematics 1 (3,1.5,0)

Students are introduced to the foundation of modern mathematics including basic set theory; counting; solutions to recurrence relations; logic and quantifiers; properties of integers; mathematical induction; asymptotic notation; introduction of graphs and trees; finite state machines and formal languages; Boolean algebra.

Prerequisite: One of Pre-calculus 12 or Foundations of Math 12 (or equivalent) with a minimum grade of C+; within the last two years

Note: Students who already have credit for MATH 1390 or COMP 1390 may not take MATH 1700 for further credit

Required Seminar: MATH 1700S

MATH 1900 3 credits

Principles of Mathematics for Teachers (3,1.5,0)

This course is designed for students who wish to enter the Elementary Teaching Program. Basic mathematical concepts are examined in depth, with emphasis on underlying foundations, explanations, and problem solving that broaden students' perspectives of mathematics. Topics include: problem solving; numeration; exponents; geometry; measurement; ratios; counting theory; arithmetic algorithms; and additional topics at the instructor's discretion.

Prerequisite: Foundations of Math 11 or equivalent

Required Seminar: MATH 1900S

Note: Students may only receive credit for one of MATH 1900 or MATH 1901

MATH 2110 3 credits

Calculus 3 (3,1.5,0)

The concepts of single-variable calculus are extended to higher dimensions by using vectors as variables. Topics include the following: vector geometry and the analytic geometry of lines, planes and surfaces; calculus of curves in two or three dimensions, including arc length and curvature; calculus of scalar-valued functions of several variables, including the gradient, directional derivatives and the Chain Rule; Lagrange multipliers and optimization problems; double integrals in rectangular and polar coordinates.

Prerequisite: MATH 1230 or 1240 or equivalent; MATH 1300 for EECE Year 2 students

Corequisite: MATH 2120 recommended if MATH 1300 not previously completed

Required Seminar: MATH 2110S

MATH 2120 3 credits

Linear Algebra 1 (3,1.5,0)

Students are introduced to linear algebra. The topics discussed and explored in this course include vector spaces, bases and dimension, geometry of n-dimensional space, linear transformations and systems of linear equations.

Prerequisite: 6 credits of MATH numbered 1000 or higher or MATH 1000 with a minimum grade of A or equivalent

Note: Credit cannot be obtained for both MATH 1300 and MATH 2120

Required Seminar: MATH 2120S

MATH 2200 3 credits

Introduction to Analysis (3,1.5,0)

Analysis is a broad area of mathematics that includes calculus. This course presents some basic concepts of analysis in a mathematically rigorous manner, using theorems and proofs. Students are expected to develop some ability to understand proofs and to write their own proofs. After a survey of essential background material on logic, set theory, numbers and functions, the course covers suprema and infima of sets, completeness, basic metric topology of the real numbers (neighbourhoods, interior points and cluster points), continuity and limits.

Prerequisite: MATH 1240 or equivalent calculus. B- minimum strongly recommended.

Required Seminar: MATH 2200S

MATH 2220 3 credits

Discrete Mathematics (3,1,1)

This course is an introduction to discrete mathematical structures and their applications, intended for Computing Science majors especially but not exclusively. Topics include sets, propositions, permutations, combinations, relations, functions, graphs, paths, circuits, trees, recurrent relations, and Boolean algebra.

Prerequisite: MATH 1140 and COMP 1130, or equivalent

Note: This course is the same as COMP 2200 - Introduction to Discrete Structures

Required Seminar: MATH 2220S

MATH 2240 3 credits

Differential Equations 1 (3,1.5,0)

This course examines ordinary differential equations and related initial-value problems, and emphasizes their many applications in science and engineering. Students discuss methods for solving such equations either exactly or approximately. Topics include: first-order equations; higher order linear equations; modelling with differential equations; systems of linear equations; and phase plane analysis of nonlinear systems.

Prerequisite: MATH 2110 and MATH 2120

Required Seminar: MATH 2240S

MATH 2650 3 credits

Calculus 3 for Engineering (3,1.5,0)

Engineering students see how the concepts of single-variable calculus are extended to higher dimensions using vectors. Topics include analytic geometry of lines, planes and surfaces; calculus of curves in two and three dimensions, including arc length and curvature; calculus of real-valued functions of several variables, including the gradient, directional

derivatives and the Chain Rule; multi-variable Taylor approximations; optimization and Lagrange multipliers; double and triple integrals in rectangular coordinates and other coordinate systems; general variable changes in integrals; vector fields and gradient fields, curl and divergence.

Prerequisite: MATH 1230 and MATH 1300

Note: Credit will not be given for both MATH 2110/2111 and MATH 2650

MATH 2670 3 credits

Calculus 4 for Engineering (3,1.5,0)

Engineering students complete the calculus sequence by studying several topics that are important as background for professional engineers: vector calculus, including line integrals, conservative fields, Green's theorem, surface integrals, Stokes' theorem and the divergence theorem; ordinary differential equations, including methods of solution for first-order equations and higher order linear equations, Laplace transform methods and applications to mechanical vibrations and electric circuits; and basic Fourier series.

Prerequisite: MATH 2650

Note that students cannot receive credit for both MATH 2670 and MATH 3170

MATH 2700 3 credits

Discrete Mathematics 2 (3,1.5,0)

This course is a continuation of MATH 1700: Discrete Mathematics 1, and includes combinatorial arguments and proofs; deriving recurrence relations; generating functions; inclusion-exclusion; functions and relations; countable and uncountable sets; and graph theory.

Prerequisite: MATH 1700 or COMP/MATH 1390

Required Seminar: MATH 2700S

MATH 3000 3 credits

Complex Variables (3,1,0)

Students are introduced to the classical complex function theory, a cornerstone of mathematics. Topics include: complex derivatives and the Cauchy-Riemann equations; the complex exponential function and related elementary functions; integration along curves and Cauchy's theorems; Taylor and Laurent series; zeros and singularities; residues; and evaluation of integrals using the residue theorem.

Prerequisite: MATH 2200 or MATH 3170 (both are recommended)

Corequisite: MATH 2200 or MATH 3170 (both are recommended)

Required Seminar: MATH 3000S

MATH 3020 3 credits

Introduction to Probability (3,1,0)

This course provides a theoretical foundation for the study of statistics. Topics include basic notions of probability, random variables, probability distributions (both single-variable and multi-variable), expectation and conditional expectation, limit theorems and random number generation.

Prerequisite: MATH 2110

MATH 3030 3 credits

Introduction to Stochastic Processes (3,1,0)

Students examine simple random processes, including discrete and continuous Markov chains, Poisson processes and Brownian motion. Renewal theory is also discussed.

Prerequisite: MATH 3020

Required Seminar: MATH 3030S

MATH 3070 3 credits

Linear Algebra 2 (3,1,0)

This is a continuation of MATH 2120: Linear Algebra 1. Students explore such topics as: matrix diagonalization and its application to systems of linear differential equations and Markov chains; invariant subspaces; inner product spaces; Gram-Schmidt orthogonalization; linear operators of various special types (normal, self-adjoint, unitary, orthogonal, projections); the finite-dimensional spectral theorem; and bilinear and quadratic forms.

Prerequisite: MATH 2120

Required Seminar: MATH 3070S

MATH 3080 3 credits

Euclidean Geometry (3,1,0)

Students begin with the axiomatic development of geometry, and briefly explore possible variations in axioms. Students then progress to classical Euclidean geometry; geometric transformations; and the relevance of geometric transformations to computer graphics. The course concludes with a discussion of non-Euclidean geometries and projective geometry.

Prerequisite: MATH 2120

Required Seminar: MATH 3080S

MATH 3120 3 credits

Elementary Number Theory (3,1,0)

The course begins with integer divisibility and the related ideas of prime numbers, unique prime factorization, and congruence. Attention is then directed to arithmetic functions, including the Euler totient function. The Chinese Remainder Theorem and quadratic reciprocity are studied, and some Diophantine equations are considered. Lastly continued fractions and primitive roots are discussed.

Prerequisite: MATH 2120

Required Seminar: MATH 3120S

MATH 3160 3 credits

Differential Equations 2 (3,1,0)

This course is divided into three parts. The first part examines methods for solving ordinary differential equations. Power series methods are applied to obtain solutions near ordinary points and regular singular points, and the real Laplace transform is discussed. In the second part, students consider Sturm-Liouville boundary-value problems, Fourier series, and other series of eigen functions, including Fourier-Bessel series. The final part is an introduction to boundary-value problems involving partial differential equations, primarily: the heat equation; the wave equation and Laplace's equation, with applications in physics. The method of separation of variables is used.

Prerequisite: MATH 2240

Note: This course is the same as PHYS 3120

Required Seminar: MATH 3160S

MATH 3170 3 credits

Calculus 4 (3,1,0)

This course is a continuation of MATH 2110. Topics include triple integrals in rectangular, cylindrical and spherical coordinates, general change of variables in double and triple integrals, vector fields, line integrals, conservative fields, and path independence, Green's theorem, surface integrals, Stokes' theorem and the divergence theorem, with applications in physics.

Prerequisite: MATH 2110 or equivalent

Required Seminar: MATH 3170S

MATH 3200 3 credits

Real Variables (3,1,0)

The core of this course is a careful study of continuity and limits of real functions and convergence of real sequences and series, in addition to basic topology of the real line. Limit points and subsequences are discussed, leading to the Bolzano-Weierstrass theorem and the concept of a compact set. Metric spaces are introduced.

Prerequisite: MATH 2200 with a B- minimum and at least one of MATH 3070, MATH 3080, MATH 3120 and MATH 3220 | Required Seminar: MATH 3200S

MATH 3220 3 credits

Abstract Algebra (3,1,0)

Students are introduced to the abstract algebraic concepts of rings, fields, integral domains, homomorphisms and isomorphisms. The course concludes with a brief discussion about the treatment of groups.

Prerequisite: MATH 2120 and at least one of MATH 2200, MATH 3070, MATH 3080 and MATH 3120

Required Seminar: MATH 3220S

MATH 3400 3 credits

Introduction to Linear Programming (3,1,0)

Algorithms for linear programming are introduced and studied in this course, from both theoretical and applied perspectives. Topics include the graphic method; simplex method; revised simplex method; and duality theory. Special linear programming such as network flows and game theory are also explored.

Prerequisite: MATH 2120

Required Seminar: MATH 3400S

MATH 3510 3 credits

Problem Solving Applied Math (3,1,0)

This course provides learners with a systematic approach to problem solving. Students use a variety of analytical techniques to solve problems drawn from various disciplines. This course is of interest to students in any program where numerical problems may occur.

Prerequisite: C or better in any 100 level Mathematics or Statistics course with the exceptions of MATH 1000 and MATH 1900

Required Seminar: MATH 3510S

MATH 3650 3 credits

Numerical Analysis (3,1,0)

This course introduces standard numerical methods, including algorithms for solving algebraic equations (linear and nonlinear, single equations and systems) and for polynomial approximation and interpolation.

Prerequisite: MATH 2110, MATH 2120

Note: Students who already have credit for COMP 3320 may not take MATH 3640 for further credit

Required Seminar: MATH 3650S

MATH 3700 3 credits

Introduction to the History of Mathematics (3,1,0)

Students trace the development of numeration, arithmetic, geometry, algebra and other areas of mathematics, from their beginnings to their modern forms. The historical development studies is enhanced by the solution of mathematical problems using the techniques that were available in the period under study.

Prerequisite: MATH 1240 or equivalent

Required Seminar: MATH 3700S

MATH 3990 3 credits

Selected Topics in Mathematics (3,1,0)

Students consider, in depth, a selection of topics drawn from Mathematics. The particular topics may vary each time the course is offered.Prerequisite: 6 credits of MATH at the 2000 level or higher, or permission of the instructor | Required Seminar: MATH 3990S

MATH 4410 3 credits

Modelling of Discrete Optimization Problems (3,1,0)

Real-world optimization problems are formulated in order to be resolved by standard techniques involving linear programming, integer programming, network flows, dynamic programming and goal programming. Additional techniques may include post-optimality analysis, game theory, nonlinear programming, and heuristic techniques.

Prerequisite: MATH 3400

Required Seminar: MATH 4410S

MATH 4420 3 credits

Optimization in Graphs and Networks (3,0,0)

Topics include basic graph theory, tree searching algorithms, shortest paths, maximum flows, minimum cost flows, matchings, and graph colouring.

Prerequisite: MATH 3400

Required Seminar: MATH 4420S

MATH 4430 3 credits

Introduction to Graph Theory (4,0,0)

An introductory course deals mostly with non-algorithmic topics, including connectivity, Eulerian graphs, Hamiltonian graphs, planarity and Kuratowski's Theorem, matchings, graph colouring, and extremal graphs. Applications of graphs are discussed.

Prerequisite: MATH 2700 or at least 12 credits of Mathematics courses numbered 2000 or above, which can be taken concurrently

MATH 4950 6 credits

Honours Thesis in Mathematics (0,3,0)(0,3,0)

Students are required to conduct an independent investigation into a mathematical topic or problem at the advanced undergraduate level, under the supervision of a member of the Department of Mathematics and Statistics. The results of the study are to be typed and submitted as an Honours Thesis, and is defended orally at a public lecture before an examining committee.

Prerequisite: Admission into the Mathematics Honours Program (as part of a Bachelor of Science degree or a Bachelor of Arts degree) and the identification of a supervisor

MATH 4980 3 credits

Directed Studies in Mathematics

Students undertake an investigation on a specific topic as agreed to by the faculty member and the student.

Prerequisite: Permission of instructor

MATH 4990 3 credits

Selected Topics in Mathematics (3,1,0)

Students consider, in depth, a selection of topics drawn from Mathematics. The particular topics may vary each time the course is offered.

Prerequisite: 6 credits of MATH at the 3000 level or higher, or permission of the instructor

MEAT 1010

Safety and Sanitation (30 hours)

In this practice-based course with theory components, students are introduced to meat lab sanitation procedures. Topics include refrigeration guidelines and safety practices for all handtools, and power equipment used in a retail meat processing operation.

Prerequisite: Admission into the Retail Meat Processing program

MEAT 1020

Beef and Veal Carcass Processing (150 hours)

In this practice-based course with theory components, students are introduced to beef and veal carcass breaking procedures, merchandising practices for wholesale primals and sub-primals into retail cuts. Beef meat inspection and grading regulations, and product identification are also covered.

Prerequisite: Admission into the Retail Meat Processing program

MEAT 1030

Meat Science (30 hours)

This is a theory-based course with practical lab applications and observation designed to introduce students to the study of meat structure, common diseases, meat coloration, electrical stimulation, post mortem aging, pre-slaughter stress syndrome, meat nutrition and shear force analysis.

Prerequisite: Admission to the Retail Meat Processing program

MEAT 1040

Pork Processing (80 hours)

In this practice-based course with theory components, students are introduced to pork carcass breaking, merchandising, grading, specifications, variety meats and product identification.

Prerequisite: Admission into the RetailMeat Processing program

MEAT 1050

Lamb Processing (50 hours)

In this practice-based course with theory components, students are introduced to lamb carcass breaking, merchandising, grading, specifications, variety meats and product identification.

Prerequisite: Admission into the Retail Meat Processing program

MEAT 1060

Poultry Processing (50 hours)

In this practice-based course with theory components, students are introduced to poultry carcass processing, merchandising, grading specifications and product identification.

Prerequisite: Admission into the Retail Meat Processing program

MEAT 1070

Seafood Processing (30 hours)

This is a theory-based course with a basic practical component to introduce students to various types of commonly sold retail seafood items in the fresh whole state, fillets, chuck form and frozen states.

Prerequisite: Admission into the Retail Meat Processing program

MEAT 1080

Product Identification and Nomenclature (100 hours)

In this practice-based course with theory components, students expand on their existing knowledge of retail product legal names, utilizing practical lab sessions, and supporting theory media.

Prerequisite: Admission into the Retail Meat Processing program

MEAT 1090

Value Added Processing (50 hours)

In this practice-based course with theory components, students are introduced to bacon and ham curing, vacuum tumbled products, jerky processing and the preparation of chicken cordon blue and various types of cutlets.

Prerequisite: Admission into the Retail Meat Processing program

MEAT 1100

Fresh, Smoked and Cured Sausage (150 hours)

In this practice-based course with theory components, students are introduced to the history of sausage manufacturing. Topics include: processing and packaging materials; equipment and safety; spices; curing; smoking; and diseases associated with sausage manufacturing.

Prerequisite: Admission into the Retail Meat Processing program

MEAT 1110

Meat Nutrition and Cooking (30 hours)

This is a theory-based course with practical components designed to introduce students to the nutritional value of meat products, the cooking of raw meats, and advising consumers on cooking for various meat products.

Prerequisite: Admission into the Retail Meat Processing program

MEAT 1120

Customer Service and Employment Skills (150 hours)

This is a practice-based course with theory components and two separate three-week sessions, totalling six weeks. Students evaluate industry work experiences in two different locations, and are introduced to resume and cover letter writing skills for the retail meat processing industry. Customer service skills are developed through participation in the TRU meat store and complimented with course assignments and theory.

Prerequisite: Admission into the Retail Meat Processing program

MEAT 1130
Business Related Math (100 hours)
A theory based course with practical lab applications designed to introduce students to industry related business math that focuses on metric conversion, mark up, mark down, cutting analysis, shrinkage analysis, and break even. Inventory management controls include gross profit statements, wage and profit ratios and price booking.

Prerequisite: Admission into the Retail Meat Processing program

MEAT 2000
Meatcutting Apprentice Level 1 (140 hours)
Students are introduced to theory and gain hands-on lab experience in the following topics: occupational skills; handling beef, veal, pork, lamb, poultry, and seafood and freshwater fish.

Prerequisite: Registered Meatcutter Apprentice with the Industry Training Authority

MEAT 3000
Meatcutting Apprentice Level 2 (140 hours)
Students are introduced to theory and gain hands-on lab experience in the following topics: occupational skills; handling beef, veal, pork, lamb, poultry, seafood and freshwater fish, game, and processed meat products.

Prerequisite: Registered Meatcutter Apprentice with the Industry Training Authority

MFAB 1100
Metal Fabricator Level 1 (150 hours)
This course will introduce students to the full range of knowledge, abilities and skills required in the process of metal fabrication and fitting. Upon successful completion of this program the students should have the ability to interpret drawings in order to layout, mark, cut, burn, saw, shear, punch, drill, roll, bend, shape, form, straighten, fit, assemble, bolt, rivet, weld, test and inspect, prime and paint structural fabrications constructed from plates and structural shape of ferrous and non-ferrous metals.

MFAB 1500
Metal Fabricator - Foundation (690 hours)
This course will introduce students to the full range of knowledge, abilities and skills required in the process of metal fabrication and fitting. Upon successful completion of this program the students should have the ability to interpret drawings in order to layout, mark, cut, burn, saw, shear, punch, drill, roll, bend, shape, form, straighten, fit, assemble, bolt, rivet, weld, test and inspect, prime and paint structural fabrications constructed from plates and structural shape of ferrous and non-ferrous metals.

Prerequisite: Grade 10 minimum, however, Grade 12 is strongly recommended. Acceptable score on the Entry Assessment Test.

MFAB 2000
Metal Fabricator Level 2 (150 hours)
This is the second level of the BC ITA Apprenticeship and will further students full range of knowledge, abilities and skills required in the process of metal fabrication and fitting.

MFAB 3000
Metal Fabricator Level 3 (150 hours)
This course will introduce students to the full range of knowledge, abilities and skills required in the process of metal fabrication and fitting. Upon successful completion of this program the students should have the ability to interpret drawings in order to layout, mark, cut, burn, saw, shear, punch, drill, roll, bend, shape, form, straighten, fit, assemble, bolt, rivet, weld, test and inspect, prime and paint structural fabrications constructed from plates and structural shape of ferrous and non-ferrous metals.

MFAB 4000
Metal Fabricator Level 4 (150 hours)
Upon successful completion of this fourth and final apprenticeship course, students should have the ability to interpret drawings in order to layout, mark, cut, burn, saw, shear, punch, drill, roll, bend, shape, form, straighten, fit, assemble, bolt, rivet, weld, test and inspect, prime and paint structural fabrications constructed from plates and structural shape of ferrous and non-ferrous metals.

MICR 1580 3 credits
Veterinary Microbiology 1 (2,0,2)(L)
This course is an introduction to veterinary microbiology. Topics include microbial anatomy and physiology, culture media, antimicrobial susceptibility testing, sterilization and disinfection, mycology and virology.

Prerequisite: Admission to the Animal Health Technology program

Required Lab: MICR 1580L

MICR 1680 2 credits
Veterinary Microbiology 2 (0,1,3)(L)
Students are instructed in the theory and application of laboratory methods.

Prerequisite: MICR 1580. Admission to the Animal Health Technology program.

Required Lab: MICR 1680L

MIST 2610 3 credits
Management Information Systems (3,0,0)
Students acquire the knowledge and skills to effectively utilize information systems and technology in support of organizational strategy. Topics include an introduction to information systems; information systems strategy; ethics, privacy, and policy; data security; data and knowledge management; networks and communications technologies; wireless and mobile computing; e-business and e-commerce; Web 1.0, 2.0, 3.0, and social networks; systems development and managing information systems projects; and personal productivity software, including word processing, spreadsheet, and presentation software.

Prerequisite: ENGL 1100

Note: Students cannot receive credit for more than one of BBUS 1370, BBUS 1371, BBUS 2370, COMP 1000, COMP 1350, COMP 1700, COMP 1910 or MIST 2611

MIST 3620 3 credits
Web-Enabled Business Applications (3,0,0)
Students develop a comprehensive understanding of web technologies and their applications in business. Topics include foundation of e-business; overview of the technological foundations of the Internet and web; revenue models and payment systems; building a web presence; marketing on the web; legal and ethical issues; hardware and software for developing and hosting websites; online security and payment systems; and improving efficiency and reducing costs in business-to-business activities.

Prerequisite: CMNS 1290; MIST 2610

MIST 3630 3 credits
Data and Knowledge Management (3,0,0)
Students develop a theoretical and practical understanding of how to manage two of the most important assets of an organization: data and knowledge. Students examine issues related to the analysis, development, maintenance, and retention of information required for various organizational needs, and learn the fundamentals of how to implement solid knowledge management practices. Topics include an overview of data and knowledge management, modeling data in the organization, logical database design and the relational model, physical database design, data processing for business intelligence, data analysis and reporting, and managing organization data and knowledge.

Prerequisite: CMNS 1290; MIST 2610

MIST 4610 3 credits
Strategic Management Information Systems (3,0,0)
Students acquire the knowledge and skills to support decision-making and problem-solving processes in business and accounting. An emphasis is placed on managing the entire lifecycle of data, from collecting to interpreting, to modelling, to decision making, and finally to communicating the results. Topics include accounting information systems development; information technology auditing, including data and network security; developing enterprise reporting systems; managing data, principles of extensible markup language (XML), and extensible business reporting language (XBRL); and constructing, analyzing, and presenting a suite of spreadsheet-based, decision-making models.

Prerequisite: FNCE 2120 or FNCE 3120, SCMN 3320

Note: Students cannot receive credit for more than one of BBUS 4280 or MIST 4610

MIST 4620 3 credits
Information Security Management (3,0,0)
Students develop a general understanding of information technology security. Dependency on computer technology and the Internet has grown to a level where all organizations must devote considerable resources to managing threats to the security of their mobile, desktop and networked computer systems. Topics include introduction to information security; basic need for security; legal, ethical, and professional issues; risk management; information security policies and procedures; information security planning; access control systems and methodology; principles of cryptography; and operations security.

Prerequisite: CMNS 1290; MIST 2610

MIST 4630 3 credits
Information Technology Management for Business (3,0,0)
Students develop knowledge and experience in project management, as it applies to business software and information systems development.

Topics include the foundations of information systems project management for business; project management process stages; developing the project charter and baseline project plan; the human side of project management; defining and managing project scope; the work breakdown structure and project estimation; the project schedule and budget; managing project risk; project communication, tracking, and reporting; information systems project quality management; and project implementation and evaluation.

Prerequisite: MIST 3620; MIST 3630; MIST 4620

MKTG 2430 3 credits

Introduction to Marketing (3,0,0)

Students receive an overall view of the marketing function, the role of marketing in society and its application within organizations. Topics include an overview of marketing; developing a marketing plan and strategies; analyzing the marketing environment; consumer behaviour; segmentation, targeting, and positioning; developing new products; product, branding, and packaging decisions; pricing concepts and strategies; distribution strategies; and integrated marketing communications.

Prerequisite: CMNS 1290 (minimum C-) or equivalent

Note: Students cannot receive credit for more than one of MKTG 2430, MKTG 2431, MKTG 3430, TMGT 1150, BBUS 3430 or BBUS 3431

MKTG 3430 3 credits

Marketing (3,0,0)

Students receive an overall view of the marketing function, the role of marketing in society and its application within organizations. Topics include an introduction to marketing; developing a marketing plan and strategies; analyzing the marketing environment; consumer behaviour; segmentation, targeting, and positioning; developing new products; product, branding, and packaging decisions; pricing concepts and strategies; distribution strategies; and integrated marketing communications.

Prerequisite: CMNS 1290 (minimum of C-) or equivalent

Note: Students cannot receive credit for more than one of MKTG 2430, MKTG 3430, MKTG 2431, TMGT 1150, BBUS 3430 or BBUS 3431

MKTG 3450 3 credits

Professional Selling (3,0,0)

Students will gain an overall view of the professional selling function. They will come to understand the role of personal selling in marketing and society and its application within organizations. Topics include relationship selling opportunities; creating value with a relationship strategy; developing a relationship strategy; communication styles; creating production solutions; buying process and buyer behavior; approaching the customer; developing and qualifying a prospect base; determining customer needs; sales demonstration; negotiating buyer concerns; and closing and confirming the sale.

Prerequisite: MKTG 2430 (minimum C-) or equivalent

Note: Students cannot receive credit for more than one of MKTG 3450, MKTG 3451, HMGT 2120, BBUS 3450 or BBUS 3451

MKTG 3470 3 credits

Consumer Behaviour (3,0,0)

Students examine the psychological, social and cultural theories and concepts that provide insight into consumer behaviour and then apply these principles to different consumer decision-making contexts. Topics include defining consumer behaviour and consumer behaviour research and examining how perception, learning and memory, motivation and affect, self-perception, personality, life-style, values, attitude, group influences, income, social class, family structure, subcultures, and culture affect consumer decision making.

Prerequisite: MKTG 2430 (minimum C-) or equivalent

Note: Students cannot receive credit for more than one of MKTG 3470, MKTG 3471, TMGT 4130, BBUS 3470 or BBUS 3471

MKTG 3480 3 credits

Marketing Research (3,0,0)

Students develop an understanding of marketing research and its values in analyzing consumers, markets, and the environment. Topics include an introduction to market research, the marketing research industry and research ethics, the marketing research process, secondary data and databases, qualitative research, traditional survey research, primary data collection, measurement, questionnaire design, basic sampling issues, sample size determination, and statistical testing.

Prerequisite: MKTG 2430 and ECON 2330 (minimum C- grades) or equivalent

Note: Students cannot receive credit for both MKTG 3480 and TMGT 3050

Note: Students cannot receive credit for more than one of MKTG 3481, TMGT 3050, BBUS 3480 or BBUS 3481

MKTG 4400 3 credits

Professional Sales Management (3,0,0)

Students prepare for the role of an effective sales manager in today's hyper-competitive global economy by integrating current technology, research, and strategic planning activities. Topics include the role of the sales manager; buying and selling processes; customer relationship management; organizing the sales force; sales forecasting and budgeting; selecting, training, compensating, and motivating the salesperson; and evaluating salesperson performance.

Prerequisite: MKTG 3450 (minimum C-) or equivalent

Note: Students may not receive credit for more than one of MKTG 4400 or BBUS 4400

MKTG 4410 3 credits

Services Marketing (3,0,0)

Students develop a thorough understanding of the extended marketing mix and service quality in service businesses. Topics include new perspectives on services marketing; consumer behaviour in a service context; positioning services in competitive markets; developing service products; distributing services through physical and e-channels; the pricing and promotion of services; designing and managing service processes; balancing demand and productive capacity; crafting the service environment; managing people for service advantage; and service quality.

Prerequisite: MKTG 2430 (minimum C-) or equivalent

Note: Students may not receive credit for more than one of MKTG 4410, MKTG 4411, BBUS 4410 or BBUS 4411

MKTG 4412 3 credits

New Product Development (3,0,0)

Students develop the conceptual, analytical and decision-making skills and knowledge of industry best practices needed to successfully develop and launch new products and services. Topics include opportunity identification and selection; concept generation; concept evaluation; product/service development and product testing; and marketing testing and managing the product/service launch.

Prerequisite: FNCE 2120 and MKTG 3480 (minimum C- grades) or equivalent

MKTG 4420 3 credits

Brand Management (3,0,0)

Students learn how brands are managed as strategic assets. They develop the necessary knowledge and skills for creating, measuring, maintaining and growing brand equity in a competitive market place. Topics include an introduction to brands and brand management, identifying and establishing brand positioning and values, planning and implementing brand marketing programs, measuring and interpreting brand equity, and growing and sustaining brand equity.

Prerequisite: MKTG 2430 (minimum C-) or equivalent

Note: Students may not receive credit for more than one of MKTG 4420 or BBUS 4420

MKTG 4422 3 credits

Social Media Marketing (3,0,0)

Students examine the growing importance of social media as part of Internet marketing. The goal is to produce attractive up-to-date content that users will share as part of their own social networking websites. Topics include the role of social media marketing; goals and strategies; identification of target audiences; rules of engagement for social media marketing; social media platforms and social networking sites; microblogging; content creation and sharing; video marketing; marketing on photo sharing websites; discussions, news, social bookmarking and question and answer sites; content marketing; mobile marketing; social media monitoring; tools for managing the social media marketing effort; and social media marketing plan.

Prerequisite: MKTG 2430 or equivalent with a minimum C-

MKTG 4430 3 credits

Retail Management (3,0,0)

Students develop an in-depth understanding of retail and services management as well as non-store retailing. Topics include defining retail, customer behaviour, retail location decisions, merchandising, design and layout, retail pricing, promotion, retail employees, customer loyalty, and international retailing.

Prerequisite: MKTG 2430 (minimum C-) or equivalent

Note: Students may not receive credit for more than one of MKTG 4430, MKTG 4431, BBUS 4430 or BBUS 4431

MKTG 4450 3 credits

E-Commerce (3,0,0)

Students examine how the internet is rapidly becoming one of the primary communications, marketing and commercial medium for businesses in almost every industry, and how managers can effectively use this tool to execute their organization's strategic plans. Topics include the E-Commerce

business models and concepts; E-Commerce infrastructure; building E-Commerce presence; E-Commerce security and payment systems; E-Commerce marketing and advertising concepts; social, mobile and local marketing; ethical, social and political

issues in E-Commerce; online retailing and services; online content and media; social networks, auctions and portals; and business-to-business E-Commerce.

Prerequisite: MKTG 2430 (minimum C-) or equivalent

Note: Students may not receive credit for more than one of MKTG 4450, MKTG 4451, BBUS 4450, BBUS 4451 or BBUS 4453

MKTG 4460 3 credits

Marketing Strategy (3,0,0)

Students learn how to effectively analyze marketing problems and opportunities in a rapidly changing environment, and then develop appropriate strategies. Emphasis is placed on building long-term customer relationships and adopting a strong customer orientation through imagination, vision and courage. Topics include segmentation, targeting and positioning (STP); creating competitive advantage; marketing program development; implementation of the marketing plan; and developing and maintaining long-term customer relationships. A marketing strategy simulation, marketing project, or marketing audit is used to reinforce course concepts.

Prerequisite: FNCE 2120 (minimum C-) and MKTG 3480 (minimum C-) or equivalent

Note: Students cannot receive credit for more than one of MKTG 4460, MKTG 4461, BBUS 4460 or TMGT 4140

MKTG 4470 3 credits

International Marketing (3,0,0)

Students explore all aspects of marketing from a global perspective to better respond to international opportunities and competitive situations. Topics include an overview of international marketing; history and geography and its effect on culture; cultural dynamics in assessing global markets; culture, management style and business systems; the political environment; assessing global market opportunities in the Americas, Europe, Africa, Middle East, and Asia Pacific Region; planning for global market entry; products and services for international consuzmers; products and services for international businesses; and international marketing channels.

Prerequisite: MKTG 2430 (minimum C-) or equivalent

Note: Students may not receive credit for more than one of MKTG 4470, MKTG 4471, BBUS 4470 or BBUS 4471

MKTG 4480 3 credits

Integrated Marketing Communications (3,0,0)

Students examine the promotional mix including advertising, publicity, personal selling and sales promotion from an integrative perspective. They then learn how to create and manage these promotional tools to successfully execute a business' strategic plan. Topics include an introduction to integrated marketing communication; organizing integrated marketing communication; consumer behavior and target market review; communication response models; objectives and the integrated marketing communication plan; brand positioning strategy decisions; creative strategy decisions; creative tactics decisions; types of media; media planning and budgeting; social, ethical and legal issues; and international marketing communications.

Prerequisite: MKTG 2430 (minimum C-) or equivalent

Note: Students may not receive credit for more than one of MKTG 4480, MKTG 4481, BBUS 4480 or BBUS 4481

MKTG 4490 3 credits

Business-to-Business Marketing (3,0,0)

Students examine how important the marketing of products and services to other businesses and organizations is to the economy, the unique nature of business customers' needs, and the different marketing strategies that can be employed to meet those needs. Topics include business markets and business marketing; character of business marketing; organizational buyer behavior; legal and regulatory environment; marketing strategy; market opportunities for current and potential customers via market research; segmentation, targeting and positioning in the business-to-business context; developing and managing product and service offerings; innovation and competitiveness; pricing; business development and planning; sales; branding; business marketing channels and partnerships; connecting through advertising, trade shows, and public relations; marketing via the Internet; and business ethics.

Prerequisite: MKTG 2430 (minimum C-) or equivalent

Note: Students may not receive credit for more than one of MKTG 4490, MKTG 4491, BBUS 4490 or BBUS 4491

MLAN 1110 3 credits

Introductory World Language 1 (3,0,1)(L)

This shell course provides students with an opportunity to study a language not regularly offered in the Modern Languages program. It is offered periodically, and the language taught may vary from year to year.

MLAN 1210 3 credits

Introductory World Language 2 (3,0,1)(L)

This shell course provides students with an opportunity to continue their study of a language not regularly offered in the Modern Languages program. The language taught may vary from year to year. MLAN 1210 is offered as the continuation of MLAN 1110, and is subject to demand.

Prerequisite: MLAN 1110 or instructor permission

MLAN 2700 6 credits

Field School in Modern Languages (3,3,0)

Students travel to another country for the purpose of studying language and culture. Field schools may be offered in Chinese, German, French, Japanese, Spanish, or other languages which might be taught in the future in the Modern Languages program. In the case of French only, travel may be within Canada (i.e. to Quebec). Field schools vary in length up to 6 weeks, and this may include classroom time prior to travel.

Prerequisite: Students must have completed at least one year of study (or equivalent) in the field school target language. The field school instructor authorizes equivalency.

Note: This course may be taken more than once.

MLAP 1120 2 credits

Anatomy, Physiology and Medical Terminology (2,0,0)

In this course the focus is on developing knowledge and comprehension in basic anatomy and physiology, medical terminology measurement units. The emphasis is on medical terminology.

MLAP 1130 1 credits

The Electrocardiogram (1,0,0)

This introductory course covers the theory behind the specific anatomy of the heart, the conductive system of the heart, the electrocardiogram, as well as the diagnostic aspects of the electrocardiogram.

MLAP 1210 3 credits

Professional and Safety Issues (3,0,0)

The main objectives of this course are to clarify the medical laboratory assistant's role in health care, to promote the need for professionalism and to present a positive attitude towards safety in the workplace.

MLAP 1310 3 credits

Laboratory Procedures and Protocols (3,0,0)

This course focuses on specific laboratory procedures and protocols. Topics include specimen collection, specimen handling and distribution, culture media preparation and office and billing procedures.

MLAP 1410 3 credits

Evaluation of Competencies (3,0,0)

Specific technical and non-technical aspects of the MLA's work is evaluated, according to criteria and curriculum supplied by BCSMT. The evaluation will normally be conducted by a medical laboratory technologist in a supervisory position at the clinical facility in which the MLA is employed.

MLAP 1510 3 credits

General Pre-Analytical Specimen Preparation (3,0,0)

This course is designed for the Medical Laboratory Assistant and covers the basic concepts of pre-analytical specimen preparation including Microbiology, Serum Separation, loading specimens on automated instruments, and Urinalysis.

Prerequisite: Graduate of a recognized Medical Laboratory Assistant program or equivalent

MLAP 1610 3 credits

Pre-Analytical Histo-Pathology (3,0,0)

This course is designed for the Medical Laboratory Assistant and covers the basic concepts of pre-analytical Histo-Pathology including: Anatomic Pathology/Histology specimens, preparation for cutting, processing and accessioning. It will also include a Cytology component covering specimen preparation, processing and accessioning.

Prerequisite: Graduate of a recognized Medical Laboratory Assistant program or equivalent

MLWT 1000

Industrial Mechanic (Millwright) Apprenticeship Level 1

This course is intended for sponsored first-year apprentices in the Industrial Mechanic (Millwright) field. Students will be introduced to and trained to perform the following skills safely; dismantle, install, set up, repair, overhaul and maintain machinery and heavy mechanical equipment. This includes; power transmissions, conveyors, hoists, pumps,

compressors, alignment, fluid power and performing vibration analysis. Prerequisite: BC ITA sponsorship

MLWT 1500

Industrial Mechanic (Millwright) Foundation

This course is intended for those without prior experience in the Industrial Mechanic (Millwright) field. Students will be introduced to and trained to perform the following skills safely; dismantle, install, set up, repair, overhaul and maintain machinery and heavy mechanical equipment. This includes; power transmissions, conveyors, hoists, pumps, compressors, alignment, fluid power and performing vibration analysis.

Prerequisite: Admission to the Industrial Mechanic (Millwright) Foundation Certificate program

MLWT 1900

Industrial Mechanic (Millwright) Trade Sampler (120 Hours)

Students will be introduced to the Millwright/Machinist trade, the type of work these trades entail and the opportunities for jobs in these trades. Referring to the Program Outlines from the Industry Training Authority of BC, they will learn about safe work practices for these trades, safe use of hand tools and machinery lockout procedures. Students are then exposed to hands-on practical competencies using hand tools, drill press, lathe, taps & dies and milling machine, as well as repair, overhaul, alignment and maintenance of machinery such as conveyors, bearings,

reducers, pumps, alignment, power transmissions, rigging and hydraulics.

Prerequisite: Completion of Grade 10

MLWT 2000

Industrial Mechanic (Millwright) Apprenticeship Level 2

This course is intended for those with their level one certification and prior experience in the Industrial Mechanic (Millwright) field. Students will learn to dismantle, install, set up, repair, overhaul and maintain machinery and heavy mechanical equipment including; power transmissions, conveyors, hoists, pumps, compressors, alignment, fluid power and performing vibration analysis.

Prerequisite: BC ITA sponsorship

MLWT 3000

Industrial Mechanic (Millwright) Apprenticeship Level 3

This course is intended for those with their level two certification and have substantial prior experience in the Industrial Mechanic (Millwright) field. Students will learn to dismantle, install, set up, repair, overhaul and maintain machinery and heavy mechanical equipment including; power transmissions, conveyors, hoists, pumps, compressors, alignment, fluid power and perform vibration analysis.

Prerequisite: BC ITA sponsorship

MLWT 4000

Industrial Mechanic (Millwright) Apprenticeship Level 4

This course is intended for those with their level three certification, have substantial experience in the Industrial Mechanic (Millwright) field and are prepared for their final level of certification with the BC ITA. Students will learn to dismantle, install, set up, repair, overhaul and maintain machinery and heavy mechanical equipment including; power transmissions, conveyors, hoists, pumps, compressors, alignment, fluid power and perform vibration analysis.

Prerequisite: BC ITA sponsorship

MNGT 1710 3 credits

Introduction to Business (3,0,0)

Students are introduced to basic management principles and the functional areas of business. Topics include the business environment from a legal, regulatory, economic, competitive, technological, social, ethical, and global perspective; the functions of management, specifically planning, organizing, leading, and control; the different business functions, including human resources, supply chain management, marketing, and financial management; and the forms of business ownership and the importance of entrepreneurship.

Prerequisite: English 12/English 12 First Peoples with a minimum of 73% (with the government exam within the last 5 years); or level 5 on the compositions section of the Language Proficiency Index (LPI), with all other categories of the LPI at a minimum of 70% (within the last 2 years); or satisfactory completion of the TRU English Assessment (ACCUPLACER) at the university entrance level; or completion of ENGL 0600 with a grade of C+ or better; or completion of ESAL 0570 and ESAL 0580 with a grade of C+ or better.

Note: Students cannot receive credit for more than one of MNGT 1711, MNGT 1701 or MNGT 1710

MNGT 3710 3 credits

Business Ethics and Society (3,0,0)

Students explore the complex business environment and the relationships organizations have with each other, civil society, and the natural environment. Through this examination, students learn how critical ethical decision-making is to the successful management of any organization. Topics include elements of critical thinking, business ethics fundamentals, frameworks for ethical thinking, awareness of ethical pitfalls, ethical reasoning, ethical principles, drafting a code of ethics, illustrating an ethical decision-making process, applying ethical decision-making skills, ethical decision-making in the workplace, corporate social responsibility and sustainable development, and stakeholder theory.

Prerequisite: CMNS 1290

Note: Students cannot receive credit for more than one of BBUS 3030, MNGT 3711, BBUS 3031 or MNGT 3710

MNGT 3730 3 credits

Leadership (3,0,0)

Students cultivate a deep understanding of what leadership is and what leaders do to be successful. An emphasis is placed on the development of practical leadership skills. Topics include an introduction to leadership, leadership traits, leadership style and philosophy, leadership and relationships, developing leadership skills, leadership and ethics, creating a vision, leadership and out-group members, leadership and conflict, and managing obstacles to effective leadership.

Prerequisite: CMNS 1290 and ORGB 2810

Note: Students cannot receive credit for more than one of BBUS 3671, MNGT 3731, BBUS 3641 or MNGT 3730

MNGT 4710 3 credits

Decision Analysis (3,0,0)

Students focus on the development, implementation, and utilization of business models for making informed managerial decisions. Models and management cases from diverse industries, and functional areas are used extensively to illustrate important decision tools, their assumptions and limitations, and how to communicate decisions to management. Topics include critical thinking, avoiding bias in decision making, data analysis, decision analysis, forecasting, resource allocation, and risk analysis.

Prerequisite: ACCT 2250; ECON 2330 or equivalent; MNGT 3730

Note: Students cannot receive credit for more than one of MNGT 4711, BBUS 3621 or MNGT 4710

MNGT 4720 3 credits

Negotiation and Conflict Resolution (3,0,0)

Students are introduced to the fundamental theories of negotiation and conflict resolution and the essential skills required to be a successful negotiator. The negotiation process is pervasive in business, and the ability to negotiate is an essential skill for successful managers. Topics include the nature of negotiation; strategy and tactics of distributive bargaining and integrative negotiation planning; integrative negotiation; negotiation, planning, and strategy; perception, cognition, and emotion; communication and the negotiation process; power; and ethics.

Prerequisite: MNGT 3730

MNGT 4730 3 credits

Business Project Management 1 (3,0,0)

Students are introduced to the concepts and frameworks of project management. Topics include an introduction to project management, life-cycle management, feasibility, selection, scope management, scheduling, costing, leadership, and managing teams.

Prerequisite: ACCT 2250; ECON 2330 or equivalent; MNGT 3730

Note: Students cannot receive credit for more than one of MNGT 4751, BBUS 4681, or MNGT 4730

MNGT 4740 3 credits

Business Project Management 2 (3,0,0)

Building on on MNGT 4730: Business Project Management 1, students further develop their understanding of the practical and systematic tools used to successfully plan and manage complex projects. Topics include resource constrained schedules; budgeting; performance and progress reporting; risk management; communication, organization, and time management; advanced management and control; special topics such as contracts, environmental sustainability, and international projects; and applications of project management practice in various industries and environments.

Prerequisite: MNGT 4730

Note: Students cannot receive credit for more than one of MNGT 4751, BBUS 4681 or MNGT 4740

MNGT 4780 3 credits

Strategic Management (4,0,0)

Students explore the basic concepts and methodologies of developing and executing successful

business strategies in a dynamic global environment. Effective strategy is about developing competitive advantage. Learners develop insights into the working of CEOs and top management teams in preparation for senior positions in organizations. Topics include an introduction to strategic management, an analysis of the internal and external environments, business-level strategy, competitive strategy and dynamics, corporate-level strategy, acquisition and restructuring strategies, international strategies, and strategy implementation.

Prerequisite: FNCE 2120 or FNCE 3120; MKTG 2430 or MKTG 3430; HRMN 2820 or HRMN 3820; SCMN 3320; IBUS 3510

Note: It is recommended that this course be taken in the student's final year. Students cannot receive credit for more than one of BBUS 4701, BBUS 4780, MNGT 4781 or MNGT 4780

MPET 1900

Motorcycle Technician Trade Sampler (120 hours)

This course is a sampler of the motorcycle technician trade based on the Motorcycle Technician Foundation Program outline from the Industry Training Authority of BC. Students will gain familiarity with the safe use of hand tools, portable power tools and other equipment regularly used by motorcycle technicians, as well as gaining familiarity with many of the materials used in the trade. The emphasis of this course is on developing practical, hands-on motorcycle technician skills.

Prerequisite: Completion of Grade 10

MTST 4700 3 credits

The Mountain Village Experience (3,0,0)

In this interdisciplinary course, students explore the artistic, political, cultural, representational, touristic, marketing, policy, and/ or philosophical dimensions of the mountain village experience, including the creation and consumption thereof.

Prerequisite: 3rd year standing

MTST 4800 3 credits

Mountain Studies Field Course: Mountain Resorts (3,0,0)

This interdisciplinary capstone course is offered in co-operation with a mountain resort experience company. The issues and theories studied thoughout the Mountain Studies in the Bachelor of Tourism Management program are augmented by giving students the opportunity to apply, test, and understand them in a real-life context. Classes occur on campus and at selected winter resorts, with the participation of resort personnel to offer expertise.

Prerequisite: TMGT 3050 and either 4th year standing in the Bachelor of Tourism Management's concentration in Mountain Studies or 2nd year standing in the Post-Baccalaureate Diploma in Tourism in Mountain Environments

MUSI 1700 3 credits

Chorus 1 (0,3,0)

Students explore vocal and part-singing techniques, large ensemble skills, note and rhythm reading skills, and pronunciation of various language texts. The human body as a musical instrument is studied, with special emphasis on postural alignment, breath support, and sound production. Students are evaluated on their comprehension of theory, musical proficiency, and efficient use of rehearsal time by way of written and aural examinations, and a class performance.

MUSI 1800 3 credits

Chorus 2 (0,3,0)

A continuation of MUSI 1700, students further explore vocal and part-singing techniques, large ensemble skills, note and rhythm reading skills, and pronunciation of various language texts. Students expand their understanding of the human body as a musical instrument in the study of postural alignment, breath support and sound production. Students are evaluated on comprehension of theory, musical proficiency and efficient use of rehearsal time by way of written and aural examinations and a class performance.

Prerequisite: MUSI 1700 or audition

MUSI 2700 3 credits

Advanced Chorus 1 (3,0,0)

Students study choral music from several periods of Western history. Special emphasis is placed on early music and polyphony. Students explore music from composers such as Tallis, Palestrina, Handel, Bach and Mozart. Students apply basic sight singing skills and vocal technique appropriate to choral singing and are expected to participate in several public performances.

Prerequisite: MUSI 1800 with a minimum grade of B- or instructor permission

MUSI 3800 3 credits

Senior Chorus 1 (3,0,0)

Students study in greater depth music of the Western choral tradition. Emphasis is placed on the Romantic and 20th-Century eras. Students should be able to sight-sing with some support. With a strong emphasis on performance, students will be expected to perform a cumulative repertoire of works. There is a strong focus on skills which are applicable to choral conducting. Students learn the basics about choral warm up and rehearsal structure, with the unique opportunity to conduct their peers.

Prerequisite: MUSI 2700 with a minimum grade of B- or instructor permission

NAST 0500 4 credits

Introduction to First Nations Studies (6,0,0)

ABE - Advanced: This course provides students with an overview of historical and current social, economic, and political issues concerning Native people.

Prerequisite: None

Note: This course is taught in Williams Lake

NAST 0600 4 credits

An Overview of Major Issues in First Nations Studies (6,0,0)

In this course, students explore issues related to the role of elders, women, and leaders in matters pertaining to health, education, justice, and economical development in First Nations communities and off-reserve communities. Using the articles found in the textbook as a guide, the instructor will draw upon community resources to supplement the course content. Classroom activities will include presenting in small groups and conducting library and Internet searches.

Prerequisite: ENGL 0500 or equivalent

NRSC 1110 3 credits

The Science and Management of Natural Resources (2,0,2)(L)

Students are provided with an overview of current issues in the management of natural resources. This serves as an introductory core course in the Bachelor of Natural Resource Science program, however, it is tailored for all students with a general interest in natural resources. In addition to lectures and laboratory exercises, students consider how scientific inquiry and knowledge can be integrated with social, economic, and cultural values to develop management strategies. Topics of discussion include a diversity of resource issues, such as forestry, soils, rangeland, water, fisheries, wildlife, and entomology.

Required Lab: NRSC 1110L

NRSC 1120 3 credits

Dendrology 1 (3,0,2)(L)

Dendrology is a survey of the structure, function, ecology, and identification of trees. A lecture component in this course includes two major topics: 1) the structure and function of trees, such as reproduction, development, anatomy, morphology, and physiology; 2) the ecology and evolution of trees. Through the laboratory component, students survey a selection of Canadian, North American, and introduced tree species. Deciduous species are emphasized; coniferous species are studied in NRSC 1220. Field trips are an integral part of the course.

Prerequisite: BIOL 0600

Corequisite: BIOL 1110 | Required Lab: NRSC 1120L

NRSC 1220 3 credits

Dendrology 2 (3,0,2)(L)

This course is a continuation of NRSC 1120: Dendrology 1. Students survey a selection of British Columbian, Canadian, North American, and introduced coniferous tree species.

Prerequisite: NRSC 1120

Corequisite: BIOL 1210

Required Lab: NRSC 1220L

NRSC 1500 3 credits

Introduction to Climate Change Science (3,0,1)(L)

This course examines the evidence for, and impacts of climate change. The class will focus on the observed changes in climate, the causes of climate change, projected future climate change and mitigation options for decreasing the impact of climate change. Weekly labs will provide hands-on learning experiences that complement the lecture material. Weekend field trips may be required.

Required Lab: NRSC 1500L

NRSC 2000 3 credits

Introduction to the Study of Soils (3,0,2)(L)

Students investigate the physical, chemical, and biological properties of soils. Topics include soil formation, classification, use, and conservation. Students focus on forest soils for this course.

Required Lab: NRSC 2000L

NRSC 2100 3 credits

Forest Ecology and Silvics 1 (3,0,2)(L)

The main objectives of this course are to facilitate students' learning of the complexities and interactions that make up forest ecosystems, and how this

knowledge can be used in predicting forest ecosystem responses to both natural and human-induced disturbances. Upon completion, students have an appreciation of forest ecosystem structures and functions, and how these components interact; how forest ecosystems change over time, and the ecological effects of various forest management practices. Additional topics include the spatial variation in forest ecosystems, methods of describing these variations, the characteristics of biogeoclimatic zones in British Columbia, and the identification and interpretive use of indicator plant species in the description of forest ecosystems.

Prerequisite: NRSC 1120/1220 or completion of 1st year general science

Required Lab: NRSC 2100L

NRSC 2110 3 credits

Forest Mensuration (3,0,2)(L)

This course teaches the student techniques used in basic photogrammetry, photo mapping and photo-based inventory systems. Use of maps and mapping systems will be implemented. Techniques for the measurement of tree stand variables, calculating tree volumes, estimating form and taper, as well as timber scaling and grading will be taught. Regression techniques will be used in the analysis of data collected by students. Some weekend fieldwork may be required.

Prerequisite: COMP 1350

Corequisite: STAT 2000 or BIOL 3000

Required Lab: NRSC 2110L

NRSC 2200 3 credits

Forest Ecology and Silvics 2 (3,0,2)(L)

Students examine the ecological and silvical characteristics of forest trees of Western Canada, with emphasis on ecological site assessment and applications of silvics in silviculture. This course also explores the identification and interpretive use of indicator plant species in the description of forest ecosystems, the soil and site features used in determining site quality, and the diagnostic procedures used in determining site quality.

Prerequisite: NRSC 2000 and 2100 or permission of the instructor

Required Lab: NRSC 2200L

NRSC 2230 3 credits

Geographic Information Systems (3,0,2)(L)

This course introduces students to geodesy and geoinformatics, topics of study commonly referred to collectively as geomatics. Course topics include: common geographic coordinate systems; common map projections; geospatial data models; setting coordinate systems; loading geospatial data; visualization of geospatial data; manipulating feature and coverage values; and basic geoprocessing procedures. Labs will provide hands-on experience with ArcGIS, the leading GIS software in the industry, towards the goal of developing marketable skills geographic information management.

Required Lab: GEOG 2230L

Note: This course is identical to GEOG 2750

NRSC 3000 3 credits

Diversity and Ecology of the Vertebrates (3,0,3)(L)

Students in the natural resource field are introduced to vertebrate biology. The three main themes are animal ecology, comparative anatomy, and the systematics and identification of amphibians, reptiles, birds and mammals. Students address the evolutionary ecology of these groups, including the adaptive significance of morphological, physiological and behavioural traits. Key concepts of vertebrate ecology, such as evolution and the theory of natural selection, are introduced in addition to basic vertebrate anatomy and functional morphology. Laboratory work involves anatomical dissections and the taxonomic identification of terrestrial vertebrates, particularly those species found in British Columbia.

Prerequisite: An introductory course in ecology or evolution is recommended. Students who have taken BIOL 2250 or its equivalent need to contact the instructor prior to registering in the course.

Note: Students who have taken BIOL 4270 cannot receive credit for this course

NRSC 3020 3 credits

Wildlife Research Techniques (3,0,3)(L)

Students are familiarized with and gain confidence using basic techniques and research tools used to study wildlife. The focus of the course is hands-on experience in the field and in the lab, preceded by background material in the lecture. Topics include survey design, radio-telemetry, mark-recapture, computer modeling, and wildlife habitat assessment. Students are required to take part in field work that may take place outside of scheduled class time, including at least one weekend field trip.

Prerequisite: BIOL 3000 or a similar introductory statistics course; BIOL 3030 recommended

Required Lab: NRSC 3020L

NRSC 3110 3 credits

Grassland Ecology (3,0,2)(L)

This course provides an introduction to grassland ecology principles with the focus on BC grassland systems. Lectures will cover the difference between grasslands and rangelands, grassland physical characteristics, grassland ecosystems with a focus on BC grassland plant communities, plant physiology, succession, assessment theories, and monitoring of grassland, shrubland and savanna ecosystems. Labs will focus on grassland plant identification and characteristics of BC grassland plant communities.

Prerequisite: NRSC 2100 or permission of the instructor

Required Lab: NRSC 3110L

NRSC 3170 3 credits

Ichthyology (3,0,3)(L)

This course educates students in the systematics, anatomy, physiology, life history, and ecology of freshwater and marine fishes. Students learn to identify local freshwater fishes, and salmon species.

Prerequisite: NRSC 2100 or equivalent

Note: This course is cross-listed as BIOL 3290

Required Lab: NRSC 3170L

NRSC 3200 3 credits

Silviculture (3,0,2)(L)

This course emphasizes silvicultural concepts and principles as they apply to forest stand and landscape level management. Specific topics include principles of forest tree improvement; seed handling; nursery practices and artificial regeneration; natural regeneration and stand tending practices (thinning, pruning, vegetation management, fertilization and site preparation). A variety of silviculture systems are discussed in relation to economics, wildlife, biodiversity, and sustainability. The laboratories are designed as both field exercises and indoor laboratory sections (including computer modeling). Several field trips offer students an opportunity to observe forest nursery operations, woodlot management, and forest operations.

Prerequisite: NRSC 2000, 2100, 2110, 2200 or permission of the instructor

Required Lab: NRSC 3200L

NRSC 3210 3 credits

Range Management (3,2,0)

Students explore applied range ecology and range management planning. Lecture topics include range history; range inventory and monitoring; animal management; stocking rates; animal distribution; grazing systems; cultivated forages; range improvements and developments; integrated use; legislation; and current grassland issues. Course material is used to develop a range management plan.

Prerequisite: NRSC 3110 or permission of the instructor

Required Seminar: NRSC 3210S

NRSC 3250 3 credits

Natural Resource Field Studies (0,1,8)(0,1,0)(L)

Students in the Bachelor of Natural Resource Sciences program gain hands-on experience in the field, on topics pertinent to natural resource management. Under the rotating supervision of different faculty members, students conduct field surveys or visit sites where management activities are underway. The exercises include GIS and vegetation mapping, soil analyses, range management, and fisheries and wildlife work. Field exercises may require data analysis and written reports. Participation and completion of all field trips and subsequent reports are required. This course also serves the purpose of providing field trips for other concurrent 4th year courses in the Bachelor of Natural Resource Science program. Weekend field work is required.

Prerequisite: NRSC 2230, NRSC 4130, BIOL 3000 and 4th year standing in the Bachelor of Natural Resource Science program

Corequisite: NRSC 3210/3220

Required Seminar: NRSC 3250S

NRSC 3260 3 credits

Limnology (3,0,3)(L)

This course offers theoretical and applied aspects of limnology. Students consider the ecology of inland water organisms in relation to the physical, chemical, and biological factors that affect their interactions and production.

Prerequisite: NRSC 2100 or equivalent, BIOL 3000 or equivalent

Note: This course is cross-listed as BIOL 4020

Required Lab: NRSC 3260L

NRSC 3980 1 credits

Introduction to Research (0,1,0)

This course is available to 3rd year students who may be contemplating entry into the Honours program or undertaking a Directed Studies research project in their 4th year. The seminar focus is on formulation of

a research hypothesis and production of a research proposal in preparation for application to do an Honours or Directed Study research project. Honours students are expected to take this course, although the learning objectives may be completed under the supervision of an individual faculty member.

Prerequisite: 3rd year standing in a Bachelor of Science or Bachelor of Natural Resource Science program

NRSC 4020 3 credits

Natural Resource Entomology (2,0,2)(L)

Students are familiarized with significant entomology topics including the environmental and economic role of insects in forest ecosystems; the identification and basic biology of major groups of forest insects; behavioural ecology and population dynamics of major insect pests; an introduction to chemical ecology of insects; forest health and beneficial or pest insect balance; an introduction to management strategies for major forest insect pests; and the implications in context of the Forest Practices Code.

Prerequisite: BIOL 3030, NRSC 2100/2200

Corequisite: NRSC 3200

Required Lab: NRSC 4020L

NRSC 4030 3 credits

Natural Resource Pathology (2,0,2)(L)

Pathology deals with the biology (anatomy, morphology, physiology, life cycles), ecology, identification, and management of tree diseases. This course emphasizes the common tree diseases of western North American forests, and of British Columbia in particular. The course also includes information on the significant tree diseases of Eastern North America.

Prerequisite: NRSC 2100 and NRSC 2200

Required Lab: NRSC 4030L

NRSC 4040 3 credits

Wildlife Management and Conservation 1: Theory and Principles (3,0,3)(L)

Students are introduced to the history, theory, and principles of wildlife conservation and management, with an emphasis on the scientific underpinnings of current conservation biology and wildlife management. Topics include island biogeography and reserve design, population viability analysis, principles of conservation genetics, introduced species, fragmentation, habitat loss, and the demography and extinction risk of small populations.

Prerequisite: BIOL 3030 and one of NRSC 3000, BIOL 2250, BIOL 4270

Required Lab: NRSC 4040L

NRSC 4050 3 credits

Wildlife Management and Conservation 2: Practice and Application (3,0,3)

Students build upon the theory and principles presented in NRSC 4040: Wildlife Management and Conservation 1, by further examining the application of scientific principles to the conservation of wildlife. Students also focus on the philosophy and human dimensions of wildlife conservation and management, particularly the need to balance multiple values in developing sustainable management planning. The course provides for the analysis and discussion of local and global case studies.

Prerequisite: BIOL 3000 and NRSC 4040

Required Seminar: NRSC 4100S

NRSC 4100 3 credits

Fisheries Management (3,2,0)

This course is a study of fisheries management topics, including methods of quantitative stock assessment, fisheries regulations and policy, habitat restoration, and fish stocking. Students collect and measure fish in a local lake, and produce a quantitative stock assessment report for that fishery.

Prerequisite: NRSC 3170 and NRSC 3260

Required Seminar: NRSC 4100S

NRSC 4110 3 credits

Watershed Management (3,2,0)

Students are introduced to the basic principles of wildland hydrology and watershed management, including the role of climate, physiography, and vegetation in watershed function; the effects of land use on streamflow quantity, timing and water quality; and the techniques used in monitoring and assessing the impacts of land management on the water resource.

Prerequisite: FRST 2000/2100/2200

Required Seminar: NRSC 4110S

NRSC 4130 3 credits

Fire Ecology and Management (3,2,0)

Students develop a solid understanding of the importance of fire to ecosystems, communities, species, and human society. The first part of the course is devoted to understanding fire and how it interacts with the abiotic and biotic environment. Next, the focus shifts to the importance of fire from a historical, social, and political context.

Students explore the theory, principles, tools, and organization of fire management, particularly as it applies to British Columbia and other regions of Canada. The main goal of this course is to increase awareness of the role of fire in ecosystems.

Prerequisite: NRSC 2100 or permission of the instructor

Required Seminar: NRSC 4130S

NRSC 4140 3 credits

Natural Resource Policy and Planning (3,2,0)

Students focus on land and resource use policies and laws, and their development and administration in British Columbia, particularly as affected by aboriginal rights and title. The course provides an overview of specific land and resource policies in British Columbia, illustrates the policy cycle through teaching the fundamentals of strategic land and resource use planning, and introduces the practice of policy analysis.

Prerequisite: 3rd year standing in the Bachelor of Natural Resource Science program, or permission of the instructor

Required Seminar: NRSC 4140S

NRSC 4210 3 credits

Conflict Resolution in the Natural Resources (2,2,0)

This course is an exploration of the principles of conflict and conflict resolution as they are used and applied in natural resource management. Topics include a definition of conflict, how conflict arises, and how consensus is achieved by facilitation, interest-based negotiation, and mediation. Emphasis is placed on moving beyond simple problem-solving to the actual resolution of underlying conflicts and issues, such as shifting from positional to interest-based arguments. Reviews of past, current, and emerging conflicts in the natural resource sector are also incorporated. Students participate in role-playing exercises, and learn from one another as they enact mock conflict situations.

Prerequisite: 4th year standing in the Bachelor or Natural Resource Science program or permission of the instructor

Required Seminar: NRSC 4210S

NRSC 4230 3 credits

Graduating Essay (3,0,0)

Students complete an essay or technical report under the direction of a faculty member. The essay can take the form of a scientific paper or a detailed literature review of a selected subject area appropriate for the Bachelor of Natural Resource Science degree program. With permission of the Department one year prior to enrolling in the course, students may use data from personal research. Students are required to make an oral presentation summarizing the project.

Prerequisite: Final year in the BNRS program

NRSC 4240 3 credits

Research Design, Analysis and Reporting (3,0,2)

This course is designed for students in science, although non-science majors may take the course under special permission from the instructor. The course allows senior students to advance their understanding of the basic principles of conducting research, from the initial design of the project, through data collection and analysis, and into the final presentation of the results. Topics covered in lecture and seminar include scientific hypothesis testing, pre- and post-hoc power analysis, statistical design, pseudoreplication, modelling, data coding and entry, logistical constraints to research, and graphical presentation of data. A cursory introduction also is provided to more advanced statistical methods that students may encounter if they pursue a career in research, such as power-analysis, multi-variate statistical analysis, logistic regression, survival analysis, and Bayesian statistics. In the laboratory, students learn to use various types of software, including modelling, statistical analysis, and graphing packages. Students also become familiar with the process of scientific peer-review, through the submission of a research paper to a mock 'journal office'.

Prerequisite: C+ or higher in BIOL 3000 or an equivalent statistical course. A basic competency in statistics and the use of computers is assumed. NRSC 4240 is open to senior undergraduates (3rd or 4th year standing) in the Faculty of Science. Senior undergraduates outside of the Faculty of Science may also be admitted to the course upon direct permission from the instructor.

Required Lab: NRSC 4240L

NRSC 4250 3 or 6 credits

Tropical Field Studies in Natural Resources (3,3,30)(L)

Students are introduced to the issues, approaches, and people involved with natural resource management in a tropical country. The topics in the course depend on the specific destination, but generally include an examination of the ecological, social, economic and cultural aspects of natural

resource management in the tropics. The scheduling and duration (and hence credit allotment) also varies with destination. Enrollment in this course is not restricted to students in the Natural Resource Science department; rather, a diverse study body is desirable, and students from a variety of programs and disciplines are admissible. The size of the class is limited; potential students must submit an application in which they explain the relevance of the course to their own studies and interests. It is the responsibility of all students to consult with their program advisor(s) to determine whether they may receive credit for this course. For details on the current offering of the course, including current destination, content, cost, and application procedure, students should contact the instructor by going through the Department of Natural Resource Sciences at TRU.

Prerequisite: Preferably 3rd or 4th year standing in a relevant degree program at TRU or elsewhere; other students may be admitted depending upon qualifications and demand

NRSC 4300 3 credits

Ecosystem Reclamation (3,2,0)

This course will focus on reclamation and restoration of aquatic and terrestrial systems. Case studies from different disturbance types (mining, oil and gas, forestry, agriculture etc.) will be used to build a basic understanding of how to develop a reclamation/restoration plan from start to finish. Students will complete a detailed reclamation/restoration plan on a topic of their choice.

Prerequisite: NRSC 2100 or BIOL 2170 and NRSC 3260 or BIOL 4020 or permission of instructor

NRSC 4480 3 credits

Directed Studies in Natural Resource Science (3,0,0)

Students are provided with the opportunity to work on a specific project under the supervision of a faculty member in the Department of Natural Resource Sciences. Projects may involve field and/or laboratory research, or may be purely literature based. Normally the subject of the project will fall under the expertise of the faculty member, and will lead to a written paper. Under prior arrangement, a student may conduct research outside of the academic year and later complete the analysis and writing. The course differs from NRSC 4990 in that the scope of the project generally is more modest than an honours thesis; for example, students may work with existing data sets provided they are making a significant contribution to the final product.

Prerequisite: Normally 3rd or 4th year standing, although exceptions may be possible, and the agreement of a faculty member to supervise the project. An appropriate course background is required, depending on the project topic.

NRSC 4980 2 credits

Honours Seminar (0,2*,0)(0,2*,0)

Honours students are provided with constructive criticism of their thesis research project, in addition to an opportunity to explore and discuss topics of relevance to the field of natural resource science. The seminars consist of readings, group discussions, and alternating seminar presentations by students and interested faculty. Students register in this course in both the Fall and Winter terms of their last academic year of study.

Prerequisite: 4th year standing in the Bachelor of Natural Resource Science (BNRS) Honours degree program | Corequisite: NRSC 4990

*Denotes seminars run alternate weeks

NRSC 4990 6 credits

Honours Thesis

This course requires an original research project conducted by students in the Honours Program of the Bachelor of Natural Resource Science (BNRS) degree. It is completed under the direction of a faculty member in the Department of Natural Resource Sciences, or a scientist from outside the department. Students accepted into the BNRS Honours Program register in this course in both the Fall and Winter semesters of their final academic year.

Prerequisite: 4th year standing in the BNRS Honours program

Corequisite: NRSC 4980

NURS 1170 3 credits

Communication and Collaboration 1: Self and Others (0,3,0)

Participants focus on learning about themselves as individuals and on discovering how the unique person that they are influences their relationships with others. Knowledge of self and others aids in the development of a wide repertoire of interpersonal skills that facilitate personal and professional interactions. The course emphasis is on understanding how personal values and beliefs, experiences, perceptions, gender, culture, and hegemony shape themselves, how they establish relationships, and ways of being.

Prerequisite: Acceptance into Year 1 of the BSN program or by special arrangement with instructor

Co-Requisites: NURS 1730 and NURS 1740

Recommended Requisite: NURS 1700

NURS 1700 3 credits

Professionalism and Leadership 1: Introduction to the Profession of Nursing (3,0,0)

This course is an introduction to the profession of nursing. Participants are introduced to the curriculum foundational perspectives and concepts and how these relate to nursing practice. Participants explore nursing history and the evolution of nursing. Participants critically reflect upon role of gender, race, and class in social construction of nursing as a profession. Explore their responsibility for safe and ethical nursing practice

Prerequisite: Acceptance into Year 1 of the BSN program Corequisite: NURS 1170 and BIOL 1592 and NURS 1730 and NURS 1740

NURS 1730 3 credits

Health and Health Promotion 1: Understanding Health (3,0,0)

This course is an introduction to the meaning of health including personal health, family health, community health, and societal health. Participants examine significant theoretical and conceptual frameworks of health including health promotion, primary health care, prevention, and determinants of health. By reflecting on personal experiences, participants have the opportunity to identify personal resources and/or challenges that impact health as well as recognize the diversity of beliefs, values, and perceptions of health held by others. Opportunities to learn basic health assessment skills are included in this course.

Prerequisite: Acceptance into Year 1 or the BSN program

Corequisite: NURS 1170, BIOL 1592, NURS 1700 and NURS 1740

NURS 1740 3 credits

Nursing Practice 1: Introduction to Nursing Practice (3,1,1,2P)

This course is an opportunity for participants to integrate their learning from other Semester One courses with their beginning understanding of nursing practice. Participants are engaged with healthy families in the community and with nurses in practice to explore the breadth of nursing practice.

Prerequisite: Acceptance into Year 1 of the Bachelor of Science Nursing program.

Corequisite: BIOL 1592, NURS 1170, NURS 1700, NURS 1730

NURS 1800 3 credits

Professional Practice 2: Foundation to the Profession of Nursing (3,0,0)

This course is an introduction to the profession of nursing. Participants examine the foundational concepts of the curriculum and how the concepts relate to nursing practice. Participants also explore the history of the profession of nursing and have the opportunity to explore and critically reflect upon the political and socioeconomic forces that have shaped the status of women in society and the evolution of the nursing profession. Standards of nursing practice and responsibility for safe and ethical nursing practice are also explored.

Prerequisite: Acceptance into Year 1 of the Bachelor of Science Nursing program

Corequisite: NURS 1170, NURS 1730, NURS 1740

NURS 1830 3 credits

Health and Health Promotion 2: Health Across the Lifespan (3,0,0)

Building on Health and Health Promotion 1, this course focuses on individual, family, and community health assessment. Participants will have opportunities to explore and critique various theoretical and conceptual frameworks in relation to health assessment including early childhood development, family development, healthy aging and community development. The concept of assessment within the context of decision making is explored. Opportunities to learn basic health assessment skills are included in this course.

Prerequisite: BIOL 1592, NURS 1170, NURS 1700 NURS 1730 and NURS 1740

Corequisite: BIOL 1692, NURS 1800, NURS 1840

NURS 1840 4 credits

Nursing Practice 2: Coming to Know the Client (3,0,2,9P)(L)

This nursing practice experience provides opportunities to develop caring relationships with groups, families, and individuals across the lifespan. Emphasis will be placed on health assessment and coming to know how clients understand and promote their health, and the role of the nurse in collaborating with the

client in this process. Participants work with groups, families and individuals in the home and community, in agencies, and in care facilities to incorporate concepts and learning from all the courses in this semester into their nursing practice.

Prerequisite: BIOL 1592, NURS 1170, NURS 1700, NURS 1730 and NURS 1740

Corequisite: BIOL 1692, NURS 1800 and NURS 1830

NURS 2170 3 credits

Relational Practice 2: Creating Health- Promoting Relationships (3,0,0)

Building on Relational Practice 1, in this course participants move beyond personal discovery to a focus on relational caring. The major emphasis of the course is relational practice with individuals, families, and groups from diverse backgrounds of age, culture, and experience. This is an experiential course designed to deepen the participant's understanding of caring and how the connection between caring and relationship provides the context for health and healing. Participants explore theories and processes of caring, relational identity development of self as nurse, and relational practice as enacted across a range of settings and contexts.

Prerequisite: NURS 1800, NURS 1830, NURS 1840

Corequisite: HLSC 2550, NURS 2730, NURS 2740

NURS 2380 4 credits

Consolidated Practice Experience 2 (0,0,36P)(5 weeks)

In this consolidated practice experience, opportunities are provided to develop caring relationships for the purpose of healing and health promotion with individuals and families experiencing increasingly complex chronic and episodic health challenges. The community and society are considered as contextual influences on the promotion of health for the individual and the family. Participants have opportunities to consolidate learning from the first and second year of the program in a variety of settings.

Prerequisite: NURS 2830, NURS 2840, HLSC 2650, HLSC 2660

NURS 2730 3 credits

Health and Healing 3: Health Challenges/Healing Initiatives (3,0,0)

Building on the learner's understanding of health, the focus of this course is on the people's experience with healing for both chronic and episodic health challenges. Participants integrate theory and concepts of health as they relate to healing. This course is complimentary to Health Sciences 3 and provides opportunities for learners to integrate pathophysiology with their understanding of health and healing and the nursing approaches that accompany this understanding.

Prerequisite: Completion of Year 1

Corequisite: HLSC 2550, NURS 2170, NURS 2740

NURS 2740 4 credits

Nursing Practice 3: Promoting Health and Healing (2,0,2,13P)(L)

This nursing practice experience provides opportunities to develop caring relationships with individuals and families for the purpose of health promotion while coming to understand their unique health and healing processes. Participants will have opportunities to practice nursing approaches that accompany this understanding. Participants work with families and individuals experiencing common health challenges (both episodic and chronic) in the home and community, in agencies, and in care facilities to incorporate concepts and learning from all the courses in this semester into their nursing practice. The community and society are considered as contextual influences on the promotion of health and healing for the individual.

Prerequisite: Completion of Year 1

Corequisite: HLSC 2550, NURS 2170, NURS 2730

NURS 2830 3 credits

Health and Healing 4: Health Challenges/Healing Initiatives (3,0,0)

Participants in this course continue to develop an understanding of people's experience with healing related to a variety of increasingly complex chronic and episodic health challenges within a variety of practice contexts. This course is complementary to Health Sciences 4 and provides opportunities for learners to integrate pathophysiology with their understanding of health and healing and the nursing approaches that accompany this understanding.

Prerequisite: HLSC 2550, NURS 2170, NURS 2730 and NURS 2740

Corequisite: HLSC 2650, NURS 2840

NURS 2840 4 credits

Nursing Practice 4: Promoting Health and Healing (2,0,2,13P)(L)

Learners continue to develop caring relationships with individuals and families for the purpose of health promotion, while coming to understand the individual health and healing processes that coincide with more complex health challenges, both episodic and chronic.

To incorporate concepts and learning into their nursing practice, participants practice nursing approaches that accompany this understanding while working with families and individuals in the home, community, agencies, and care facilities. The community and society are considered as contextual influences on the promotion of health for the individual and the family.

Prerequisite: HLSC 2550, NURS 2170, NURS 2730, NURS 2740

Corequisite: HLSC 2650, NURS 2830

Lab Required: NURS 2840L

NURS 3170 3 credits

Relational Practice: Connecting Across Differences (3,0,0)

Building on the concepts introduced in Relational Practice 1 and 2, and other previous courses, students are provided a synthesis of knowledge that is the basis of critical analysis. This course focuses on enhancing participants' everyday relational practice with individuals, families, and groups. Engaging with the complexities of difference in everyday nursing practice and the challenges these complexities might pose for being in-relation with clients is emphasized.

Prerequisite: HLSC 2550, HLSC 2650, HLSC 2660, NURS 2170, NURS 2380, NURS 2730, NURS 2740, NURS 2830, NURS 2840, PHIL 2310

Corequisite: HLSC 3550, NURS 3730, NURS 3740

NURS 3360 4 credits

Consolidated Field School Experience: Focus on Aboriginal Health (0,3,33P)

This experience is designed to provide opportunities for participants to integrate their learning from previous semesters. Students advance their understanding of Aboriginal culture and health and advance their clinical decision-making skills through experiential learning within an Aboriginal community. Concepts that provide the framework of the course advance students' understandings of historical, socioeconomic and political inequities associated with difference, and learning experiences assist students in developing competencies that meet the health needs of Aboriginal Peoples. Participants travel to a selected Aboriginal community to practice nursing in a variety of settings, including caring for individuals or families, and community or public health.

Prerequisite: NURS 3500 and NURS 3510

Note: Students can only receive credit for NURS 3360, NURS 3380 or NURS 3390.

NURS 3380 4 credits

Consolidated Practice Experience 3 (0,3,33P)(7 weeks)

This experience is designed to provide opportunities for participants to integrate learning from previous semesters, and to advance their clinical decision-making in episodic or chronic care facilities.

Prerequisite: NURS 3500/3510

NURS 3390 4 credits

Consolidated Practice Experience: Focus on International Nursing (0,3,33P)(7 weeks)

This experience is designed to provide opportunities for participants to integrate their learning from previous semesters and to advance their clinical practice in an international nursing context. Participants travel to a selected international site to practice nursing in a variety of settings which may include acute care, community and primary care settings.

Prerequisite: NURS 3500, NURS 3510

Note: This course may be taken in lieu of NURS 3380

NURS 3500 3 credits

Health 4: Health Promotion and Community Development (0,3,0)

This course focuses on community as client from a health promotion perspective. The underlying principles of health promotion, including the social determinants of health, participation, capacity, and empowerment, are emphasized. Community development as a pattern of community health promotion practice is explored.

Prerequisite: NURS 3170 or RN Diploma

NURS 3510 4 credits

Nursing Practice 6 (0,3,6P)

The content and the application of concepts in this course focus on the role of the nurse in the promotion of community and societal health. This course is intended to be a companion course to NURS 3510. In seminar discussion and in practice settings, students apply concepts such as community development, capacity building, and emancipatory teaching and learning. The political and advocacy role of the nurse is also explored, as an emphasis is placed on applying the concepts of social justice and equity. Students also continue to develop their competencies in relational practice with a focus on community and society as client.

Prerequisite: NURS 3170 or Registered Nurse (RN) diploma

Corequisite: NURS 3500

Required Seminar: NURS 3510S

NURS 3600 3 credits

Professional Practice: Nursing Research (3,0,0)

Building on professional practice 1 and 2, the intent of this course is to enhance participants' understanding of nursing scholarship in relation to professional practice. Students engage in opportunities to enhance their understanding and ability to comprehend, critique and utilize nursing research. Participants critically reflect on various scholarly works and research methodologies. Participants critically examine their practice in relation to nursing research and to pose research questions for evidence-informed practice.

Prerequisite: NURS 3740 or RN diploma

Corequisite: NURS 3500, NURS 3510

NURS 3730 3 credits

Health and Healing 5: Complex Health Challenges/Healing Initiatives (3,0,0)

This course builds on Health and Healing 1 and 2 and Health Sciences 3 and 4 and provides opportunities for participants to build on their nursing knowledge and understanding of health and healing in relation to complex episodic and chronic health challenges. This advanced course will focus on current topics and emerging knowledge related to a variety of health care contexts.

Prerequisite: Completion of Year 2 BSN program

Corequisite: HLSC 3550, NURS 3170, NURS 3740

NURS 3740 4 credits

Nursing Practice 5: Promoting Health and Healing (2,0,2,13P)(L)

This experience provides continued opportunities for learners to develop caring relationships with individuals and families while coming to understand health and healing processes. Participants have opportunities to practice nursing approaches that accompany this understanding. Participants work with families and individuals in the home and community, in agencies, and in care facilities to incorporate concepts and learning from all the courses in this semester into their nursing practice.

Prerequisite: Completion of Year 2 of BSN program

Corequisite: HLSC 3550, NURS 3170, NURS 3730

Required Lab: NURS 3740L

NURS 3850 3 credits

Field Course in Global Health Development (3,3,18P)

This course focuses on health development with a special emphasis on understanding cultural, social, economic, and political environments and their impact on health in a foreign country. Participants integrate global health and community development perspectives in an international nursing context. During a pre-departure week, the course participants attend several lectures that provide information about the country where the field school is located, theory on health development work and related project information. Participants travel to the chosen country and engage in health development projects for a two week period, drawing on principles of community development.

Prerequisite: NURS 3500, NURS 3510, NURS 3810, Special request for students in the Post Diploma BScN program or Permission of the instructor.

Required Seminar: NURS 3850S

NURS 4210 10 credits

Nursing Practice 8: Transitioning to BSN Graduate (0,3,36P)

This nursing practice experience provides opportunities for students to consolidate their learning and prepare for assuming the role of BSN graduate. Students also explore and critique changes and issues in the health care system, and the workplace, that affect nurses. Students develop their nursing competencies and enhance their nursing knowledge so that they may practice in a variety of settings at a novice level. Students may choose to focus their practice within a specific area, for example, a particular setting of practice, a certain client population, or a specific health challenge.

Prerequisite: NURS 4300, NURS 4380, NURS 4730

NURS 4300 3 credits

Health/Professional Growth: Nurses Influencing Change (3,0,0)

This course explores the avenues for nurses to provide leadership, influence, create and manage change for the promotion of health for individuals, families, groups and communities within the context of society and the world. Emphasis is placed on the leadership roles of the nurse within practice contexts. The role of the nurse within the current and evolving Canadian health care system is analyzed, including considerations of the impact of global trends and issues, and issues facing nurses in the current work environment.

Collaborative and ethical approaches for working within institutional philosophies and frameworks are explored.

Prerequisite: NURS 3500, NURS 3510, Registered Nurse diploma or written permission of the Nursing Chair in consultation with the course instructor

Corequisite: NURS 4730

NURS 4380 4 credits

Community Health Nursing: Practice 7 (0,2,14P)(13 weeks)

Seminar and practice experiences provide opportunities for participants to integrate their learning from previous semesters and to advance their knowledge and professional nursing practice in community health nursing. Participants enhance their learning and apply their clinical decision-making skills in a variety of community health nursing practice settings.

Prerequisite: Successful completion of NURS 3380 or NURS 3390 or RN Diploma

Corequisite: NURS 4730

Required Seminar: NURS 4380S

NURS 4730 3 credits

Community Health Nursing: A Canadian Perspective (3,0,0)

This course encompasses theoretical constructs that undergird community health nursing. It is intended to be a companion course for both Professional Practice 5 and Nursing Practice 7. Students integrate learning from previous semesters and knowledge of complex aspects of community health nursing is advanced.

Prerequisite: NURS 3380 or NURS 3390 or RN diploma

Corequisite: NURS 4380

NURS 5100 3 credits

Knowledge for Advanced Nursing (3,0,0)

This course provides an opportunity for students to explore the philosophical (epistemological, ontological and moral) foundations of knowledge for nursing practice. Students will critically analyze the development, organization, and application of nursing knowledge in contemporary practice settings, authenticating the relevance of nursing knowledge to nursing practice as well as within interdisciplinary collaborative healthcare environments. Course emphases are: philosophy of science, knowledge generation, social justice, and critical thinking.

Prerequisite: Admission to Graduate Studies

NURS 6100 3 credits

Directed Studies in Health (0,3,0)

In this course students focus on a specific health topic relevant to their professional-academic goal. The course serves to build the critical knowledge and skills foundational to a graduate thesis or project. The graduate student is expected to clearly identify the topic for their knowledge advancement, method(s) of inquiry, intended course outcomes, course timelines, and evaluation criteria that is reviewed and negotiated with a qualified faculty member.

Prerequisite: NURS 5100, HLTH 5200, HLTH 5300, HLTH 6000

NURS 6200 3 credits

Directed Studies in Nursing Education (0,3,0)

In this course students focus on a topic specific to nursing education relevant to their professional-academic goal. The course serves to build the critical knowledge and skills foundational to a graduate thesis or project. The graduate student is expected to clearly identify the topic for their knowledge advancement, method(s) of inquiry, intended course outcomes, course timelines, and evaluation criteria that is reviewed and negotiated with a qualified faculty member.

Prerequisite: NURS 5100, HLTH 5200, HLTH 5300, HLTH 6000

NURS 6500 6 credits

Advanced Nursing Internship (0,1,0)

The Advanced Nursing Internship is a required nursing elective that offers students the opportunity to undertake a clinical or field placement in a practice context that meets individual interests and learning needs. Students gain hands-on experience and skills through applying theoretical knowledge from core and elective courses at an advanced level of nursing. Students are supported by the guidance and supervision of an on-site mentor as well as TRU faculty and seminars. Practice settings may include direct clinical practice, a health policy development setting, a research unit, an educational setting, or other setting as determined by individual focus area.

Prerequisite: NURS 5100, HLTH 5200, HLTH 5300 and HLTH 6000 recommended

NURS 6600 6 credits

MN Major Project (0,6,0)

Students will have an opportunity to engage in focused study in a specific area of advanced nursing practice, policy, education, or research leading to an original major project in consultation with the faculty supervisor and placement or work setting where the project will be completed. The project identified will be determined by an identified needs or gap analysis

in the literature or health care system and will have to meet educational and learning objective for the MN program.

Prerequisite: NURS 5100, HLTH 5200, HLTH 5300, HLTH 6000, NURS 6100 or NURS 6200, HLTH 6300. Recommended - 12 credits of electives.

NURS 6700 6 credits

Knowledge Integration, Application, and Dissemination: Major Paper (0,6,0)

Students in the Major Paper Option in the MN program will be required to prepare and make public a comprehensive paper that demonstrates their ability identify an emerging nursing issue, prepare a substantive and integrative review of literature, recommend and substantiate best practices, and engage in one of diverse forms of professional dissemination.

Prerequisite: NURS 5100, HLTH 5200, HLTH 5300, HLTH 6000, NURS 6100 or 6200, HLTH 6300. Recommended - 12 credits of electives.

NURS 6800 12 credits

Graduate Thesis (0,12,0)

Students in the Master's Thesis Option in the MN degree program will prepare and defend a thesis in accordance with the policies established by the Research, Innovation, and Graduate Studies Office. A thesis is completed under the direction of a faculty member and a Thesis Supervisory Committee and evaluated by a Thesis Defence/Examining committee.

Prerequisite: NURS 5100, HLTH 5200, HLTH 5300, HLTH 6000, NURS 6100 or NURS 6200, HLTH 6300 and 6 credits of electives

OAAC 1000

Introduction to Bookkeeping (43 hours)

This course gives the student a grounding in double-entry accounting theory and an introduction to bookkeeping methods and related clerical procedures, such as petty cash and banking procedures. Introduction to Bookkeeping is designed as a hands-on course.

OAAC 2560

Computerized Accounting - SIMPLY (36 hours)

This course familiarizes the students with ACCPAC Simply Accounting which is a completely integrated accounting software package particularly suitable for the small business. Students will set up the accounting records and complete a variety of transactions (G/L, receivables, payables, payroll, inventory) in two simulations. Statements will be electronically transferred to a spreadsheet for further processing.

Prerequisite: ACCT 1000, OAAS 3100 and OADS 1000

OEED 4150 3 credits

Outdoor and Experiential Education Concepts (3,0,0)

This course is a study of outdoor and experiential education concepts, and develops a common foundation of outdoor and experiential education understanding. Students explore outdoor and experiential instructional techniques and how learners form their personal identity, values, beliefs, feelings, and attitudes. Course content includes outdoor experiential education definitions, goals, fields of study, history, theory, and future trends.

Prerequisite: 3rd year standing or permission of the instructor

OEED 4200 3 credits

Outdoor and Experiental Education Program Development, Design and Delivery (3,0,0)

In this course, students explore the elements of outdoor and experiential education program development, design and delivery. The course focus is on the creation of experiential learning opportunities in the outdoor environment and the facilitator's role in program delivery.

Prerequisite: 3rd year standing or permission of the instructor

OEED 4250 3 credits

Outdoor Leadership 1 (3,0,0)

This course explores the elements of outdoor and experiential education leadership. Students focus on the safe and effective leading of outdoor and experiential day- and multi-day programs. Effective leadership skills and the development of experiential facilitation and instructional techniques are studied in a practical field-trip setting.

Prerequisite: 3rd year standing or permission of the instructor

OEED 4300 3 credits

Outdoor Education Legal Liability and Risk Management (3,0,0)

This course provides a background in the legal and risk management elements specific to outdoor and experiential education disciplines. Course content includes education and custodial group standards of care; the legal system and outdoor education; contemporary legal issues in outdoor education; public and parental perception and understanding; the law and custodial care groups; standards of care in outdoor education; accident review process; risk management; and land access issues. Students also discuss case studies.

Prerequisite: 3rd year standing or permission of the instructor

OEED 4450 3 credits

Environmental Interpretation and Natural History (60 hours)

This course provides a base of knowledge about the natural history of Western Canada and its interpretation. Course experiences expose students to the natural communities within British Columbia with the intent of, as Aldo Leopold suggests, allowing us to see that the land is a community to which we belong and more than just a commodity or nice backdrop. Emphasis is placed upon the creation of experiential interpretive interactions.

Prerequisite: 3rd year standing or permission of the instructor

OEED 4460 3 credits

Outdoor Fine Arts (60 hours)

This course explores the elements of fine arts in the outdoors, and its use in experiential education. Students focus on the development of creative and applied arts, including sculpture, music, drama, drawing, paints, photography, and alternative arts in experiential settings and delivery formats. The use of natural materials and resources is emphasized.

Prerequisite: 3rd year standing or permission of the instructor

OEED 4470 3 credits

Initiative and Challenge Games (60 hours)

This course explores use of initiative and challenge games in outdoor and experiential education. Students focus on the creation of experiential learning and group cohesion through the use of team building activities, ropes courses, icebreakers, group activities, games and trust activities.

Prerequisite: 3rd year standing or permission of the instructor

OEED 4480 3 credits

Wilderness Travel and Navigation (60 hours)

In this course, students explore the theoretical and practical aspects of wilderness travel and navigation. Theoretical topics include appropriate clothing and equipment, navigation, environmental considerations, travel techniques, route plans, and trip planning. The course includes a backpack trip that focuses on navigation, route selection, group management, and pacing, minimum impact camping and hazard awareness.

Prerequisite: 3rd year standing or permission of the instructor

OEED 4490 3 credits

Winter Backcountry Travel (60 hours)

In this course, students explore the theoretical and practical aspects of winter backcountry travel. Theoretical topics include appropriate clothing and equipment, navigation, environmental considerations, travel techniques, route plans, and trip planning. The course includes a winter snowshoe and skiing trip that focuses on winter camping skills, winter travel skills, navigation, route selection, group management, pacing, minimum impact camping, and hazard awareness.

Prerequisite: 3rd year standing or permission of the instructor

OEED 4500 3 credits

Flat Water Canoe Tripping (60 hours)

In this course, students explore the theoretical and practical aspects of flatwater canoe tripping. The course includes the CRCA (Canadian Recreational Canoeing Association) Flatwater Instructor certification. Theoretical topics include appropriate canoe clothing and equipment, navigation, environmental considerations, flatwater travel techniques, route plans, and trip planning. The course includes a flatwater canoe trip that focuses on canoeing skills, travel skills, navigation, route selection, group management, minimum impact camping and hazard awareness.

Prerequisite: 3rd year standing or permission of the instructor

OEED 4510 3 credits

Top-Rope Rock Climbing Management (60 hours)

The intent of this course is to develop safe managers of top rope rock climbing sites aimed at school and custodial group leaders: a high level of climbing ability and lead climbing is not required. Topics include rock climbing clothing and equipment, environmental considerations, top rope rock climbing technique, belayed rappels, top rope rock climbing site selection, group management, hazard awareness, terrain, and safety guidelines.

Prerequisite: 3rd year standing or permission of the instructor

OEED 4520 3 credits
Avalanche Skills Training (60 hours)
This course introduces avalanche concepts and develops awareness in backcountry travellers. Topics include how to recognize avalanche terrain, how to avoid avalanche terrain, how to recognize dangerous conditions, how to minimize risk, and how to manage a self rescue. This course meets the standards developed by the Canadian Avalanche Association for Avalanche Skills Training Level 1 and 2.

Prerequisite: 3rd year standing or permission of the instructor

OEED 4530 3 credits
Elective Activity (60 hours)
As approved by the Adventure Studies Department Chairperson, students may receive credit for participation in additional adventure activity courses not taught within the Post-Graduate Certificate in Outdoor and Experiential Education. Courses must be from recognized training programs to receive consideration.

Prerequisite: 3rd year standing and approval of the Adventure Studies Department Chairperson

ORGB 2810 3 credits
Organizational Behaviour (3,0,0)
Students examine the behavior of individuals and how they interact with each other in different workplace organizations. Topics include defining organizational behavior; perception, personality and emotions; values, attitudes and their effects in the workplace; motivating self and others; working in teams; communication, conflict and negotiation; power and politics; leadership; decision making, creativity and ethics; and organizational culture and change.

Prerequisite: ENGL 1100

Note: Students cannot receive credit for more than one of ORGB 2811, BBUS 2720, BBUS 2721, TMGT 1160

ORGB 3750 3 credits
Creativity and Innovation (3,0,0)
Students explore the theory and practical strategies for promoting creative and innovative thinking in the workplace and managing employees through these processes. Topics include types of innovation, the S-shaped diffusion curve, generating new ideas, recognizing opportunities, moving innovations to the market, creative groups, enhancing creativity, and leading creativity.

Prerequisite: CMNS 1290; ORGB 2810

ORGB 3770 3 credits
Teamwork in Organizations (3,0,0)
Students develop an understanding of the nature, design and processes of effective teamwork as well as a practical skill set for team membership. Topics include the importance of teams; assessing a team's experience and insights; building a balanced team; building a high performance team; becoming a team member, follower, and leader; team building; team evaluation and accountability; observing team leadership skills at work; identifying and overcoming team dysfunctions; motivating team members and leaders; and developing intercultural teams.

Prerequisite: CMNS 1290; ORGB 2810

Note: Students cannot receive credit for both BBUS 3880 or ORGB 3770

ORGB 3810 3 credits
Organizational Theory and Design (3,0,0)
Students explore the theory and application of organizing in complex workplace environments. Various conceptual tools and theoretical frameworks are utilized to systematically investigate organizing processes and contexts and solve practical problems. Topics include organizations and organization theory; organizational stakeholders; the external environment; organizational structure and design; organizational culture; decision making; conflict, power and politics; and organizational change and transformation.

Prerequisite: CMNS 1290; ORGB 2810

Note: Students cannot receive credit for more than one of ORGB 3811 and ORGB 3810

ORGB 4870 3 credits
Organizational Development and Change (3,0,0)
In today's business environment, a human resource practitioner must be a skilled change manager. Students learn to become agents for change, to improve human resources and organizational effectiveness, and to increase productivity.

Topics include an introduction to organizational development; change process; organizational change and human resource management; organizational assessments; assessment tools and techniques; organizational interventions; human resource management interventions; and human resource metrics.

Prerequisite: ORGB 3810

Note: Students cannot receive credit for more than one of BBUS 4870, BBUS 4661, ORGB 4871

PHED 1000 3 credits
Biomechanics: The Analysis of Performance in Individual Sports (3,1,0)
This course is an examination of the role of analysis in developing effective biomechanically correct individual sport performance. Skill analysis, error detection, error correction, and the application of sport science principles are included with an introduction to the appreciation of movement patterns in sport.

PHED 1100 3 credits
Basketball (1,2,0)
This course focuses on industrial and coaching techniques associated with the sport. The development of fundamental individual and team skills are an integral part of the course. Offensive and defensive skills and strategies are also central to the course. Each student is provided an opportunity to learn how to instruct and coach other students in the skills, as well as learn the specific skills related to basketball.

PHED 1120 3 credits
Outdoor Activities (3,0,0)
Students are introduced to a variety of outdoor pursuits like cross country skiing, kayaking, hiking, survival and snowshoeing. Due to the varying levels of risk associated with outdoor activities, participants are required to sign the Department of Physical Educations' informed consent.

Note: Students are responsible for providing their own transportation, equipment, and additional costs associated with the activities

PHED 1140 3 credits
Aquatics (3,0,0)
This course emphasizes the knowledge and skills associated with aquatic activity. Water safety, principles of buoyancy and water activities, stroke analysis and development are a major focus for the semester. Students are provided an opportunity to work toward a number of senior swimming levels.

Note: It is recommended that students enrolling in this course be able to swim 200 meters

PHED 1160 3 credits
Soccer (3,0,0)
This course focuses on instructional and coaching techniques associated with soccer. The development of fundamental individual and team skills are an integral part of the course. Offensive and defensive skills and strategies are central to the course. Each student is provided an opportunity to learn how to instruct/coach other students in the skills as well as learn the specific skills related to soccer.

PHED 1190 3 credits
Volleyball (3,0,0)
This course focuses on instructional and coaching techniques associated with volleyball. The development of fundamental individual and team skills are an integral part of the course. Offensive and defensive skills and strategies are central to the course. Each student is provided an opportunity to learn how to instruct/coach other students in the skills as well as learn the specific skills related to volleyball.

PHED 1230 3 credits
Conditioning (3,0,0)
Students are instructed in the basic principles for health and skill-related fitness. The course provides a basic understanding of the physiological basis for conditioning programs applicable to competitive sport. A discussion of fitness assessment is also a focus in this course.

PHED 1240 3 credits
Golf (3,0,0)
This course focuses on instructional and coaching techniques associated with the sport. The development and analysis of fundamental individual skills is an integral part of the course. Each student is provided an opportunity to learn how to instruct and coach other students in the skills, as well as learn the specific skills related to golf.

Note: Students are responsible for their own transportation and equipment and extra costs are associated with this course

PHED 1280 3 credits
Games, Contests and Relays (3,0,0)
Individual, pairs, teams and group activities are taught in this course. Each student is required to invent and teach an activity, with the focus on teaching, and consider strategies to make incremental and rule changes for each. This course is an excellent preparation for students wishing to become teachers and recreationalists.

PHED 2000 3 credits
Analysis of Performance of Team Activities & Sports From Pedagogical & Coaching Perspectives (3,1,0)
This course includes an examination and introduction

of the structure, analysis and instruction of team activities, games and performance. Selected team sports are used as models of analysis. Topics include the study of the common elements in team sports, pedagogical theories on instruction of games, and an examination of analysis methods and procedures.

PHED 2110 3 credits

An Introduction to the Study of Sport (3,0,0)

This course examines the nature and development of sport through an analysis of historical, academic and popular literature.

PHED 2130 3 credits

Sport in Canadian Society (3,0,0)

This course offers a historical and theoretical analysis of sport in Canadian Society. Students develop an awareness of the role played by physical education and sport in society, and examine the societal changes that influence sport development.

PHED 2140 3 credits

Psychology of Sport and Physical Activity (3,0,0)

Students discuss psychological theories and research related to sport and health-related physical activity. Topics include socialization for participation, motivation, stress, psychological limits, aggression, competition and co-operation, audience effects, leadership, role of the coach and group cohesion, ethical behaviours, motivation, and aspirations.

Prerequisite: 2nd year standing

PHED 2150 3 credits

Exercise Physiology (2,0,2)(L)

Students are introduced to the basic components of physiology as they apply to health, fitness and exercise. An examination of the acute and chronic effects of physical activity on the functions of the human body (metabolic, cardiovascular, respiratory, muscular) through lecture and laboratory experiences is emphasized.

Prerequisite: BIOL 1690 or permission from the instructor

PHED 2210 3 credits

The Dynamics of Motor Skill Acquisition (3,0,0)

This course provides an introduction to the examination of motor skill acquisition and the variables which influence the learning and performance of motor skills. Theoretical models on motor learning are introduced and discussed from a pedagogical perspective.

PHED 2840 3 credits

Physical Growth and Motor Development (3,0,0)

Students will examine the physical growth and motor development throughout the lifespan, with particular reference to the effects of physical activity on growth, development and health. Developmental differences in motor ability will be studied.

Prerequisite: PHED 2210

PHED 3000 3 credits

Service and Learning Project (3,0,0)

This course provides Physical Education Teacher Candidates with an orientation to physical education in elementary schools, and an opportunity to link on-campus instruction with teaching experiences in the school setting.

Prerequisite: Acceptance into the Bachelor of Education Elementary - Specialization in Physical Education program

PHED 3450 3 credits

Contemporary Issues in Health and Physical Activity (3,0,0)

This course helps identify and address contemporary lifestyles, associated behaviours, and major health concerns in present-day society. Techniques and strategies used to make positive lifestyle changes are studied and discussed in addition to the responsibility of the consumer.

PHED 3650 3 credits

Coaching Pre-Adolescent Students (1,2,0)

This course provides practical and theoretical experience in dealing with pre-adolescent students in the school sports setting.

The course incorporates 1 hour per week of classroom teaching with 2 hours per week of practical coaching in elementary schools, or similar sport settings.

Prerequisite: PHED 2000

Corequisite: PHED 3840

PHED 3660 3 credits

Advanced Movement Education (3,0,0)

Students explore human movement from a broad range of perspectives. Educational gymnastics, dance, movement, and games are analyzed from a multi-disciplinary approach with regard to instruction to school-aged children.

Prerequisite: PHED 1000, or permission from the instructor

PHED 3840 3 credits

Physical Growth and Motor Development (3,0,0)

Students examine the physical growth and motor development throughout the lifespan, with particular reference to the effects of physical activity on growth, development and health. Developmental differences in motor ability are studied.

Prerequisite: PHED 2210

Students: Cannot receive credit for both PHED 2840 and PHED 3840

PHED 4350 3 credits

Fitness Assessment and Exercise Prescription (3,0,0)

The emphasis of this course is on exercise prescription and testing, for the healthy adult population and for special populations or persons with a disability. Students' laboratory work is focused primarily on the exercise testing aspect of the course.

Prerequisite: PHED 1230 and PHED 2150

PHIL 1010 3 credits

Introduction to Philosophy: Great Thinkers: Ancient to Enlightenment (3,0,0)

This course is a general introduction to philosophy using a historical approach. The course covers the period from before Socrates up to and including the French Revolution. Students discuss major philosophers including Plato, Aristotle, Aquinas, Descartes, Hume and Wollstonecraft. Major topics and questions explored in this course include: What is the good life? Does God exist? What is the relationship between mind and body? How is knowledge possible? What is the nature of reality? Are women equal to men in abilities and rights?

PHIL 1020 3 credits

Introduction to Philosophy: Great Thinkers: Enlightenment to Modern (3,0,0)

This course is a general introduction to philosophy which spans the Enlightenment to present day time period. The major philosophers discussed in this course include Kant, Marx, Darwin, Mill, Nietzsche and Sartre. The major topics explored include: Is there progress in history? What are the origins of our moral ideas? What rights do individuals have? Does life have meaning?

PHIL 1100 3 credits

Introduction to Philosophy: Problem and Themes (3,0,0)

This course is a general introduction to philosophy. Questions that are typically discussed include: What is morality? Is there a God? Is there life after death? What can we know and how can we know it? What is the nature of reality? Is there free will? Are there fundamental rights? What constitutes a 'good life'? What is the nature of society? What form of government should we have? What is the relation of the mind to the body? What is art? Is censorship a good idea? Readings are taken from classic and/or modern texts.

Note: Students may take a maximum of two of PHIL 1010, PHIL 1020 or PHIL 1100

PHIL 1110 3 credits

Introduction to Critical Thinking (3,0,0)

This course enables students to distinguish between good and poor reasoning. Students are introduced to logical analysis, which entails an examination of the meaning of logical terms and an investigation of their contribution to the arguments in which they occur. Considerable attention is given to representing the logical structure of arguments and deciding their validity or invalidity.

PHIL 2010 3 credits

Introduction to Ethics (3,0,0)

Ethics is the philosophical examination of 'the good life', or the kind of life that is most worth living. It is also the study of the values by which we live, and the values of others. Students explore questions of right and wrong (morality), consider the place of morality in life as a whole, and whether life has meaning. In particular, students discuss the nature and origin of morality, and to what extent being moral is necessary to living a good life.

PHIL 2100 3 credits

Introduction to Ancient Philosophy (3,0,0)

Students are introduced to the most important philosophers of the Western ancient world, including Plato and Aristotle, as well as Epicureanism and Stoicism.

PHIL 2140 3 credits

Foundations of Philosophy: Knowledge, Certainty and Skepticism (3,0,0)

Students explore the nature, source and limits of human knowledge. Topics include whether we could be systematically wrong about everything; the influence of will on belief; the difference between

knowledge and mere opinion; and the relation between knowledge, justice and power.

Prerequisite: PHIL 1010, 1020 or 1100 recommended

PHIL 2150 3 credits

Substance, Change, and Identity (3,0,0)

Students consider intriguing questions about what makes up reality and how reality works. Students explore topics that include matter and substance; change and causation; free will and determination; mind and body; being and consciousness; and the nature of time and space.

PHIL 2160 3 credits

Technology and the Environment (3,0,0)

Students examine what 'technology' is, the relationships and differences between technology and nature, and the role that technology plays in current environmental issues. The course raises the question of whether technology can help us find solutions to environmental crises, or if those problems are a direct result of seeing the world from a technological point of view.

PHIL 2210 3 credits

Contemporary Moral Issues (2,1,0)

Students examine contemporary moral issues, such as abortion; euthanasia; capital punishment; environmental ethics; business ethics; pornography and censorship; treatment of the mentally ill; patients' rights; and the ethics of warfare. Classical theories of ethics are examined and applied to contemporary problems.

PHIL 2220 3 credits

Elementary Formal Logic (2,1,0)

This course is an introduction to contemporary symbolic or formal logic. Students explore the fundamentals of good reasoning by learning sentence and predicate logic. Students translate English sentences into logical notation, and use truth tables and derivations to demonstrate the validity of arguments.

PHIL 2240 3 credits

Philosophy of Technology and Society (3,0,0)

The focus of this course is on the philosophical implications of the impact of computers, technology, and the information age on the modern world. Students examine the ethical, metaphysical, epistemological, social, scientific and political intersections of human engagement with technology. Topics may include privacy, intellectual property, encryption, spying, access to information, social media (texting, Facebook, Twitter, etc), and censorship.

PHIL 2290 3 credits

Philosophy of Emotions (3,0,0)

This course examines the role emotions play in our lives and critically examines some traditional beliefs about emotion from the standpoints of philosophy, psychology and sociology. The issues and topics considered in this course include the relation of emotions to reason, the role of feeling in moral judgment, and the relation of emotions to action. Students also consider specific emotions, such as love and anger, as well as looking at emotions from a biological view, as either adaptive responses, or forms of escape.

PHIL 2310 3 credits

Health Care Ethics (3,0,0)

Students examine the ethical role of the health care provider within the Canadian health care system. Students critically assess a selection of ethically problematic situations that routinely challenge health care providers. The topical issues considered in this course include the relationship among health care providers; care of the elderly; genetic counselling; resource allocation; care of those diagnosed mentally ill; and the ethics of transplantation. These issues are explored within the context of moral theory, common ethical principles, and methodologies arising from interdisciplinary bioethics.

Note that students cannot receive credit for both PHIL 2310 and PHIL 2311

PHIL 2380 3 credits

Philosophy and Pop Culture (3,0,0)

Students critically examine various aspects in ethics, metaphysics, epistemology and sociopolitical philosophy using popular cultural elements, including film, television, books, and comics.

PHIL 2390 3 credits

Philosophy of Rock Music (3,0,0)

Students explore issues in the philosophy of art through the medium of rock music. Rock music is discussed from the standpoints of aesthetics, philosophy, sociology and musicology. Students consider the social and artistic value of rock music, the distinctive features of rock music, and the history of rock music.

PHIL 2400 3 credits

Understanding Scientific Reasoning (3,0,0)

This course is a philosophical introduction to evaluating hypotheses, scientific reasoning, and experimental tests. Students consider theoretical hypotheses, statistical and causal hypotheses, the nature of decisions, and the value of scientific reasoning for everyday life.

PHIL 2900 3 credits

*****Topics in Philosophy 2 (2,1,0)**

Students explore a special topic in Philosophy such as an in-depth analysis of an issue, school of thought, or a specific philosopher. Special topics courses may also be an opportunity for students to engage with evolving current issues.The specific topic(s) will be decided by the instructor and approved by the Department.

PHIL 3010 3 credits

Ethics (3,0,0)

Continuing from PHIL 2010 and PHIL 2210, this course is the advanced study of moral theory. Presented for analysis are meta-ethical theories concerning why we are moral beings, and several theories about how we decide what is right and wrong. In deciding good from bad, a number of theories have been established, all of which have something worthwhile to offer. Students investigate theories and philosophers which may include Mill, Kant, contractarianism, feminist ethics of care, relativism, and Aristotelian virtue ethics.

Prerequisite: PHIL 1010 or 1020 or 1100 or 2210 or 2010

PHIL 3140 3 credits

The Rationalists: Descartes, Spinoza, and Leibniz (3,0,0)

This course encompasses the development of Continental European philosophy during the seventeenth century. Students focus on the writings of Descartes, Spinoza and Leibniz, and the influence of religion and science on the philosophical thought of the period.

Prerequisite: PHIL 1010 or 1020 or 1100 and completion of 45 credits or permission of the instructor.

PHIL 3150 3 credits

The Empiricists: Locke, Berkeley, and Hume (3,0,0)

Students explore British philosophy in the seventeenth and eighteenth centuries, with an emphasis on the writings of Locke, Berkeley and Hume.

Prerequisite: PHIL 1010, 1020, or 1100 and completion of 45 credits or permission of the instructor

PHIL 3160 3 credits

Modern European Philosophy (3,0,0)

Students examine many of the significant and formative ideas in nineteenth and twentieth century European philosophy. Areas of emphasis change from year to year and may include existentialism, phenomenology, Marxism, psychoanalysis, critical theory, deconstruction, and post-modernism. Authors studied may include Kierkegaard, Nietzsche, Heidegger, LÃ©vi-Strauss, Sartre, Lacan, Levinas, Adorno, Marcuse, Gadamer, Habermas, Foucault, Althusser, Deleuze, Derrida, Baudrillard, and Lyotard.

Prerequisite: Any one of PHIL 1010, 1020, 1100, and 45 credits in any discipline or permission of the instructor

PHIL 3170 3 credits

*****Topics in Continental Philosophy (3,0,0)**

This course provides an in-depth study of a major philosopher, school, or work within the Continental tradition, and serves to complement PHIL 3160: Modern European Philosophy. Topics change from year to year, and typically include thinkers such as Simone de Beauvoir, Luce Irigaray, G.W.F. Hegel, Martin Heidegger, Michel Foucault and Gilles Deleuze. The related schools and tendencies would include structuralism, deconstruction, feminism, the Frankfurt School and Phenomenology.

Prerequisite: Any one of PHIL 1010, 1020, 1100, and completion of 45 credits (any discipline), or permission of the instructor

PHIL 3210 3 credits

Feminist Philosophy (3,0,0)

A wide range of feminist philosophical thought is examined in this course. Students discuss the feminist approach to philosophical questions, which can differ dramatically from the traditional philosophical approach. Topics may include gender role socialization, sex, gender equality, work and pay, radical feminism, maternal thinking, historical feminist movements, pornography, care, 3rd-wave feminism, mainstreaming pornography, and men's role in feminism.

Prerequisite: Completion of 45 credits (any discipline), or permission of the instructor

PHIL 3220 3 credits
Logic (3,0,0)(L)
Continuing from PHIL 2220, students focus on a system of deduction for predicate logic. Students consider the relation between artificial and natural language, completeness, incompleteness and decidability, and the philosophical problems that arise from the study of reasoning.

Prerequisite: Completion of 45 credits (any discipline), or permission of the instructor.

Note: PHIL 2220 is strongly recommended

PHIL 3300 3 credits
Moral and Political Philosophy (3,0,0)
Continuing from PHIL 2010 and PHIL 2210, students focus on rights and duties, political philosophy, and theories of legal and political obligation. Legal reasoning as it applies to society and the state captures another axis of analysis in this course. Topics may include seminal decisions by the Supreme Court of Canada; punishment; deterrence versus retributivism; justification of law making; majority rule versus minority rights; and human rights.

Prerequisite: Completion of 45 credits (any discipline), or permission of the instructor.

PHIL 3390 3 credits
Philosophy of Art (3,0,0)
Students focus on the arts and their relation to society. Topics may include art and perception, art and reality, imagination, expression, censorship, and the role of art in human life.

Prerequisite: Completion of 45 credits in any discipline or permission of the instructor

PHIL 3490 3 credits
Philosophy of Religion (3,0,0)
This course looks at religious issues from a philosophical perspective. Is there life after death, and what difference does it make whether or not there is one? What reasons can be found for believing (or not believing) that there is a God? Is the existence of God compatible with the existence of evil in the world? What is the relation of faith to knowledge? Are mystical experiences a source of knowledge about the divine? The purpose of the course is not to answer these questions, but to critically assess the arguments put forward in trying to answer them.

Prerequisite: Completion of 45 credits (any discipline), or permission of the instructor.

PHIL 3500 3 credits
Metaphysics (3,0,0)
Continuing from PHIL 2150, this course is the study of the nature of physical reality, substance, primary and secondary qualities, identity over time, change, causation, free will, and time.

Prerequisite: One of 2140 or 2150, and Completion of 45 credits, or permission of the instructor

Note: Students who have taken PHIL 3400 may not receive credit for PHIL 3500

PHIL 3600 3 credits
Knowledge, Power and Credibility (3,0,0)
This course provides an in-depth philosophical study of knowledge. Students explore contemporary theories of knowledge and justification, and investigate the prospects of mainstream theories against the challenges and alternatives. Topics include the evolution of knowledge; feminist challenges to mainstream theories of knowledge; First Nations approaches to knowledge, the politics of credibility; knowledge and injustice, and the role of bias, emotion, and memory in knowledge.

Prerequisite: PHIL 2140 or PHIL 2150 and completion of 45 credits or permission of the instructor

PHIL 3750 3 credits
Philosophy and Literature (3,0,0)
Students examine themes that are common to literature and philosophy in order to explore philosophical questions and problems. The topics and areas of emphasis change from year to year.

Prerequisite: Completion of 45 credits (any discipline), or permission of the instructor.

PHIL 3900 3 credits
*****Topics in Philosophy 3 (2,1,0)**
Students explore a special topic in Philosophy such as an in-depth analysis of an issue, school of thought, or a specific philosopher. Special topics courses may also be an opportunity for students to engage with evolving current issues. The specific topic(s) will be decided by the instructor and approved by the Department.

Prerequisities: Completion of 6 credits of PHIL courses.

PHIL 4160 3 credits
*****Topics in Nineteenth-Century Philosophy (3,0,0)**
This course offers an intensive study of Kant; a major nineteenth century philosopher such as Hegel, Mill or Nietzsche; or of a school of thought, such as German idealism. Topics vary from year to year.

Prerequisite: One of PHIL 1010, 1020, 1100, and completion of 45 credits (any discipline), or permission of the instructor

PHIL 4180 3 credits
*****Topics in Twentieth-Century Philosophy (3,0,0)**
This course offers an intensive study of a major twentieth-century philosopher, such as Husserl, Russell, Wittgenstein, Heidegger, Sartre, or Foucault; or of a school such as phenomenology, logical positivism, or structuralism.

Prerequisite: One of PHIL 1010, 1020, 1100, and completion of 45 credits (any discipline), or permission of the instructor

PHIL 4190 3 credits
Philosophy of History (3,0,0)
This course studies the major philosophical theories of history, from Kant to the present day. Students consider historical progress, freedom and determinism, the role of the individual in history, the problem of understanding past events, the role of social structures, and using history to critique the present.

Prerequisite: Completion of 45 credits (any discipline), or permission of the instructor.

PHIL 4300 3 credits
Philosophy of Law (3,0,0)
This course includes various topics in law from the basic 'What is law?' to specific issues in law, such as 'What are rights?' Of primary importance to the philosophy of law are the relations between legal rules and the rules of ethics and custom; the difference between law and mere coercion; the social and ethical foundation of law and legitimacy; the limits of law and the state; citizens' rights against the state and one another; and the norms of our legal system.

Prerequisite: Completion of 45 credits (any discipline) or permission of the instructor

PHIL 4330 3 credits
Biomedical Ethics (3,0,0)
Students investigate various ethical issues related to the health sciences, especially in medicine, and consider these issues concretely and in relation to general ethical theory. The topics discussed in this course include abortion, death and euthanasia, genetic engineering, behaviour modification, treatment of the insane, right to treatment, experimentation on human beings and animals, and the relationship between professionals and their patients, subjects or clients. A background in philosophy is not required.

Prerequisite: Completion of 45 credits (any discipline), or permission of the instructor.

PHIL 4350 3 credits
Environmental Ethics (3,0,0)
This course offers a study of moral issues arising in the context of human relationships to nature and to non-human living things. Principal topics include the issue of what constitutes moral standing, animal rights, obligations to future generations, the moral dimensions of problems of pollution, the extraction, production and use of hazardous materials, the depletion of natural resources, and the treatment of non-living things.

Prerequisite: Completion of 45 credits (any discipline), or permission of the instructor.

PHIL 4390 3 credits
Philosophy of Sex and Love (3,0,0)
Students philosophically examine the factors involved in human romantic relationships; sex and love are analysed both together and separately. In such a dynamic and complicated field of study it is necessary to focus on some guiding topics such as, but not limited to, the nature of love, why we couple, polygamy, marriage, prostitution, perversion, and pornography. Students approach these topics from an ontological, social and moral perspective.

Prerequisite: Completion of 45 credits (any discipline) or permission of the instructor

PHIL 4400 3 credits
Philosophy of Science (3,0,0)
Students investigate philosophical questions central to all sciences. These questions include the nature of scientific knowledge and laws; hypotheses and explanation; principles, theories, and models; the difference between science and pseudoscience; and why science is so successful.

Prerequisite: Completion of 45 credits (any discipline), or permission of the instructor.

PHIL 4510 3 credits
Persons, Minds and Bodies (3,0,0)
Students explore consciousness and its relation to the body; personal identity andsurvival; knowledge of other minds; and psychological events and behaviour.

Prerequisite: One of PHIL 2140, 2150, and completion of 45 credits, or permission of the instructor

PHIL 4910 3 credits
*****Selected Topics in Philosophy (3,0,0)**
This course offers a focussed and detailed study of a specific topic or movement in philosophy, or a particular philosopher. The focus of the course changes from year to year, and the course topic subtitle is updated at each offering. A student may take this course twice providing the topic of study is different.

Prerequisite: PHIL 1010 or PHIL 1020 or PHIL 1100.

PHIL 04920 3 credits
*****Selected Topics in Ethics (3,0,0)**
This course is an in-depth critical investigation of a particular ethical issue (such as abortion, capital punishment, or war), a particular ethical school (such as Deontology, Virtue Ethics, Utilitarianism) or a particular ethicist (such as Sedgwick, J.S. Mill, Feinberg). Topics may change from year to year.

Prerequisite: One of PHIL 2010, 2210

PHYS 0500 4 credits
Introduction to Physics 1 (5,0,2)(L)
ABE - Advanced: This course is suitable for students with little or no physics background. Physics 0500 examines the basic principles upon which the discipline of physics is founded. In doing so, it provides students with a new perspective from which to view the world around them and with a solid content basis for future courses in physics should this be the objective. The course is oriented toward developing experimental and problem solving skills.

Prerequisite: MATH 0500

Note: This course is taught by the University Preparation Department. Students cannot receive credit for both PHYS 0501 and PHYS 0500

PHYS 0600 4 credits
Introduction to Physics 2 (5,0,2)(L)
ABE - Provincial: This course is an indepth study of the principles of scientific measurement, vectors, two-dimensional kinematics and dynamics, electrostatics, electromagnetism, vibrations and waves and optics. Physics 0600 is a Provincial level (grade 12 equivalency) physics course. It will prepare students for university, trades and technology programs which require Physics 12 as a prerequisite. The course is primarily theoretical and places an emphasis on the mathematical analysis of physical phenomena and the development of problem solving and experimental skills.

Prerequisite: PHYS 0500 or Physics 11 and MATH 0510 or Principles of Math 11

Note: This course is taught by the University Preparation Department. Students cannot receive credit for both PHYS 0600 and PHYS 0601

PHYS 1010 3 credits
Physics for Future Leaders (3,0,0)
Students explore key concepts in physics, focusing on understanding rather than mathematics. Physics is introduced in the context of current events. Topics vary but may include terrorism and explosions, energy and the environment, earthquakes and tsunamis, radioactivity and medicine, satellites and gravity. Additional topics are discussed according to student interest and may include quantum physics and teleportation, relativity, and cosmology.

Prerequisites: No prior physics or math required. Open to all students.

English as a second language students must have completed ESL Level 3 or higher.

PHYS 1020 3 credits
Energy: Physical, Environmental and Social Impact (3,0,0)
Our use of energy affects everything from human health to the global climate. The objective of this course is to provide students with a qualitative understanding of the physical concepts surrounding the production, the storage, the conversion, and the consumption of various forms of energy in our modern society. As in PHYS 1010: Physics for Future Leaders, there is an emphasis on the understanding of the physical concepts rather than the mathematics. Topics include energy consumption, the Hubbert model, thermodynamics, environmental effects of fossil-fuels, climate change and human activity, the greenhouse effect, production of electricity, nuclear power and nuclear waste, renewable and green energy sources, fuel cells, and transportation issues.

Prerequisite: No prior physics or math required. Open to students in all degree programs. English as a second language students must have completed ESL level 3 or higher.

PHYS 1100 3 credits
Fundamentals of Physics 1 (3,0,3)(L)
An algebra-based introduction to physics intended for students with some secondary school physics background. Students develop a basic understanding of several fields of physics through conceptualization, problem-solving and laboratory exercises. Topics include mechanics, fluid mechanics, waves, and thermodynamics.

Prerequisite: Math Pre-Calculus 12 or equivalent with a C+ minimum and Physics 11 or equivalent with a C+ minimum

Corequisite: MATH 1130 or 1140 or 1150

Required Lab: PHYS 1100L

PHYS 1150 3 credits
Mechanics and Waves (3,0,3)(L)
This course is intended for students with a good secondary school background in physics. Calculus will be introduced and used in the course. Topics covered include a short review of mechanics, simple harmonic motion, mechanical waves, sound, wave optics and geometric optics.

Prerequisite: Pre-calculus 12 (minimum C+) and Physics 12 (minimum C+) or equivalent

Corequisite: MATH 1130, MATH 1140, MATH 1150 or recommended - PHYS 1150/1250 recommended for students planning to major in physics or chemistry, and is strongly recommended for students planning to transfer into Engineering after a year of Science

Note: Students may only receive credit for one of PHYS 1150 or EPHY 1150

PHYS 1200 3 credits
Fundamentals of Physics 2 (3,0,3)(L)
This course is a continuation of PHYS 1100: Fundamentals of Physics 1. Topics include electricity and magnetism, optics, and selected topics from nuclear and modern physics.

Prerequisite: PHYS 1100; MATH 1130 or MATH 1140 or MATH 1150

Corequisite: MATH 1230 or 1240 or 1250

Required Lab: PHYS 1200L

PHYS 1250 3 credits
Thermodynamics, Electricity and Magnetism (3,0,3)(L)
This course is a continuation of PHYS 1150: Mechanics and Waves. Topics include thermodynamics, kinetic theory of gases, electricity and magnetism.

Prerequisite: PHYS 1150 and MATH 1130, MATH 1140 or MATH 1150

Corequisite: MATH 1230, MATH 1240 or MATH 1250

Note: Students may only receive credit for one of EPHY 1250 or PHYS 1250 | Required Lab: PHYS 1250L

PHYS 1510 3 credits
Applied Physics 1 (3,0,2)(L)
Students are given a basic introduction to the following concepts: linear and circular motion, force, friction, equilibrium, energy, momentum, simple machines, pin-jointed structures, and DC circuit analysis. Students develop an understanding of how these ideas are used in the design of structures.

Prerequisite: Admission to the Architectural and Engineering Technology Program

Required Lab: PHYS 1510L

PHYS 1580 3 credits
Physics for Respiratory Therapists (3,0,3)(L)
Students explore the basic physical concepts of fluid mechanics, the properties of fluids, and applied electricity. An emphasis is placed on laboratory work, particularly in the use of electrical and electronic measuring devices.

Prerequisite: Admission to year one of the Respiratory Therapy Diploma Program

Required Lab: PHYS 1580L

PHYS 1610 3 credits
Applied Physics 2 (3,0,2)(L)
Continuing from PHYS 1510: Applied Physics 1, the following topics are discussed: strength of materials, fluid statics and dynamics, thermal energy and heat transfer, vibrations and wave motion, and optics. This course furthers the understanding of physical properties and their influence on design.

Prerequisite: Admission to the Architectural and Engineering Technology Program

Required Lab: PHYS 1610L

PHYS 2000 3 credits
Relativity and Quanta (3,1,0)
Students are introduced to special relativity and quantum physics. Topics include Lorentz transformations, dynamics and conservation laws, the experimental evidence for quantization, and a qualitative discussion of the concepts of quantum mechanics and their application to simple systems of

atoms and nuclei. This course is equivalent to CHEM 2000.

Prerequisite: PHYS 1100/1200 or PHYS 1150/1250; MATH 1130/1230 or MATH 1140/1240 or MATH 1150/1250

Note: Credit will not be given for both CHEM 2000 and PHYS 2000

Required Seminar: PHYS 2000S

PHYS 2150 3 credits

Circuit Analysis (3,1,3)(L)

This course is an analysis of linear electrical circuits, network theorems, first and second order circuits, and transfer functions.

Prerequisite: PHYS 1100/1200 (with written permission of the Instructor) or PHYS 1150/1250, MATH 1130/1230 or MATH 1140/1240 or MATH 1150/1250 (with permission of the instructor)

Required Lab: PHYS 2150L

PHYS 2200 3 credits

Mechanics (4,0,0)

This is an intermediate-level course on Newtonian mechanics. Topics include the statics of particles and rigid bodies, friction, moments of inertia and distributed forces, dynamics of particles in inertial and non-inertial frames of reference, systems of particles, kinetics and dynamics of rigid bodies, rotational motion, and simple harmonic motion.

Prerequisite: PHYS 1100/1200 or PHYS 1150/1250; MATH 2110

PHYS 2250 3 credits

Intermediate Electromagnetism (3,0,3)(L)

This course provides an extension to the topics covered in PHYS 1200/1250 and examines the basic principles of electromagnetism using a sophisticated mathematical approach. Topics include vector algebra, electrostatics, magnetostatics, electric and magnetic fields in matter, as well as an introduction to electrodynamics. Topics are presented and examined using lectures and laboratory experiments.

Prerequisite: PHYS 1100/1200 or PHYS 1150/1250; MATH 1130/1230 or MATH 1140/1240 of MATH 1150/1250 (with permission of the instructor)

Required Lab: PHYS 2250L

PHYS 3000 3 credits

Introduction to Quantum Computing (3,1,0)

The course is intended for upper level students in physics, computing science or mathematics. The course is dividedinto three parts. In the first third, students are introduced to quantum mechanics systems which are viable forcomputing. In the second section, students explore the mathematical formulation of quantum computing algorithmsand in the third section of the course students develop code suitable for implementation by an actual quantum computer.

Prerequisites: COMP 1130, MATH 2120 or MATH 1650 and MATH 1700 with third year standing.

Recommended: Students should be comfortable with the concepts of waves, energy, atoms and electrons as discussed in high school or first-year university courses.

PHYS 3080 3 credits

Optics (3,0,3)

Students are presented with the basic principles of optics. Topics include geometric optics and wave optics (interference, diffraction, and Fourier optics) as well as polarization and modern applications. Laboratory work involves selected experiments in optics.

Prerequisite: PHYS 2250

Required Lab: PHYS 3080L

PHYS 3090 3 credits

Analog Electronics (0,2,3)(L)

In this laboratory course students are introduced to the theory of operation of diodes, bipolar transistors, field-effect transistors, and operational amplifiers. The topics of feedback, gain, input and output impedances, as well as frequency response are also covered. Students learn to design, assemble, and test analog circuits including power supplies, amplifiers, filters, and mixers. The software LabView is used to acquire and analyze experimental data.

Prerequisite: PHYS 2150

Required Lab: PHYS 3090L

PHYS 3100 3 credits

Digital Electronics (3,0,3)(L)

This course is an introduction to Boolean algebra and logic gates; the analysis and the design of combinational and sequential digital circuits; and the architecture and programming of microcontrollers. Students design, assemble, and test digital logic circuits using discrete gates, FPGAs, and microcontrollers.

Prerequisite: PHYS 2150

Required Lab: PHYS 3100L

PHYS 3120 3 credits

Introduction to Mathematical Physics (3,1,0)

This course is divided into three parts. Students begin by examining methods for solving ordinary differential equations. Power series methods are applied to obtain solutions near ordinary points and regular singular points, and the real Laplace transform is discussed. Next, students discuss Sturm-Liouville boundary-value problems, Fourier series, and other series of eigenfunctions, including Fourier-Bessel series. Students are then introduced to boundary-value problems involving partial differential equations. Emphasis is placed on the heat equation, the wave equation and Laplace's equation, with applications in Physics. The method of separation of variables is used.

Prerequisite: MATH 2240

Note: This course is the same as MATH 3160. Credit will be only given for one of PHYS 3120 and MATH 3160

Required Seminar: PHYS 3120S

PHYS 3140 3 credits

Fluids (3,0,0)

Students are introduced to the key concepts and equations used to describe fluids. Starting with a description of rarefied fluids using kinetic theory, simple gas transport properties are derived. Euler's and Bernoulli's equations are examined under static and steady flow conditions. Students derive and examine the Navier-Stokes equation and the equation of continuity under conditions of, steady flow and one-dimensional approximation. Equations to describe the flow of viscous fluids, flow in pipes, flow over immersed bodies, and open channel flow are also introduced. Finally, students explore properties of water waves such as the dispersion relation, capillary and gravity waves.

Prerequisite: PHYS 2200

Corequisite: MATH 2240

PHYS 3150 3 credits

Physics of Materials (3,0,0)

Students explore introductory concepts in the description of solids. Topics include bonding, crystal structure, defects, strength of materials, heat capacity, lattice vibrations and phonons, electrical properties, band theory, and semiconductors.

Prerequisite: PHYS 2000 or CHEM 2000

Corequisite: MATH 2110

PHYS 3160 3 credits

Classical and Statistical Thermodynamics (3,0,0)

Students are introduced to the principles of elementary classical thermodynamics, kinetic theory, and statistical mechanics. These theories are applied to a variety of physical processes and systems, such as ideal and real gases, heat engines, and quantum systems.

Prerequisite: PHYS 1100/1200 or PHYS 1150/1250; MATH 1130/1230 or MATH 1140/1240; MATH 2110

PHYS 3200 3 credits

Advanced Mechanics (3,0,0)

This course offers an extension to the concepts studied in PHYS 2200: Mechanics. Topics include Newtonian mechanics, oscillations, central forces, motion in noninertial frames, Hamilton's principle and Lagrange's equations, systems of particles, and dynamics of rigid bodies.

Prerequisite: PHYS 2200, MATH 2110, MATH 2120, MATH 2240 and MATH 3170

PHYS 3250 3 credits

Advanced Electromagnetism (3,1,0)

Students develop a working knowledge of electrodynamics, which requires a solid grounding in vector calculus, partial differential equations, and an in-depth understanding of Maxwell's equations. Topics include a review of vector calculus; Laplace's equation; potential theory; electrostatics and magnetostatics in matter; electrodynamics; special relativity; and electromagnetism.

Prerequisite: PHYS 2250, MATH 2240 and MATH 3170

Required Seminar: PHYS 3250S

PHYS 3300 3 credits

Biophysics (3,0,3*)(L)

Students apply the basic principles of physics to the actions, body design and physical limitations of animals, mainly vertebrates. Topics include physical concepts of forces, materials structure, fluid mechanics, light and sound, and electricity and magnetism. These topics are applied to biological aspects such as strength of bodies, movement through air and water, and organismal behaviour. This course is offered in the Winter semester of odd-numbered years.

Prerequisite: PHYS 1100/1200 or 1150/1250; BIOL 1040 or 1050 or 1110 or 1210 (BIOL 1210 preferred)

Required Lab: PHYS 3300L

PHYS 3400 3 credits

Principles and Applications of Quantum Mechanics 1 (3,0,0)

Students build on the basic concepts of quantum physics examined in PHYS 2000: Relativity and Quanta, and develop a formulation of quantum mechanics, initially using the wave-mechanical approach, and then formally using the state-vector approach. Finally, this theory is applied to one-electron atoms, and other quantum systems.

Prerequisite: PHYS 2000; MATH 2240; MATH 3170

PHYS 3500 3 credits

Selected Topics in Physics (3,0,0)

Students explore current topics in Physics. The course content varies from year to year, and may include topics such as nanotechnology, superconductivity, photonics, semiconductor physics, and optoelectronics.

Prerequisite: Prerequisites will vary from year to year but typically consist of a combination of second-year courses in Physics and Mathematics. Consult the Bachelor of Science Program Advisor for the specific prerequisites for each offering.

PHYS 4140 3 credits

Radioactivity and Nuclear Physics (3,0,0)

In this survey course, students study basic concepts of nuclear physics, with applications in power, medicine, geology, industry, archaeology and cosmology.

Prerequisite: PHYS 2000 or CHEM 2000, PHYS 2250 and MATH 2240

PHYS 4400 3 credits

Principles and Applications of Quantum Mechanics 2 (3,0,0)

This course is a continuation of PHYS 3400: Principles and Applications of Quantum Mechanics 2. Students start with a review of angular momentum and spin, and the hydrogen atom. Students then examine standard techniques that find wide applications in the study of quantum phenomena. These techniques include the perturbation theories, the variation principle, and the WKB and adiabatic approximations. These are subsequently applied to problems related to the fine structure of hydrogen, the Zeeman effect, molecules, tunnelling, radiation, and scattering.

Prerequisite: PHYS 3400

PHYS 4480 3 credits

Directed Studies in Physics (L)

Students investigate a specific topic involving experimental work as agreed upon by the student and her or his faculty supervisor and co-supervisor. This course provides experience with research techniques and the presentation of results.

Prerequisite: Acceptance into Physics Major; approval of supervisor and co-supervisor

PHYS 4500 3 credits

Advanced Physics Laboratory (0,2,3)(L)

In this course, students work with experimental apparatus over an extended period of time to complete rigorous data analysis and present their findings. Laboratory work provides opportunities in several areas of physics including condensed matter physics, optics, signal conditioning, astronomy and image processing, nuclear physics, and acoustics. Students use sophisticated equipment such as a transmission electron microscope, scanning electron microscope, thin film evaporator, and low temperature cryostats.

Prerequisite: PHYS 3080 or PHYS 3090/3100

PLUM 1000

Plumbing Apprentice Level 1

Students are introduced to theory and gain hands-on lab experience in the following topics: safe work practices, proper use of tools and equipment, organizing work, and preparing and assembling plumbing components.

Prerequisite: Registered Plumber Apprentice with the BC Industry Training Authority

PLUM 1010

Trade Entry Plumbing - Foundation

Students are introduced to theory and gain hands-on lab experience in the following topics: safe work practices, proper use of tools and equipment, organizing work, and preparing and assembling plumbing components.

PLUM 1900

Plumbing Trade Sampler (120 hours)

This course is a sampler of the plumbing trade based on the Plumbing/Piping Foundation Program outline from the Industry Training Authority of BC. Students will gain familiarity with the safe use of hand tools, portable power tools and other equipment regularly used by plumbers/pipefitters, as well as gaining familiarity with many of the construction materials used in the Trade. The emphasis of this course is on developing practical, hands-on plumbing/piping skills.

Prerequisite: Completion of Grade 10

PLUM 2000

Plumbing Apprentice Level 2

Students are introduced to theory and gain hands-on lab experience in the following topics: using measuring and leveling tools, reading drawings and specifications, installing sanitary and storm drainage systems, installing fixtures and appliances, installing hydronic heating and cooling, and installing specialized medical gas and compressed air systems.

Prerequisite: Registered Plumber Apprentice with the Industry Training Authority

PLUM 3000

Plumbing Apprentice Level 3

Students are introduced to theory and gain hands-on lab experience in the following topics: reading drawings and specifications, installing water services and distribution, installing fixtures and appliances, installing fire protection systems, and installing natural gas and propane systems.

Prerequisite: Registered Plumber Apprentice with the Industry Training Authority

PLUM 4000

Plumbing Apprentice Level 4

Students are introduced to theory and gain hands-on lab experience in the following topics: planning a project, installing sanitary and storm drainage systems, installing private sewage systems, installing potable water distribution systems, maintaining and repairing hydronic systems, installing irrigation systems, installing venting and air supplies, installing service controls and safeguards, and using gas codes, regulations, and standards.

Prerequisite: Registered Plumber Apprentice with the Industry Training Authority

PNUR 1300 3 credits

Introduction to Anatomy and Physiology (48 hours)

This course provides an overview of the structure and function of body systems, and encourages various health promotion strategies that work towards optimum functioning of these systems.

Prerequisite: Biology 12 or BIOL 0600, minimum grade C

PNUR 1420 2 credits

Professional Practice 1 (2,0,0)

This theory course provides an introduction to the profession of practical nursing. Legislation that informs PN practice within British Columbia will be introduced. The history of nursing and specifically, the evolution of Practical Nursing within the Canadian Health Care system will be discussed. The philosophy and foundational concepts of this PN Program curriculum are explored.

Prerequisite: Admission to the Practical Nurse Program

PNUR 1430 2 credits

Professional Practice 2 (2,0,0)

This course examines the legislation influencing PN practice with clients experiencing chronic illness and those in residential care settings. Specific professional issues such as responsibility, accountability, ethical practice and leadership relevant to the PN role in residential care are explored. Critical thinking and decision making specific to the care of clients with chronic health challenges and inter-professional practice will also addressed.

Prerequisite: PNUR 1570

PNUR 1520 3 credits

Integrated Nursing Practice 1 (3,0,7)(L)

This course emphasizes the art and science of nursing, focusing on the development of basic nursing care and assessment. Learners will apply nursing knowledge through the practice of clinical decision making, nursing assessment skills, and nursing interventions aimed at the promotion of health, independence, and comfort. A variety of approaches (e.g., simulation) will be used to assist learners to integrate theory from other Semester 1 courses.

Prerequisite: Admission to the Practical Nurse Program

Required Lab: PNUR 1520L

PNUR 1530 4 credits

Integrated Nursing Practice 2 (4,0,10)(L)

This practical course builds on the foundation of Semester 1 and emphasizes the development of clinical decision making, nursing assessments and interventions to promote the health of older adults. Classroom, laboratory, simulation, and other practice experiences will help students to integrate theory from Semester 1 and 2 courses to provide safe, competent and ethical nursing care for older adults.

Prerequisite: Successful completion of PNUR 1570

Required Lab: PNUR 1530L

PNUR 1570 3 credits

Consolidated Practice Experience 1 (0,0,6P)

This first clinical experience provides the learners with an opportunity to integrate theory from semester 1 coursework into practice. Learners will work in various settings with a focus on the healthy client. Learning the role of a Practical nurse, personal care skills, organization of care, focused assessment, beginning medication administration and professional communication are emphasized in this course.

Prerequisite: PNUR 1600, PNUR 1420, PNUR 1700, PNUR 1750, PNUR 1800, PNUR 1520. All courses must have a minimum of 60%.

Requirements: Current CPR certificate (basic life support C); a recent negative TB skin test report (if tested positive a satisfactory chest x-ray); current up to date immunizations; criminal record search; original Fit Test certificate.

PNUR 1580 3 credits

Consolidated Practice Experience 2 (0,0,8P)

This clinical experience provides students with the opportunity to integrate theory from Semester 1 and 2 courses into practice. Students will work with older adult clients with chronic illness in residential care settings. Medication administration, nursing care, organization, comprehensive health assessment, wound care and leadership are emphasized in this course.

Prerequisite: PNUR 1610; PNUR 1710; PNUR 1760; PNUR 1810; PNUR 1530. All courses must have a minimum of 60%.

PNUR 1600 3 credits

Professional Communications 1 (3,0,0)

This course provides learners with the foundational knowledge for caring and professional communication in nursing. It uses an experiential and self-reflective approach to develop self-awareness and interpersonal communication skills in the context of safe, competent and collaborative nursing practice. Communication theory, the nurse-client relationship, therapeutic communication, cross-cultural communication, effective teamwork and learning and teaching concepts are covered.

Prerequisite: Admission to the Practical Nurse Program

PNUR 1610 2 credits

Professional Communications 2 (2,0,0)

This course provides the learner an opportunity to develop professional communication skills with the older adult, including end of life care. Interprofessional communication is further developed.

Prerequisite: PNUR 1570

PNUR 1700 3 credits

Variations in Health 1 (3,0,0)

This introductory course provides the learner with the foundations of disease and illness across the lifespan. Learners will gain an understanding of pathophysiological alterations of body systems. Nursing management of disease and illness across the lifespan with an emphasis on interventions and treatment is also discussed. Cultural diversity in healing practices will be explored as well as the incorporation of evidenced informed practice.

Prerequisite: Admission to the Practical Nurse program

PNUR 1710 3 credits

Variations in Health 2 (4,0,0)

This course focuses on pathophysiology as it relates to the ageing process and selected chronic illnesses. The main focus is on the care of older adults experiencing a health challenge. Cultural diversity in healing practices will be explored as well as evidence informed research and practice.

Prerequisite: PNUR 1570

PNUR 1750 2 credits

Health Promotion 1 (2,0,0)

This introductory course will increase the learners understanding of health promotion within the Canadian context. This includes health enhancement, health protection, disease prevention, health restoration/recovery, care and support. Knowlege of growth and development, health inequities and determinants of health will support the Practical Nurse to provide culturally appropriate and holistic care.

Prerequisite: Admission to the Practical Nurse program

PNUR 1760 2 credits

Health Promotion 2 (2,0,0)

This course focuses on health promotion as it relates to the aging process. Health promotion activities are aimed at supporting clients in maintaining their health. The concepts of health promotion, physical and mental wellness, and continued independence are examined.

Prerequisite: Successful completion of PNUR 1570

PNUR 1800 2 credits

Pharmacology 1 (2,0,0)(L)

This introductory course examines the principles of pharmacology required to administer medications in a safe and professional manner. Medication administration requires the application of the nursing process for clinical decision-making. The routes of medication administration introduced include medications used to treat constipation, eye and ear disorders and the Integumentary system. Complementary, Indigenous and alternative remedies, and polypharmacy across the lifespan are explored.

Prerequisite: Admission to the Practical Nurse program

PNUR 1810 2 credits

Pharmacology 2 (2,0,0)(L)

This course addresses pharmacology and will increase the learners understanding of pharmacology and medication administration across the lifespan. Medications used to treat diseases related to specific body systems are the main focus of the course. Also included are the topics of substance abuse and addiction.

Prerequisite: PNUR 1570

PNUR 2420 2 credits

Professional Practice 3 (2,0,0)

This course integrates the concepts from previous professional practice courses and introduces the learner to practice in the community (maternal/child and mental health). The role of the practical nurse as leader is emphasized in interactions with clients, families, groups and other healthcare providers.

Prerequisite: PNUR 1580

PNUR 2430 2 credits

Professional Practice 4 (2,0,0)

This course is intended to prepare the learner for the role of the practical nurse in caring for clients with acute presentation of illness. Legislation influencing PN practice, specific professional practice issues and ethical practice pertinent to PN practice in acute care environments will be explored. Practice issues that occur across the lifespan will be considered. Collaborative practice with other health care team members and specifically the working partnership with RN's in the acute care setting will be explored.

Prerequisite: PNUR 2570

PNUR 2520 3 credits

Integrated Nursing Practice 3 (3,0,6)(L)

This practical course builds on the theory and practice from Semester 1 and 2. Through a variety of approaches (e.g. simulation), learners will continue to develop knowledge and practice comprehensive nursing assessment, planning for, and interventions for clients experiencing multiple health challenges.

Prerequisite: Successful completion of PNUR 1580

Required Lab: PNUR 2520L

PNUR 2530 4 credits

Integrated Nursing Practice 4 (4,0,10)(L)

This practical course emphasizes the development of nursing skills aimed at promoting health and healing with individuals experiencing acute health challenges across the lifespan. Classroom, laboratory, simulation, and integrated practice experiences will help learners build on theory and practice from Semester 1, 2 and 3 to integrate new knowledge and skills relevant to the acute care setting.

Prerequisite: Successful completion of PNUR 2570

Required Lab: PNUR 2530L

PNUR 2560 2 credits

Transition to Preceptorship (2,0,0)(L)

Transition to Preceptorship will prepare the learner for the final practice experience. A combination of instructor led simulation experiences and self-directed learning will provide the learner with increased competence and confidence to practice in their chosen area for Preceptorship (i.e. medical, surgical, complex care).

Prerequisite: PNUR 2580

PNUR 2570 2 credits

Consolidated Practice Experience 3 (0,0,4P)

This practice experience will introduce the learners to community care settings and an opportunity to apply and adapt knowledge gained in Semesters 1, 2, and 3, within a continuum of care for clients across the lifespan. Learners may gain experience through simulation and in a variety of community and residential care agencies and settings.

Prerequisite: PNUR 2600; PNUR 2570; PNUR 2700; PNUR 2750; PNUR 2520. All courses must have a minimum of 60%.

PNUR 2580 4 credits
Consolidated Practice Experience 4 (0,0,13P)
This practice experience provides learners with the opportunity to integrate theory from all courses into the role of the Practical Nurse in the acute care setting and other practice areas as appropriate. Learners will focus on clients with exacerbations of chronic illness and/or acute illness across the lifespan and will consolidate knowledge and skills such as: post operative care, surgical wound management, intravenous therapy, focused assessment, and clinical decision-making in acute care settings.

Prerequisite: PNUR 2610; PNUR 2430; PNUR 2710; PNUR 2760; PNUR 2530. All courses must have a minimum 60%.

PNUR 2590 4 credits
Preceptorship (0,0,12P)
This final practice experience provides an opportunity for learners to demonstrate integration and consolidation of knowledge, skills and abilities within the realities of the workplace and become practice ready. The final practice experience (FPE) will follow a preceptorship model which is an individualized, faculty monitored practice experience. In a preceptorship model, the learner is under the immediate supervision of a single, fully qualified individual, and monitored by faculty.

Prerequisite: PNUR 2560, PNUR 2580

PNUR 2600 2 credits
Professional Communications 3 (2,0,0)
This course focuses on specific professional communication skills used with clients across the lifespan who have mental illness or developmental disabilities. In addition, communication with children will be addressed. Prerequisite: PNUR 1580

PNUR 2610 2 credits
Professional Communications 4 (2,0,0)
The focus of this course is on the advancement of professional communication within the acute care setting across the lifespan. The practice of collaboration with health care team members and clients will be further developed. | Prerequisite: PNUR 2570

PNUR 2700 3 credits
Variations in Health 3 (4,0,0)
This course focuses on the continuum of care and the development of knowledge related to health challenges managed in the community setting. Pathophysiology and nursing care of clients requiring home health care, rehabilitation, and supportive services in the community will be explored. Cultural diversity in healing approaches will be explored as well as the incorporation of evidence informed research and practice.

Prerequisite: PNUR 1580

PNUR 2710 3 credits
Variations in Health 4 (4,0,0)
This course focuses on pathophysiology as it relates to acute disease and illness of clients across the lifespan, specifically the care of the client experiencing acute illness including nursing interventions and treatment options. Implications of the acute exacerbation of chronic illness will be addressed. Cultural diversity in healing practices will be explored as well as evidence informed research and practice.
Prerequisite: PNUR 2570

PNUR 2750 3 credits
Health Promotion 3 (3,0,0)
This course is focused on health promotion as it relates to the continuum of care across the lifespan. Health promotion in the context of mental illness, physical and developmental disabilities, and maternal/child health is highlighted. Normal growth and development from conception to middle adulthood is addressed.

Prerequisite: Successful completion of PNUR 1580

PNUR 2760 2 credits
Health Promotion 4 (2,0,0)
This course focuses on health promotion for the client experiencing an acute exacerbation of chronic illness or an acute episode of illness. Relevant health promoting strategies during hospitalization may improve or help maintain their health status after discharge. Learners will focus on preparing clients for discharge, through teaching and learning of health promotion strategies.

Prerequisite: Successful completion of PNUR 2570

POLI 1110 3 credits
The Government and Politics of Canada (3,0,0)
Students are introduced to the main processes, structures and institutions of Canadian politics and government, including the Constitution, social cleavages, the Prime Minister and cabinet, parliament, political parties and ideologies, federalism and the structure of power.

POLI 1210 3 credits
Contemporary Ideologies (3,0,0)
This course provides an examination of the major systems of political ideas which have shaped the modern world, including liberalism, conservatism, socialism, communism, anarchism, fascism and nationalism. Students analyze these ideologies from the perspective of their historical and philosophical antecedents, contemporary relevance, and place in the Canadian political experience.

POLI 2140 3 credits
Resistance and Revolution (3,0,0)
The purpose of this course is to provide an introduction to the discipline of political science by intensively studying one political phenomenon: the revolution. The course begins with a discussion of the nature of social scientific inquiry, and proceeds to an examination of the characteristics of revolutions, and various theories which attempt to explain their occurrence.

Prerequisite: Completion of 30 credits (any discipline)

POLI 2150 3 credits
Comparative Politics (3,0,0)
This course is designed to furnish students with the tools and concepts of political analysis related to the functioning of several political systems. The selection of political systems to be studied may vary from year to year.

Prerequisite: Completion of 30 credits (any discipline).

POLI 2220 3 credits
Political Philosophy (3,0,0)
Students examine important themes of the western political tradition through an analysis of selected political philosophers, such as Plato, More, Machiavelli, Locke, Rousseau and Marx. The encounter with these theorists initiates discussion of such concepts as authority, justice, freedom, equality and political participation.

Prerequisite: Completion of 30 credits (any discipline)

POLI 2230 3 credits
Canadian Government 2: Public Administration and Public Policy (3,0,0)
Students focus on the structure of government and the output side of the political system. Topics include the analysis of the structure of government in Canada, the executive, the evolution of policy-making structures and styles, the contemporary policy-making process, and the Canadian bureaucracy.

Prerequisite: POLI 1110

POLI 2250 3 credits
Law and Politics (3,0,0)
This course offers an introduction to law, politics and the judiciary, with particular emphasis on the role of the judiciary in relation to selected issues in political science. The principal focus in this course is on the Canadian legal system, and comparison to other legal systems.

Prerequisite: Completion of 30 credits (any discipline).

POLI 2600 3 credits
International Politics (3,0,0)
This course is an analysis of the relations between states. Topics discussed in this course may include the evolution of international systems, East-West and North-South issues, the techniques of wielding international influence (through diplomacy, propaganda, foreign aid, subversion, and war), and the sources and nature of international conflict and cooperation.

Prerequisite: Completion of 30 credits (any discipline)

POLI 2900 3 credits
*****Topics in Politics 2 (2,1,0)**
Students explore topics in politics that introduce global, international, and comparative themes and issues. As determined by faculty and approved by the department, the focus of the course will be drawn from a wide range of topics, such as global governance and international organizations, political development, public policy and public administration, security, human rights, corporate responsibility, political conflict, refugees, global warming, international law, international theory, state-craft, and more.

POLI 3010 3 credits
Canadian Political Parties (3,0,0)
Students examine the organization and operation of party politics, and the systems of party competition in Canada. National-level politics are emphasized.

Prerequisite: Completion of 30 credits (any discipline)

POLI 3030 3 credits
Federalism in Canada (3,0,0)
Students examine the theory and practice of federalism, including cultural duality, social stresses, problems of flexibility, the Constitution, and role of the courts.

Prerequities: Completion of 30 credits (any discipline).

POLI 3050 3 credits
Canadian Political Ideas (3,0,0)
Students examine the political theories and ideologies in Canada, and analyze key Canadian political writers and the impact of ideas on political issues.

Prerequities: Completion of 30 credits (any discipline).

POLI 3070 3 or 6 credits
The European Orient: Balkans, Russia and Eastern Europe (3,0,0) or (3,0,0)(3,0,0)
Students survey the cultures shaping Central and Eastern Europe, including Russia, examining the interplay between local and national culture, and between ethnic and political identity.

Prerequisite: Completion of 45 credits

Note: Students cannot receive credit for more than one of POLI 3070, ANTH 3030, HIST 3030 or SOCI 3030

POLI 3100 3 credits
Local Government in Canada (3,0,0)
This course is an introduction to local government in Canada and the contemporary issues facing municipalities. The themes discussed in this course include local government powers and responsibilities, community planning, fiscal and investment issues, and elections and community participation.

Prerequisite: ANTH 1210 or SOCI 1110 or SOCI 1210 or POLI 1210.

POLI 3200 6 credits
American Government and Politics (3,0,0) or (3,0,0)(3,0,0)
Students examine the social context of American politics, voting behaviour, legislature process, executive powers, executive-legislative relations, judicial behaviour, and problems of policy.

POLI 3210 3 credits
Western Europe Political Thought: From Cicero to Machievelli (3,0,0)
Students examine the evolution of European political thought and its practical applications from Ancient Rome to the Renaissance. This course includes an exploration of the major foundational theories and their influence on the creation of institutional structures, and the governmental apparatuses and ideologies designed to uphold them.

Prerequisite: POLI 1210 and one of HIST 1160 or HIST 2180 or HIST 2280

Note: This course is identical to HIST 3210

POLI 3420 3 credits
Modern Political Theory: Analysis of a Selected Theorist (3,0,0)
This course offers a detailed examination of an acknowledged masterpiece of modern political theory. The text and attendant literature selection varies from year to year.

POLI 3440 3 credits
Social and Political Thought (3,0,0)
Students examine major concepts in political philosophy such as justice, equality, rights, obligation, and liberty in the context of both classical and contemporary political thought.

POLI 3460 3 credits
Democratic Theory (3,0,0)
This course is an examination of both classical and contemporary theories of democracy including representative democratic theory, participatory democratic theory and their relationship to 20th century concepts of democracy.

POLI 3500 3 credits
The Politics of Mexico (3,0,0)
Students examine the contemporary political, social and economic problems that confront Mexico, with an emphasis on democratization, human rights, economic restructuring, free trade, political parties, reformist and revolutionary movements.

POLI 3520 3 credits
Politics of Developing Nations (3,0,0)
Students examine the problems of economic development, social change and democratization in the Developing World from a political perspective.

The themes discussed in this course include colonialism, decolonization, relations between developed - developing nations, and political theories of development.

Prerequisite: POLI 1210 (Recommended)

POLI 3530 3 credits
The Concentration Camp: Global History and Politics (3,0,0)
The Concentration Camp is an institution of the Twentieth Century. This course will give an overview of historical precedents for the concentration camp, such as the ghetto, and then will examine the history and politics of the concentration camp, from the Spanish-American and Anglo-Boer Wars near the turn of the century (the first times the term, "concentration camp", was used), to the more notorious examples of Nazi Germany and the Soviet Union. Other examples, such as camps in Canada and the USA, China, parts of Africa, and even the "War on Terror" will be examined in detail. Why have modern states - across the ideological spectrum - made use of the concentration camps against real and preveived enemies?

Prerequisite: POLI 1210 (recommended)

Note: Same course as HIST 3530

POLI 3610 3 credits
Canadian Foreign Policy (3,0,0)
Students are introduced to the study of Canadian foreign policy, and focus on competing perspectives on Canadian foreign policy, the evolution and formation of Canadian foreign policy, and Canada's role in the globe as a middle power.

Prerequisite: Completion of 30 credits (any discipline). POLI 2600 recommended.

POLI 3640 3 credits
Politics of the Middle East (3,0,0)
This course is an introduction to the evolution and operation of Middle East political systems and issues. Students explore a number of major themes and issues that are relevant to the politics of the region specifically, and international relations in general. These issues include Islamism, colonialism, politics of oil, gender and democratization.

Prerequisite: POLI 1210 or POLI 2600 (Recommended)

POLI 3650 3 credits
Government and Business (3,1,0)
Students analyze government intervention in the face of mergers, bigness, and monopoly power, and consider possible government intervention in the face of unacceptable firm behaviour.

Prerequisite: ECON 1900 and either ECON 1950 or POLI 1110 (grades of C or better)

Note: This course is identical to ECON 3650. Students may not receive credit for both ECON 3650 and POLI 3650. ECON/POLI 3650 may be used to fulfill the pre-BBA elective requirement or the BBA Environmental requirement, but not both.

POLI 3900 3 credits
*****Topics in Politics 3 (2,1,0)**
Students explore topics in politics that introduce global, international, and comparative themes and issues. As determined by faculty and approved by the department, the focus of the course will be drawn from a wide range of topics, such as global governance and international organizations, political development, public policy and public administration, security, human rights, corporate

responsibility, political conflict, refugees, global warming, international law, international theory, state-craft, and more.

Prerequisities: 6 credits of POLI courses.

POLI 3990 3 credits
Globalization and Its Discontents: The Politics of Economic Change (3,0,0)
This course examines three economic institutions that are central to understanding the processes referred to as "globalization": the World Bank, the International Monetary Fund, and the World Trade Organization. The course develops a framework of the key concepts in discussions of globalization before exploring the political origins and current social consequences of these organizations and examining related issues of global governance, corporate accountability, and global justice.

Prerequisite: 60 credits

POLI 4010 3 credits
Canadian Provincial and Regional Politics (3,0,0)
Students examine political parties, processes, and institutions in the provincial political systems, and the regional arrangement between provinces.

POLI 4020 3 credits
Politics of the Canadian Constitutions (3,0,0)
This seminar examines the creation and amendment of Canadian Constitutions; political aspects of the judicial system; and political consequences of our decisions.

POLI 4030 6 credits
Field School in East/Central Europe (3,0,0)
This course offers an introduction to the societies and cultures of East/Central Europe by way of a month-long field trip. The itinerary includes rural and urban locations in several countries that lend themselves to an ethnographic examination of the ethnic relations, religions, economies, and politics shaping the buffer zone between the European East and West.

Note: This course is equivalent to ANTH 4030 and SOCI 4030

POLI 4050 3 credits

*****Topics in Canadian Politics (3,0,0)**

This seminar course offers an in-depth examination of the important issues in Canadian politics.

POLI 4060 3 credits

*****Topics in Latin American Politics (3,0,0)**

Students examine contemporary political, social, and economic problems that confront Latin America. Demilitarization, democratization, human rights, economic restructuring, and free trade are emphasized.

Prerequisite: Completion of 30 credits (any discipline)

POLI 4110 3 credits

Humanitarian Intervention: A Canadian Perspective (3,0,0)

Students examine a shift in Canada's foreign policy that has taken Canada from being a peacekeeper to a peacemaker. International law, the massacre of civilians, the establishment of an international criminal court, and Canada's role in the "war on terrorism" are among the issues studied.

Prerequisite: Completion of 30 credits (any discipline). POLI 2600 and/or POLI 3610 recommended.

POLI 4710 3 credits

Communism and the Environment (3,0,0)

This course will focus on the history and politics of communism and the environment. As such, it will explore environmental issues and policies in the Soviet Union, China and Cuba. Students will examine other related issues, such as the writings of Marx, Engels, Lenin, and others; ideology, political philosophy and the environment; and the role of communism and socialism in environmental movements, today. Students will also be asked to compare environmental practices in communist countries with those of capitalist countries.

Prerequisite: Completion of 30 credits (any discipline)

Note: Same course as HIST 4710

POLI 4900 3 credits

*****Topics in Politics 4 (3,0,0)**

Students explore topics in politics that introduce global, international, and comparative themes and issues. As determined by faculty and approved by the department, the focus of the course will be drawn from a wide range of topics, such as global governance and international organizations, political development, public policy and public administration, security, human rights, corporate responsibility, political conflict, refugees, global warming, international law, international theory, state-craft, and more.

Prerequisites: Completion of 6 credits of POLI courses.

POWR 1000 4 credits

Mechanical Science (120 hours)

This course introduces the math, science, thermodynamics and chemistry principles related to Power Engineering.

Prerequisite: Successful completion of the Accuplacer Assessment Tests. Reading Comprehension & Sentence Skills at 0600 level, Arithmetic & Algebra at 0500 level. Physics 11 recommended.

POWR 1010 4 credits

Safety & Environment (90 Hours)

This course introduces the student to general plant safety in Power, Heating, Pressure and Industrial plants that employ Power Engineers. They will review Codes & Standards, Workplace Hazardous Materials, fire prevention, fire suppression and how the environment is related to an operating plant.

Prerequisite: Successful completion of the Accuplacer Assessment Tests. Reading Comprehension & Sentence Skills at 0600 level, Arithmetic & Algebra at 0500 level. Physics 11 recommended.

POWR 1020 3 credits

Welding & Piping (60 Hours)

In this course students will describe the basic types of valves, piping and components, welding processes and testing used in industrial plants that employ Power Engineers.

Prerequisite: Successful completion of the Accuplacer Assessment Tests. Reading Comprehension & Sentence Skills at 0600 level, Arithmetic & Algebra at 0500 level. Physics 11 recommended.

POWR 1030 4 credits

Boiler Design 1 (90 Hours)

In this course students will describe high pressure boiler design and fittings, draft combustion supply, feed water treatment and high pressure boiler operation.

Prerequisite: Successful completion of the Accuplacer Assessment Tests. Reading Comprehension & Sentence Skills at 0600 level, Arithmetic & Algebra at 0500 level. Physics 11 recommended.

POWR 1040 2 credits

Plant Boiler 1 (30 Hours Shop)

In this course students will work with an operating boiler system.

Prerequisite: Successful completion of the Accuplacer Assessment Tests. Reading Comprehension & Sentence Skills at 0600 level, Arithmetic & Algebra at 0500 level. Physics 11 recommended.

POWR 1042 3 credits

Plant Boiler 2 (60 Hours)

This course is a continuation of Plant Boiler 1 where students will work with an operating boiler system.

Prerequisite: Successful completion of the Accuplacer Assessment Tests. Reading Comprehension & Sentence Skills at 0600 level, Arithmetic & Algebra at 0500 level. Physics 11 recommended.

POWR 1050 3 credits

Power Engineering 4A Review (60 Hours)

In this course the students will prepare and write the Power Engineering exam and the Provincial Class 4A exam.

Prerequisite: Successful completion of the Accuplacer Assessment Tests. Reading Comprehension & Sentence Skills at 0600 level, Arithmetic & Algebra at 0500 level. Physics 11 recommended.

POWR 1052 3 credits

Power Engineering 4B Review (60 Hours)

In this course the students will prepare and write the Power Engineering exam and the Provincial Class 4B exam.

Prerequisite: Successful completion of the Accuplacer Assessment Tests. Reading Comprehension & Sentence Skills at 0600 level, Arithmetic & Algebra at 0500 level. Physics 11 recommended.

POWR 1060 3 credits

Prime Movers (60 Hours)

In this course students will describe the conversion of heat into mechanical energy, operation of steam turbines, cooling towers, condensers, gas turbines and internal combustion engines. They will also describe the operation and maintenance of various types of pumps and compressors and importance of lubrication of the bearings for these types of equipment.

Prerequisite: Successful completion of the Accuplacer Assessment Tests. Reading Comprehension & Sentence Skills at 0600 level, Arithmetic & Algebra at 0500 level. Physics 11 recommended.

POWR 1070 3 credits

Electricity & Instrumentation 1 (60 Hours)

This course introduces students to the fundamentals of DC and AC electrical theory, DC and AC motors and generators, electrical transformers, electrical distribution systems and safety. Students will also describe the overall

purpose of instrumentation, devices used to measure pressure, level, flow temperature, humidity and the functions of transmitters, recorders, controllers and control actuators.

Prerequisite: Successful completion of the Accuplacer Assessment Tests. Reading Comprehension & Sentence Skills at 0600 level, Arithmetic & Algebra at 0500 level. Physics 11 recommended.

POWR 1080 4 credits

Boilers, Equipment & Controls 1 (120 Hours)

In this course students will describe the various types of boilers, the safe operating procedures for boilers systems, boiler safety devices, service and maintenance for boiler systems and control systems used in operating industrial plants and building HVAC systems.

Prerequisite: Successful completion of the Accuplacer Assessment Tests. Reading Comprehension & Sentence Skills at 0600 level, Arithmetic & Algebra at 0500 level. Physics 11 recommended.

POWR 1090 4 credits

Refrigeration Systems 1 (120 Hours)

In this course students will describe the basic concepts of refrigeration and refrigerants and describe the operating principles of compression and absorption refrigeration systems and refrigeration safety controls used in operating industrial plants and building HVAC systems.

Prerequisite: Successful completion of the Accuplacer Assessment Tests. Reading Comprehension & Sentence Skills at 0600 level, Arithmetic & Algebra at 0500 level. Physics 11 recommended.

POWR 1100 4 credits

Plant Experience 1 (120 Hours Shop)

In this course the students will be at an Industrial site tracing out the operation of different types of systems that a power engineer will work with in Industrial Plants.

Prerequisite: Successful completion of the Accuplacer Assessment Tests. Reading Comprehension &

Sentence Skills at 0600 level, Arithmetic & Algebra at 0500 level. Physics 11 recommended.

PSYC 0500 3 credits

Psychology (4,1,0)

An introductory psychology course at the ABE Advanced level, with an emphasis on active learning, critical thinking, and student involvement in all major topical areas of psychology. This course may be used as credit toward the Adult Graduation Diploma.

Prerequisite: ENGL 0400 or equivalent

Note: This course is taught by the University Preparation Department

PSYC 1110 3 credits

Introduction to Psychology 1 (3,0,0)

Students explore selected topics in contemporary psychology, including the history of psychology, methodology, heredity and learning, physiology and neuropsychology, consciousness, sensation and perception, learning, and memory.

PSYC 1210 3 credits

Introduction to Psychology 2 (3,0,0)

Students explore selected topics in contemporary psychology, including intelligence, development, personality, social psychology, emotion, motivation, and psychopathology.

PSYC 2040 3 credits

Introduction to Biological Psychology (3,0,0)

Students consider the relationship between psychological and biological processes. The anatomy of the brain and neutral activity as well as the endocrine system is examined as it relates to the sensory and motor abilities, learning and memory, language, motivation, states of consciousness and sexual behaviour. Research methods of studying the brain are also discussed.

Prerequisite: PSYC 1110 and PSYC 1210, or permission of the instructor

PSYC 2050 3 credits

Drugs and Behaviour (3,0,0)

This course surveys topics related to drugs and behaviour. Basic mechanisms of pharmacology and the nervous system are introduced in the context of psychoactive drugs. Students discuss the historical and cultural influences that have shaped the roles played by drugs and addiction in Canadian society. Impacts of drug use and abuse on society and the individual are emphasized.

Prerequisite: PSYC 1110 and PSYC 1210 or permission of the instructor

PSYC 2100 3 credits

Analysis of Psychological Data (2,0,2)

Students are provided with a conceptual and practical introduction to types of data analysis most commonly used in psychology. Topics include descriptive statistics, correlation, t-tests, chi-square, and ANOVA. This is a required course for students intending to major in Psychology and recommended for students intending to take Psychology courses numbered in the 3000's or 4000's.

Prerequisite: PSYC 1110 and PSYC 1210 or permission of the instructor

Note: Students may normally receive credit for only one of the following: BIOL 3000, BUEC 2320, MATH 1200, PSYC 2100, SOCI 2710, SOCI 3710, STAT 1200, STAT 2000

PSYC 2110 3 credits

Introduction to Research Methods (3,0,1)

Students are introduced to the procedures and designs used in psychological research and the critical evaluation of research. Topics include the strengths and weaknesses of different approaches to research, including non-experimental, experimental, and quasi-experimental designs; research ethics; measurement; validity of methods; control of extraneous influences; and the drawing of valid conclusions from empirical evidence. This is a required course for students majoring in psychology.

Prerequisite: PSYC 1110 and PSYC 1210 or permission of the instructor

PSYC 2120 3 credits

Introduction to Personality (2,1,0)

Students examine the major theories of personality formation, including psychodynamic, cognitive, humanistic, and behavioural approaches. Students are provided an opportunity to relate this material to personal growth and development.

Prerequisite: PSYC 1110 and PSYC 1210 or permission of the instructor

PSYC 2130 3 credits

Introduction to Developmental Psychology: Childhood and Adolescence (2,1,0)

Students explore the developmental process from conception to adolescence. Theoretical perspectives and research data are examined as they relate to physical, cognitive, and psychosocial aspects of development.

Prerequisite: PSYC 1110 and PSYC 1210 or permission of the instructor

PSYC 2160 3 credits

Introduction to Abnormal Psychology (3,0,0)

Participants examine psychopathology from historical, contemporary and cross cultural perspectives. Students consider evolving models and issues including biological, psychological, and social behavioural approaches to assessment, causes, and treatment of a wide range of disordered behaviours.

Prerequisite: PSYC 1110 and PSYC 1210 or permission of the instructor

PSYC 2210 3 credits

Introduction to Cognition (3,0,1)

This course is a detailed introduction to empirical and theoretical aspects in the following core areas of psychology: human memory, perception, attention, language, and thinking.

Prerequisite: PSYC 1110 and PSYC 1210 or permission of the instructor. PSYC 2110 recommended.

PSYC 2220 3 credits

Introduction to Social Psychology (2,1,0)

Students examine the effects of social environment on human behaviour, attitudes, and personality. Specifically, the topics considered include theories and methods of social psychology, social perceptions, affiliation, attraction and love, aggression and violence, prejudice and discrimination, cooperation and altruism, attitude change, group behaviours, and conformity and social influence.

Prerequisite: PSYC 1110 and PSYC 1210 or permission of the instructor

PSYC 2230 3 credits

Introduction to Developmental Psychology: Adulthood and Aging (2,1,0)

This course is an inquiry into the developmental changes from adolescence onwards with an emphasis on adolescent adjustment, adult maturity and growth, middle age, retirement, old age, dying and death. Current research is examined as it relates to physical, cognitive, and psychosocial development.

PSYC 2300 3 credits

Human Sexuality (3,0,0)

Students examine the full range of sexual attitudes and behaviours as seen in contemporary society. Frank and open discussions in both lecture and small group format is stressed.

Prerequisite: PSYC 1110 and PSYC 1210 or permission of the instructor

PSYC 2910 3 credits

Research Apprenticeship (0,3,0)

Students learn about psychological research by conducting research with a faculty supervisor. Following an apprenticeship model, students engage in collecting data, reviewing the literature, entering and analyzing data, and writing a scientific report.

Prerequisite: PSYC 1110 or 1111

PSYC 3000 3 credits

Psychiatric Clinical Disorders (3,0,0)

Students gain a detailed scientific overview of psychopathology such as mood disorders, anxiety disorders, schizophrenia spectrum disorders, substance abuse, and personality disorders. Students examine the history, definitions and characterisations, and etiology, maintenance and treatment of these disorders.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 OR instructor's written consent

PSYC 3010 3 credits

Disorders Across the Lifespan (3,0,0)

Students gain a detailed scientific overview of psychopathology such as child and adolescent psychopathology, dementia and neurocognitive disorders, sexual disorders, eating disorders, and stress-related disorders. Students examine the history, definitions and characterisations, and etiology, maintenance and treatment of these disorders.

Prerequisites: PSYC 1110 AND PSYC 1210 AND Completion of 45 credits OR Written Consent of the Instructor

PSYC 3020 3 credits

Infancy (3,0,0)

Students examine biological, social, and cognitive development from conception to the third year of life. The transition to parenthood and influences on parenting (including social policy) are a secondary focus. Content includes theoretical and methodological issues, research findings, and practical implications. Students are introduced to important primary sources as well as secondary texts.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 OR Instructor's written consent

PSYC 3030 3 credits

Psychological Testing (3,0,0)

Students learn about the theory and practice of mental measurement, including test reliability and validity, its uses, administration, scoring, and interpretation.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 OR Instructor's written consent

PSYC 3060 6 credits

Principles of Animal Behaviour (3,0,0)(3,0,0)

Students examine animal behaviour from the perspective of evolutionary theory. Among the topics are an introduction to the theory of evolution and behavioural genetics; social systems as ecological adaptations; mating and parental strategies; learning, instincts, and evolution; and the evolution of human behaviour.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 OR Instructor's written consent

Recommended Requisites: PSYC 2110 OR PSYC 2210

Note: Students cannot receive credit for both PSYC 3060 and BIOL 3100

PSYC 3080 6 credits

Social Psychology (3,0,0)(3,0,0)

Students discuss theory and research in the areas of individual social behaviour; social motivation; social attitudes; group interaction; socialization; racial prejudice; and other related topics.

Prerequisite: PSYC 1110 and PSYC 1210 or permission of the instructor

PSYC 3100 6 credits

Clinical Psychology (3,0,0)(3,0,0)

Students are provided a comprehensive overview of clinical psychology. The topics include the role of personality theory in clinical psychology, an overview of descriptive psychopathology, a consideration of issues in diagnosis and classification of disorders, an examination of the techniques used in assessment of intellectual and personality functioning, and a review of various approaches to therapeutic intervention. Areas of clinical psychology research are discussed, in addition to issues of professionalism, and models of training. Students are given a sense of what it means to be a "Clinical Psychologist" today, recent developments in clinical psychology, and future directions in the field.

Prerequisite: One of PSYC 2120, PSYC 2160, PSYC 3000

PSYC 3110 3 credits

Clinical Psychology: Theories and Systems of Psychotherapy (3,0,0)

Students are provided an overview of various psychotherapeutic approaches in the field of clinical psychology. The therapeutic systems and models examined in this course include psychoanalysis, Adlerian psychotherapy, analytic psychotherapy, client-centered therapy, rational emotive behaviour therapy, behaviour therapy, cognitive therapy, existential psychotherapy, Gestalt therapy, and multimodal therapy.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 AND one of PSYC 2160 OR PSYC 3000 OR instructor's written consent

PSYC 3140 3 credits

Health Psychology (3,0,0)

Students will review basic research findings and theory on the relation between psychological factors (including behaviour, emotion, cognitive, personality, and interpersonal relationships) and health. Topics include health-related behaviours such as smoking and drug use, the effects of stressful events on health, methods of coping with stress, the impact of chronic illness on the family, and social support systems.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 OR Instructor's written consent

PSYC 3150 3 credits

Childhood and Adolescence (3,0,0)

Students examine biological, social, and cognitive development from the third year of life through to adolescence. The development of prosocial and antisocial behaviours are a special focus. Content includes theoretical and methodological issues, research findings, and practical implications. Students are introduced to important primary sources as well as secondary texts.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 OR instructor's written consent

Exclusion: Students cannot receive credit for both PSYC 3150 and PSYC 3151

PSYC 3200 3 credits

Theories of Personality 1 (3,0,0)

Students examine psychoanalytic and dispositional theories on the development of personality. Topics include research findings, applications, and limitations with respect to the two approaches.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210

PSYC 3210 3 credits

Theories of Personality 2 (3,0,0)

Students examine environmental and representational theories on the development of personality. Topics include research findings, applications, and limitations with respect to the two approaches.

Prerequisite: PSYC 1110/1210

Note: Students with PSYC 3050 may not take this course for credit

PSYC 3220 3 credits

Adulthood and Aging (3,0,0)

Students learn about human development during adulthood through to old age. Students are provided a background in basic issues, theories, and psychological research regarding adulthood and the aging process.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 OR instructor's written consent

PSYC 3230 3 credits

Principles of Conditioning (3,0,0)

Students examine the procedures and processes involved in Classical (Pavlovian) and Operant (instrumental) conditioning. A majority of the course material is comprised of research findings from animal studies.

Prerequisites: PSYC 1110 AND 1210 AND completion of 45 credits OR permission of the instructor

PSYC 3240 3 credits

History and Systems of Psychology (3,0,0)

Students are provided a broad overview of psychology's history, beginning with the ancient Persians, and progressing through to the mid-twentieth century. Key figures and thinkers are highlighted, and major philosophies and their founders discussed, all within the context of the political and social climate prevalent at the time.

Prerequisite: PSYC 1110 and PSYC 1210, and a minimum of six (6) additional psychology credits. Excluding PSYC 2100, 2110, or 3190

PSYC 3250 3 credits

Community Psychology (3,0,0)

Students will learn about various topics in community psychology. Topics include research methods and social change and intervention strategies within various community settings, such as the legal and justice system, the health care system, the mental health care system, and the educational system.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 OR instructor's written consent

PSYC 3360 3 credits

The Psychology of Language 1 (3,0,0)

Students consider the fundamental psychological abilities underlying human language. Representative topics include animal versus human communication, language processing, lexical representation, and the principles of on-line conversation.

Prerequisite: PSYC 1110/1210 or instructor's written consent. PSYC 2210 recommended.

PSYC 3380 3 credits

Psychology of Emotion (3,0,0)

Students discuss the theories and research on emotion from cognitive, behavioral, physiological, social, and evolutionary perspectives in the discipline of psychology. Students examine where emotions come from, their function, and meaning. Topics include development and communication of emotion, emotions and decision making, emotion regulation, and the relationship between emotion and psychological well-being.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 OR instructor's written consent

PSYC 3390 3 credits

Human Neuropsychology (3,0,0)

Students learn about clinical and experimental approaches to human neuropsychology as a basis for understanding brain-behaviour relationships in both typical and impaired functioning. Students discuss the impacts of brain disorders, including traumatic brain injury, dementia, and tumors. Students distinguish the structure and function of the human brain, with particular emphasis on the cerebral cortex; gain knowledge and understanding of how behaviour can be used to infer brain function; and think critically about key ideas and research findings in neuropsychology.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 OR permission of the instructor.

Recommended requisite: PSYC 2040

PSYC 3400 3 credits

Introduction to Psychology and the Law (3,0,0)

Students examine psychological theories and research to the legal system. Topics covered include the legal system, police investigations, jury decision-making, eyewitness identification and testimony, expert evidence, and sentencing.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 OR permission of the instructor

PSYC 3410 3 credits

Forensic Psychology (3,0,0)

Students examine the application of clinical psychology (assessment and intervention) to the field of forensics. Topics covered include fitness to stand trial; Not Criminally Responsible By Reason of Mental Disorder (NCRMD); psychopathy, risk assessment and the prediction of dangerousness; Dangerous Offender/Long Term Offender assessments; criminal profiling; parental capacity assessments; assessment and treatment of special populations; and professional responsibilities and ethical issues.

Prerequisite: PSYC 1110 and PSYC 1210, and one of PSYC 2160, PSYC 3000, PSYC 3010 or PSYC 3100, and completion of 45 credits or permission of instructor

PSYC 3510 3 credits

Sensation and Perception 1 - Visual Processes (3,0,0)

Students learn about the basic research findings and models for visual sensation and perception. Topics include the perception of brightness, contrast, colour, objects, depth, size, and movement. In addition, students discuss the physiological mechanisms of the visual system.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 OR instructor's written consent

Note: Students cannot receive credit for both PSYC 3510 and PSYC 3130

PSYC 3520 3 credits

Sensation and Perception 2 (3,0,0)

Students examine basic research findings and models for auditory, somatosensory, olfactory, and gustatory sensation and perception. Topics include the physics of sound, physiology of the auditory system, basic sound perception, auditory scene analysis, music perception, language perception, physiology of touch and pain, and the physiology of smell and taste.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 Or instructor's written consent.

Note: Students who have credits for PSYC 3130 may not receive additional credit for this course.

PSYC 3540 3 credits

Cognition 1: Attention and Memory (3,0,0)

Students learn about research findings and models of attention and memory, both past and present. Topics include basic attentional processes and models, short-term and working memory, long-term processes, semantic and episodic distinctions, physiology of memory, and false memory.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 OR permission of the instructor

Note: Students who have credits for PSYC 3090 may not receive additional credit for this course

PSYC 3550 3 credits

Cognition 2: Language and Thought (3,0,0)

Students learn about research findings and models for various aspects of language and thought. Topics include language processing, reasoning, decision-making, problem-solving, and the theoretical nature of consciousness.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 OR permission of the instructor

Note: Students who have credits for PSYC 3090 may not receive additional credit for this course

PSYC 3560 3 credits

Psychopharmacology (3,0,0)

Students gain a detailed introduction to psychoactive drugs at behavioural, neural and cellular levels of examination.

Students learn to define and understand how drugs are processed by the body and how they interact with neurotransmitter systems. Students identify and discuss the major neurotransmitters; gain insight into the therapeutic use of psychotropic drugs to treat affective disorders, anxiety disorders, and schizophrenia; understand the properties of major classes of abused drugs (CNS depressants, stimulants, opiates, hallucinogens, etc.); and think critically about pharmaceuticals and the pharmaceutical industry.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 AND one of PSYC 2040 OR BIOL 1050 OR BIOL 1110 OR instructor's written consent

PSYC 3570 3 credits

Physiology of Motivation and Emotion (3,0,0)

Students learn about the concepts of motivation and emotion, emphasizing neural and endocrine mechanisms. Students explore the contributions of human and animal research in understanding temperature regulation, hunger and thirst, sleep and biological rhythms, exploration and curiosity, reproductive and parental behaviour, substance abuse, aggression, stress, positive and negative emotions, and feelings. Interaction between physiology and external influences are emphasized, as well as causal and functional explanations. Students think critically about key ideas and research findings in motivation and emotion, and consider how they can be applied practically to issues experienced in their own lives.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 AND one of PSYC 2040 OR BIOL 1050 OR BIOL 1110 OR permission of the instructor

Note: Students may not take this course if they have credit for the former PSYC 3040 or PSYC 3070.

PSYC 3580 3 credits

Physiology of Learning and Memory (3,0,0)

Students learn about the different types of learning and memory, emphasizing neural mechanisms. Students discuss the interplay of human and animal research (including that with invertebrates) in understanding synaptic plasticity involving long-term potentiation and depression, perceptual learning, classical and instrumental conditioning, and relational learning. Learning disabilities, memory impairment, and recovery from brain injury are also considered.

Prerequisites: Completion of 45 credits AND PSYC 1110 AND PSYC 1210 AND One of PSYC 2040 OR BIOL 1050 OR BIOL 1110 OR permission of the instructor.

Note: Students who have credits for PSYC 3040 may not receive additional credit for this course.

PSYC 3610 3 credits

Research Methods and Statistics for Psychology (2,0,1)

Students learn about design considerations and statistical methods in an integrated way. Students focus on analysis of research designs with multiple independent variables and a single dependent variable, though the material covered will not be limited to these types of designs. Topics covered include reliability, validity, power, sampling, t-tests, correlation, regression, analysis of variance, nonparametric procedures, and sampling.

Prerequisites: PSYC 2100 with a minimum B AND 2110 with a minimum B AND Completion of 45 credits or permission of the instructor

PSYC 3710 3 credits

Special Topics in Psychology 1 (3,0,0)

In this intermediate-level special topics course, students study a topic related to either cognition, sensation and perception, or neuroscience. The specific topic will be chosen by the instructor and approved by the Department Chair.

Prerequisite: PSYC 1110 and PSYC 1210 and 45 credits OR Permission of the Instructor

PSYC 3720 3 credits

Special Topics in Psychology 2 (3,0,0)

In this intermediate-level special topics course, students study a topic related to either social psychology, personality, developmental psychology, clinical psychology, or applied psychology. The specific topic will be chosen by the instructor and approved by the Department Chair.

Prerequisite: PSYC 1110 and PSYC 1210 and 45 credits OR permission of the instructor

PSYC 4100 3 credits

Advanced Research Apprenticeship (0,3,0)

Students apply research methods and statistics to an advanced research project supervised by a faculty member.

Prerequisites: PSYC 3190 OR 3610 AND Completion of 90 credits AND GPA of 3.0+

PSYC 4210 3 credits

Advanced Topics in Psychology (3,0,0)

In this advanced special topics course, students study a topic related to fundamental research in psychology (for example, in neuroscience, cognition, social psychology, or developmental psychology). The specific topic will be chosen by the instructor and approved by the Department Chair. As a writing-intensive course, students further strengthen their skills in scientific reasoning, psychological research, and innovative thinking.

Prerequisite: PSYC 1110 and PSYC 1210 and PSYC 2100 and PSYC 2110 and 60 Credits and 6 credits of 3000 level Psychology courses or permission of the instructor

PSYC 4220 3 credits

Advanced Topics in Applied Psychology (3,0,0)

In this advanced special topics course, students study a topic related to applied psychology (for example, clinical psychology, forensic psychology, or environmental psychology). The specific topic will be chosen by the instructor and approved by the Department Chair. As a writing-intensive course, students further strengthen their skills in scientific

reasoning, psychological research, and innovative thinking.

Prerequisite: PSYC 1110 and PSYC 1210 and PSYC 2100 and PSYC 2110 and 60 Credits AND 6 credits of 3000 level Psychology courses or Permission of the instructor

PSYC 4400 6 credits

Directed Studies in Psychology (3,0,0) or (3,0,0)(3,0,0)

Students are provided an opportunity to engage in a directed investigation of a problem, and are required to complete a written report of their findings.

Prerequisite: Satisfactory standing and permission from a faculty member who is prepared to supervise the investigation

Note: This course cannot be counted towards a major (i.e., towards minimum 30 credits)

PSYC 4990 6 credits

Honours Thesis in Psychology

Central to this course is an original research project conducted by students in the Psychology Honours Program of the Bachelor of Arts (B.A.) degree, to be completed under the direction of a faculty member in the Department of Psychology. Students strengthen their research, writing and analytical skills in preparation for graduate or professional schools, many of which require an Honours degree. Students accepted into the Psychology Honours Program must register in this course for both the Fall and Winter semesters of their final academic year.

Prerequisites: Acceptance into the Psychology Honours Program AND indentification of a supervisor for the thesis AND PSYC 1110 AND PSYC 1210 AND PSYC 2100 AND PSYC 2110 AND one of PSYC 3610 OR PSYC 3190, each with a minimum B, AND completion of 90 credits OR permission of the Honours Committee

RCAR 1000 1 credits

Residential Construction - Foundation

Students are introduced to theory and gain hands-on experience building a residential home. Topics include: safe work practices, documentation and organizational skills, tools and equipment, survey instruments, performing a site layout, building a concrete framework, framing for residential housing, and building science.

RESP 1580 3 credits

Principles and Application of Respiratory Therapy Equipment - 1 (3,0,1.5)(L)

This course introduces students to a wide variety of Respiratory Therapy equipment. The learner will develop a thorough understanding of the function and patient application of this equipment. Areas covered in this course include: infection control, compressed gas manufacture, storage and piping systems, gas delivery systems, oxygen air blenders, oxygen therapy devices, humidity and aerosol therapy.

Prerequisite: Admission to the Respiratory Therapy Diploma or Respiratory Therapy Dual Credential program

Required Lab: RESP 1580L

RESP 1650 3 credits

Introduction to Mechanical Ventilation (3,0,0)

Students focus on the foundations of mechanical ventilation including lung mechanics, various modes and adjuncts applied during mechanical ventilation, and how they interrelate. The course also addresses cardio-pulmonary physiology as it relates to mechanical ventilation, and provides the background a student requires to progress into the mechanical ventilators course.

Prerequisite: Admission to Semester 2 of the Respiratory Therapy program

RESP 1680 3 credits

Principles and Application of Respiratory Therapy Equipment - 2 (3,0,3)(L)

A continuation of RESP 1580, including controlled environments, oxygen controlling devices, artificial airways, resuscitators, oxygen analyzers, non-invasive monitors, volume and flow measuring devices, suction, quality assurance and time unit management.

Prerequisite: Admission to the 2nd semester of the Respiratory Therapy program.

Required Lab: RESP 1680L

RESP 1690 3 credits

Cardiopulmonary Anatomy and Physiology (4,0,0)

This course will focus on the anatomy of the respiratory system and cardiopulmonary physiology. Cardiac and pulmonary physiological processes will be related to diagnostics, therapy and technology. This course will assist in providing the background a student requires to progress into the comprehensive curriculum of Respiratory Therapy.

Prerequisite: Admission to the Respiratory Therapy program

Corequisite: BIOL 1590 or equivalent

RESP 2500 3 credits

Pathophysiology 1 (4,0,0)

This course will deal with disordered function of various body systems excluding the respiratory system.

Prerequisite: Admission to 3rd semester of the Respiratory Therapy Program

RESP 2510 3 credits

Pharmacology (4,0,0)

Students are provided with the fundamentals of pharmacology, an overview of drug classifications that indirectly affect the respiratory system, and an in-depth survey of the cardiopulmonary drug classifications. Significant emphasis is placed on the drugs used in the treatment of asthma, COPD, tobacco cessation and the cardiovascular system. The content and material studied in this course is applied and reinforced in subsequent courses.

Prerequisite: Admission to Semester 2 of the Respiratory Therapy program

Corequisite: BIOL 1692 or equivalent and RESP 1650

RESP 2540 3 credits

Client-Centered Education and Community Health (2,0,0,2P)

Students develop foundational health education skills that are required to effectively educate individuals in a client centered approach within a health care environment. The learner will explore evidence based needs assessment, teaching, and evaluation processes in a clinical environment, with a specific focus on diagnostics and therapeutics of sleep disorders.

Prerequisites: Admission to the 3rd semester of the Respiratory Therapy Program.

RESP 2550 3 credits

Mechanical Ventilation (4,0,3)(L)

Mechanical Ventilation is a form of life support for the critically ill patient. Students are instructed in the fundamentals of mechanical ventilators and ventilatory modes. Ventilator-patient interactions are explored in the context of specific lung conditions and patient situations.

Prerequisite: Admission to the 3rd semester of the RT diploma program or the 5th semester of the RT Dual Credential program.

Required Lab: RESP 2550L

RESP 2570 3 credits

Blood Gas Analysis (4,0,2)(L)

This course provides the student with specific information concerning the collection, analysis, clinical interpretation, and clinical applications of blood gases. The student learns the application of invasive and non-invasive technology in the assessment of blood gases.

Prerequisite: Admission to Semester 3 of the Respiratory Therapy Diploma program or Semester 5 of the Respiratory Therapy Dual Credential program

RESP 2590 3 credits

Patient Assessment (3,0,2)(L)

This course provides the student with the knowledge and skills that are necessary for an optimum RT-patient relationship. These include: good patient assessment skills, communication and documentation skills, and the assessment of diagnostic data. The student develops good clinical reasoning skills which promote effective patient care.

Prerequisite: Admission to the 3rd semester of the Respiratory Therapy Program

Required Lab: RESP 2590L

RESP 2600 3 credits

Respiratory Pathophysiology (3,0,0)

Students explore various respiratory disorders in terms of definition, etiology, pathogenesis, pathology, pathophysiology, clinical manifestations, diagnosis and treatment.

Prerequisite: Admission to the 4th semester of the Respiratory Therapy Program

RESP 2620 3 credits

Anaesthesia (3,0,1)(L)

The student gains the knowledge required to assist in the delivery of anesthesia. This includes: a working knowledge of the equipment utilized in this area; an understanding of the technical and clinical aspects of anesthesia; knowledge of the techniques for anesthetic administration; and the importance of maintaining safe anesthetic practices.

Prerequisite: Admission to Semester 4 of the Respiratory Therapy Program

Required Lab: RESP 2620L

RESP 2630 3 credits

Perinatal and Pediatric Respiratory Care (4,0,2)(L)

Students develop the knowledge and skills required to work in a perinatal and pediatric setting. Various topics include pregnancy, delivery and assessment of the newborn; acute care of the 'at risk' newborn; perinatal and pediatric physiology and pathophysiology; and the respiratory care technology used in the monitoring and treatment of neonatal and pediatric disorders. Certification in the Neonatal Resuscitation Program (NRP) occurs in this course.

Prerequisite: Admission to Semester 4 of the Respiratory Therapy Diploma program or Semester 5 of the Respiratory Therapy Dual Credential program

Required Lab: RESP 2630L

RESP 2650 3 credits

Application of Mechanical Ventilation (3,0,2)(L)

This course provides an overview of the clinical application of mechanical ventilation. Students will learn how to establish the need for, initiate, maintain and effectively withdraw mechanical ventilation. Upon completion of this course, students will be able to optimize ventilatory care for patients, depending upon subjective and objective patient assessment

Prerequisite: Successful admission into the pre-clinical semester of the Respiratory Therapy Program

Required Lab: RESP 2650L

RESP 2660 3 credits

Chronic Disease Management (2,0,0,2P)

Students explore the application of education principles related to Asthma, Chronic Obstructive Pulmonary Disease and Tobacco use disorder. Students investigate the assessment, diagnosis, and therapeutics each of these chronic diseases, and apply these principles in a clinical environment.

Prerequisite: RESP 2540

RESP 2680 3 credits

Pulmonary Function (3,0,1)(L)

Students gain a thorough understanding of the importance of pulmonary function (PF) testing, the knowledge to interpret PF data, and the practical experience of performing these tests according to the American Thoracic Society (ATS) criteria. The importance of quality control is emphasized and applied in the PF lab. Students focus on spirometry, diffusion testing, lung volume testing, airway resistance, and bronchoprovocation testing.

Prerequisite: Admission to Semester 3 of the Respiratory Therapy Diploma program or Semester 5 of the Respiratory Therapy Dual Credential program.

Required Lab: RESP 2680L

RESP 2710 3 credits

Application of Respiratory Therapy Practice (4,0,3)(L)

A case-based approach to Respiratory Therapy practice involves the exploration of pertinent clinical studies to facilitate the education of Respiratory Therapy students in preparation for the clinical portion of the 3 or 4 year program. This course will strengthen the student's ability to understand the assessment and treatment of patients in various situations requiring respiratory care services. This course will allow the student to evolve their knowledge and clinical skills via lectures, laboratory exercises and simulations which are designed to enhance critical thinking skills. All content of this course will be based on current health care policies, procedures and evidence-based practice that is supported in research literature.

Prerequisite: Successful admission into the pre-clinical semester of the Respiratory Therapy Program.

Required Lab: RESP 2710L

RESP 2720 3 credits

Professional Issues in Health Care (3,0,0)

This course will help the student develop the professional skills needed to work effectively within a health care environment. This course is topic driven yet anchored to historical issues for the respiratory therapist practicing in the Canadian health care system. Today's graduate must possess effective oral and written communication skills, work effectively within a team, provide clear patient and public education, and demonstrate the ability to problem-solve.

Prerequisite: Admission to the Respiratory Therapy program

RESP 3010 3 credits

Sleep Therapy and Ambulatory Diagnostics for Obstructive Sleep Apnea Syndrome (45 hours)

Students are introduced to current ambulatory diagnostic tools and techniques used in the diagnosis, treatment, and ongoing assessment of Obstructive Sleep Apnea Syndrome. This course focuses primarily on patient assessment, current therapeutic techniques, and the technology used in clinical practice outside the hospital laboratory.

Prerequisite: Completion of Year 1 of TRU's Respiratory Therapy program or completion of a health science program and employment in the field of sleep medicine. Applicants who do not meet the normal required prerequisites may seek acceptance for registration from the Allied Health Department Chairperson

RESP 3700 3 credits

Evidence Based Practice (3,0,1)(L)

This course in evidence based practice will help to make the student a more active and knowledgeable member of the health care team. Respiratory disease diagnosis, care and monitoring in the clinical setting requires a great deal ofknowledge guided by published evidence. This course improves the efficient use of published evidence in guiding assessment, diagnosis and treatment of patients with respiratory disease. . The student will receive lectures andseminars. which will span the entire realm of published sources in respiratory literature

Prerequisite: Completion of 2 years of a health related program or with permission from the department Chair.

RFAC 1000

Refrigeration and Air Conditioning Mechanic Apprenticeship Level 1 (150 hrs)

This course prepares students to plan and install refrigeration and air conditioning equipment.

Prerequisite: Industry Training Authority (ITA) registered apprentice.

RFAC 1510 2 credits

Refrigeration and Air Conditioning Math Principles (30 hrs)

This course introduces the math principles used by a Refrigeration and Air Conditioning Mechanic. Students will perform and apply these calculations to various required shop projects.

Prerequisite: Grade 10 required, Grade 12 preferred Successful completion of Accuplacer Reading Comprehension, Sentence Skills, Arithmetic & Algebra tests at the 040 Level.

RFAC 1520 3 credits

Workplace Health and Safety Procedures (60 Hours)

This course introduces the student to hazards they could encounter working as Refrigeration and Air Conditioning Mechanic. They will review the required Worksafebc rules and regulations as well the proper handling of various refrigerants used in cooling systems.

Prerequisite: Grade 10 required, Grade 12 preferred Successful completion of Accuplacer Reading Comprehension, Sentence Skills, Arithmetic & Algebra tests at the 040 Level.

RFAC 1530 2 credits

Basics of Welding and Brazing Techniques (30 Hours)

This course teaches the student the proper use of air-acetylene and oxy-acetylene welding used for cutting, brazing and soldering equipment for refrigeration and air conditioning installations.

Prerequisite: Grade 10 required, Grade 12 preferred Successful completion of Accuplacer Reading Comprehension, Sentence Skills, Arithmetic & Algebra tests at the 040 Level.

RFAC 1540 3 credits

Refrigeration Tools and Equipment (60 Hours)

This course describes the proper use of hand tools, test equipment and the proper use of reclaiming equipment used for charging and evacuation of different refrigerants.

Prerequisite: Grade 10 required, Grade 12 preferred Successful completion of Accuplacer Reading Comprehension, Sentence Skills, Arithmetic & Algebra tests at the 040 Level.

RFAC 1550 3 credits

Introduction to Mechanical Drawings (60 Hours)

This course introduces the students to the use of drafting tools, typical drawing scales, drawing symbols used in the trade and interpreting mechanical drawings and specifications.

Prerequisite: Grade 10 required, Grade 12 preferred Successful completion of Accuplacer Reading Comprehension, Sentence Skills, Arithmetic & Algebra tests at the 040 Level.

RFAC 1560 4 credits

Electrical Concepts, Circuit Wiring and Analysis (120 Hours)

This course introduces students to the fundamentals of DC and AC electrical theory, circuits and wiring as well as single-phase and three-phase power characteristics.

Prerequisite: Grade 10 required, Grade 12 preferred Successful completion of Accuplacer Reading

Comprehension, Sentence Skills, Arithmetic & Algebra tests at the 040 Level.

RFAC 1570 3 credits

Electrical Motor Theory (60 Hours)

This course introduces students to the operation of motors and the analysis and causes of motor failure used for refrigeration and air conditioning equipment.

Prerequisite: Grade 10 required, Grade 12 preferred Successful completion of Accuplacer Reading Comprehension, Sentence Skills, Arithmetic & Algebra tests at the 040 Level.

RFAC 1580 6 credits

Refrigeration Fundamentals, Systems and Components (190 Hours)

This course introduces the students to the properties of refrigerants, the basic components that make up a refrigeration system and the basic operation of a mechanical refrigeration cycle.

Prerequisite: Grade 10 required, Grade 12 preferred Successful completion of Accuplacer Reading Comprehension, Sentence Skills, Arithmetic & Algebra tests at the 040 Level.

RFAC 1590 1 credits

Refrigeration and Air Conditioning Exam Review (15 Hours)

In this course the students will prepare and write the first year Refrigeration and Air Conditioning Mechanic exam.

Prerequisite: Grade 10 required, Grade 12 preferred Successful completion of Accuplacer Reading Comprehension, Sentence Skills, Arithmetic & Algebra tests at the 040 Level.

RFAC 1000

Refrigeration and Air Conditioning Mechanic Apprenticeship Level 1 (150 hrs)

This course prepares students to plan and install refrigeration and air conditioning equipment.

Prerequisite: Industry Training Authority (ITA) registered apprentice.

RFAC 2000

Refrigeration and Air Conditioning Mechanic Apprenticeship Level 2 (150 hrs)

This course prepares students to plan and install refrigeration and air conditioning equipment.

Prerequisite: Industry Training Authority (ITA) registered apprentice and successful completion of Level 1.

RFAC 3000

Refrigeration and Air Conditioning Mechanic Apprenticeship Level 3 (200 hrs)

This course prepares students to commission refrigeration and air conditioning systems.

Prerequisite: Industry Training Authority (ITA) registered apprentice and successful completion of Level 1 and Level 2.

RFAC 4000

Refrigeration and Air Conditioning Mechanic Apprenticeship Level 4 (200 hrs)

This course prepares students to plan, install, maintain, service, and commission Refrigeration and AirConditioning (HVAC) equipment as well as prepares the student to write their national Trades Qualification exam.

Prerequisite: Industry Training Authority (ITA) registered apprentice and successful completion of Level 1, Level 2 and Level 3.

RTCL 3040 8 credits

Neonatal and Pediatrics (8 weeks)

This course is designed to assist the student in the development of skills, and comprehensive understanding of Neonatal/Pediatric Respiratory Care. At the completion of this segment, the student will be expected to funtion in the capacity of a Respiratory Therapist.

Prerequisite: Successful completion of the academic portion of the Respiratory Therapy program

RTCL 3110 19 credits

Respiratory Therapy Clinical (Level 1) (22 weeks)

Level 1 experience is designed to allow the student to gain exposure to all clinical rotations. The student will function under the supervision of a Respiratory Therapist. Successful completion of this segment requires meeting the objectives listed.

Prerequisite: Successful completion of the academic portion of the Respiratory Therapy program

RTCL 3120 18 credits

Respiratory Therapy Clinical (Level 2) (17 weeks)

Level 2 experience is designed to allow the student increased exposure in all Level 1 areas. The student will be expected to function in the capacity of a Respiratory Therapist at the completion of Level 2. Successful completion of this segment requires meeting the objectives listed.

Prerequisite: Successful completion of the academic portion of the Respiratory Therapy program

RTCT 3040 2 credits

Respiratory Therapy Clinical Theory (Neonatal and Pediatrics)

This course consists of a series of academic half-days (over a six- to eight-week period) dedicated to the review and examination of didactic material related to clinical practice in the neonatal and pediatric care setting. Students are provided a comprehensive overview and integration of all program curriculum, including a combination of lectures, case studies and seminars presented by therapists, physicians and other health professionals. The Program Clinical Coordinator is responsible for course continuity. The B.C.C.H. Clinical Site Coordinator is responsible for on-site delivery and organization.

Prerequisite: Successful completion of the academic portion of the Respiratory Therapy program.

RTCT 3110 3 credits

Respiratory Therapy Clinical Theory (Level 1)

This course consists of a series of academic half-days (over a 24-week period) dedicated to the review and examination of didactic material related to clinical practice in the adult care setting. Students are provided a comprehensive overview and integration of all program curriculum, including a combination of lectures, presentations, and seminars presented by students, therapists, physicians, and other health professionals. The Program Coordinator is responsible for course continuity. The Clinical Site Coordinators are responsible for on-site delivery and organization.

Prerequisite: Successful completion of the academic portion of the Respiratory Therapy program

RTCT 3120 3 credits

Respiratory Therapy Clinical Theory (Level 2) (3,0,0)

This course consists of a series of academic half-days (over an 18-week period) dedicated to the review and examination of didactic material related to clinical practice in the adult care setting. Students are provided a comprehensive overview and integration of all three years of the program, including a combination of lectures, case studies, and seminars presented by therapists, physicians and other health professionals. The clinical coordinator is responsible for course continuity. The site coordinators are responsible for on-site delivery and organization.

Prerequisite: Successful completion of the academic and clinical portions of Level 1

SAWF 1000 6 credits

Saw Filer Level 1 (180 hours)

This course covers the fundamentals required to work in the Saw Filer trade. Students will learn how to inspect, install, adjust, operate, maintain and repair saw sharpening equipment.

Prerequisite: Admission into the Saw Filer program

SAWF 2000 4 credits

Circular Saw Filer (120 hours)

This course covers circular saws including inspection for plumb, level and proper tension. Students will also learn tooth geometry, how to correct defects, maintain and align saw machine centers.

Prerequisite: Admission into the Saw Filer program and completion of SAWF 1000 or equivalent

SAWF 3000 4 credits

Saw Filer Level 3 (120 hours)

This course covers band saws including inspection for plumb, level and proper tension. Students will also learn tooth geometry, how to correct defects, maintain and align saw machine centers.

Prerequisite: Admission into the Saw Filer program and completion of SAWF 2000 or equivalent

SCMN 3320 3 credits

Supply Chain Management (3,0,0)

Students examine the strategic fit of supply chains with organizational goals; this course lays the foundation for advanced study in the field. Topics include an introduction to supply chain management; supply chain strategy; demand management, inventory management; inventory modeling; supply chain network design and facility location; warehouse management; and transportation management.

Prerequisite: ACCT 2250; MIST 2610; ECON 2330 or equivalent

Note: Students cannot receive credit for both BBUS 3320 and SCMN 3320

SCMN 3330 3 credits

Procurement Management (3,0,0)

Students explore the methods used by organizations to acquire the raw materials, components, supplies, equipment, facilities, and services needed to operate. Topics include strategic procurement, procurement process, competitive bidding and negotiation, procurement and supply management organization, make or buy, price and cost analysis, quality and inventory, supplier selection, supplier development and certification, services procurement, e-Procurement, and involving users and suppliers.

Prerequisite: SCMN 3320

Note: Students cannot receive credit for both BBUS 4300 and SCMN 3330

SCMN 4310 3 credits

Operations Management (3,0,0)

Students study the design, planning, establishment, operation, control and improvement of all activities in the creation of a firm's products. Practices in both manufacturing and service businesses are explored. Topics include an introduction to operations management; project management; total quality management; product and process design; job design and measurement; facility layout and assembly line balancing; material requirement planning and production scheduling; capacity management; inventory management; and decision tools including simulation, linear programming and decision analysis.

Prerequisite: MATH 1170 or equivalent; SCMN 3320

Note: Students cannot receive credit for both BBUS 3331 and SCMN 4310

SCMN 4320 3 credits

Logistics and Transportation (3,0,0)

Students examine the movement of raw materials and parts from the supplier to the manufacturer and the movement of finished products to the final consumer. An effective integration and optimization of each step in the process is emphasized. Topics include an introduction to business logistics; logistics strategy and planning; logistics product; third and fourth party logistics providers; customer services and order processing; transportation fundamentals including transportation modes, inter-model services, pricing, and other shipping terms and documentation; transportation decision making and modeling; warehouse and storage management; and distribution requirement planning.

Prerequisite: MATH 1170 or equivalent; SCMN 3320

Note: Students cannot receive credit for both BBUS 4320 and SCMN 4320

SCMN 4390 3 credits

Selected Topics in Supply Chain Management (3,0,0)

Students examine a selection of contemporary issues in supply chain management. Topics include strategic supply chain management; global supply chains; sustainable supply chains; service supply chains; supply chain resilience; reverse supply chains; quality in supply chain management; modern manufacturing methods; product design and encouraging technical innovation; process reengineering and competitive benchmarking; and supply chain optimization.

Prerequisite: SCMN 3330; SCMN 4310; SCMN 4320

Note: Students cannot receive credit for both BBUS 4390 and SCMN 4390

SENG 1110 3 credits

Programming for Engineers-1 (3,0,2)(L)

Students are introduced to the concepts of computer programming with specific emphasis on engineering problems and applications. Students learn computer programming as a part of engineering process. Students conceptualize the programming approach in line with engineering profession by following design, implement and testing using specifications. Students explore C++ programming basics, statements, syntax, control structures, functions, and types of arrays.

Prerequisite: Admission to either Electrical, Computer, Software Engineering, or Engineering Transfer Program OR Engineering Program Advisor's permission.

SENG 1210 3 credits

Programming for Engineers-2 (3,0,2)(L)

Students are introduced to the concepts of object-oriented programming in designing, implementing and testing engineering problems. Students learn the principles of inheritance and polymorphism in designing of methods and

classes in object-oriented approach. Students explore the techniques of reading and writing data to file, exceptional handling, pointers, and dynamic memory management, vectors, stacks and recursion.

Prerequisite: SENG 1110 with a minimum grade of C

SENG 3110 3 credits

Algorithms & Data Structure (3,0,2)(L)

Students are introduced to the concepts of evaluating complexity analysis of the algorithms. Students learn various data structure techniques including lists, stacks, queues, tree, and graphs and its application to engineering discipline. Students explore various sorting and searching algorithms.

Prerequisite: SENG 1210 with a minimum grade of C AND STAT 2230 with a minimum grade of C

SENG 3120 3 credits

Software Engineering Design: Process & Principles (3,0,2)(L)

Students learn the concept of software engineering design process and principles in the context of product development and evaluation. Students are introduced with various modeling techniques of UML used in software design process to illustrate modularity and decomposition, components and their interface. Students learn to model the static and dynamic behavior of the software product. Students explore theoretical aspects, and practical techniques to develop software architecture. Students explore the concept of design patterns.

Prerequisite: SENG 3110 with a minimum grade of C

SENG 3130 3 credits

Software Requirements & Specifications (3,0,2)(L)

Students are introduced to the concepts of software requirements engineering process from elicitation to documentation. Students explore requirements prioritization, trade-off analysis, negotiation, risk analysis, and impact analysis. Students learn to identify functional, non-functional and quality related requirements of software projects in the context of varying application domains and development methodologies.

Prerequisite: CENG 2010 with a minimum grade of C AND ENGR 2300 with a minimum grade of C

SENG 3210 3 credits

Applied Software Engineering (3,0,2)(L)

Students learn various software process models and understand the commonalities and variabilities among them and understand methodologies to assess the software process.

Students explore the concepts of software quality assurance and learn the measuring techniques to assess software product quality. Students are introduced to the concepts of how to manage the software source code and changes, build and software release management process.

Prerequisite: SENG 3110 with a minimum grade of C

SENG 4000 3 credits

Selected Topics in Software Engineering (3,0,2)(L)

Students are introduced to selected advance and current topics in Software Engineering at the undergraduate level. Due to the rapidly changing field of software engineering, the course content varies from semester to semester depending upon the growth in new technologies and research interests of faculty and students.

Prerequisite: Third year standing in an engineering program

SENG 4100 6 credits

Software Engineering Design Project (3,0,0)(3,0,0)

The course covers the broader aspects of software to produce quality product, which is within budget, on time and has desirable level of reliability. Students learn the fundamental idea of what makes a good design as a key aspect within software engineering. Students explore working in team, creativity and aspects of entrepreneurial skills to apply software engineering methods and techniques into real practice. Students either individually or form two- or four-person software teams to analyze, design, build, test, and evaluate a software system to meet the requirements of a client.

Prerequisite: SENG 3120 with a minimum grade of C

SENG 4110 3 credits

Software Testing & Verification (3,0,2)(L)

Software systems are becoming increasingly complex and there is a growing awareness that comprehensive software testing is required to deal with not only this growing complexity but also to increase the quality and reliability.

Students explore theoretical aspects, and practical techniques that can be used to test software systems at unit, module, subsystem, and at system level. Students learn the important phases of testing and the significance of each phase when testing different types of software. Students are introduced to the techniques of static and dynamic analysis, functional, data, class, integration, user interface testing.

Prerequisite: SENG 3210 with a minimum grade of C

SENG 4120 3 credits

Software Model Engineering & Formal Methods (3,0,2)(L)

Software system is critical to many aspects of our lives. Students explore the mathematical foundations of software modeling including propositional logic, proof theory and semantics of predicate logic, and extended finite state machines. Students learn model verification using linear-time temporal logic, branching-time logic, and explore various model-

checking algorithms. Students are introduced to the techniques of program verification, partial and total correctness, proof calculus, modal logics, and binary decision trees. Students gain hands-on experience using a tool for model checking.

Prerequisite: SENG 3210 with a minimum grade of C

SENG 4130 3 credits

Software Design Patterns (3,0,2)(L)

Reusability is a key factor in modern software development. Students are introduced to software design patterns. Students explore different design patterns and understand the solution that pattern is providing in a specific context. Students learn strategy, observer, factory, singleton, command, adapter, facade, template method, iterator, composite, and state patterns in implementation of a programming problem.

Prerequisite: SENG 3120 with a minimum grade of C

SENG 4140 3 credits

Software Quality Engineering (3,0,2)(L)

Software quality management ensure that quality principles are applied to the software development. Students are introduced to the basic concepts of software quality management and economic impact of low-quality and high-quality software. Students explore economic value of software quality, software Defect detection, removal, and prevention techniques. Students learn measuring the application structural quality and post-release defect removal. Students are introduced to the industry standards of software quality, including ISO 9001 and software process assessment and improvement techniques.

Prerequisite: SENG 3210 with a minimum grade of C

SENG 4220 3 credits

Software Security Engineering (3,0,2)(L)

Students explore the various software security issues in the context of software development lifecycle. Students are introduced to set of processes, policies, and techniques that are appropriate for software security management, maturity, and risk tolerance. Students learn how to incorporate practical security techniques into all phases of the development lifecycle. Students learn writing secure software application by exploring various commonly known security flaws.

Prerequisite: SENG 3210 with a minimum grade of C

SENG 4230 3 credits

Software Estimation (3,0,2)(L)

Students learn and apply the basic concepts of estimation techniques in software product development. Students are introduced to the techniques to estimate various aspects of requirements, prototypes, design, inspections, and coding. Students explore the role of estimation in configuration control, change management, testing and management of software projects.

Prerequisite: SENG 3130 wtih a minimum grade of C

SERV 3000 3 credits

Service Learning (Third Year) (0,0,5P)

Third year students are provided with supervised service learning opportunities. Academic service learning provides a venue for senior-level students to share their knowledge and skills with the community through approved community-based projects. Service learning projects may be initiated by students, community members, groups, agencies, organizations, and faculty. To qualify for service learning credit, a faculty member must authorize the course and then agree to supervise and evaluate the project. Students may receive service learning credit by working individually or in cohorts of up to 5 students on the same community project. Students meet with the faculty supervisor for initial consultation and/or training during the first week of classes, and are expected to keep the faculty supervisor informed about the project on a regular basis. Upon completion of the course or project, students present the faculty supervisor with an evaluation form completed by the community group, agency, or organization served, and a combination of the following: a research paper, report, or document; a student journal or activity log; a presentation, performance, or exhibition.

Prerequisite: Students must have completed 60 credits

Note: Criteria for authorizing service level credit: the student's service learning must demonstrate civic participation, community involvement, formal critical reflection. In addition, the project must involve students (normally 3 - 5 hours per week) in an organized community service that addresses local needs.

SERV 4000 3 credits

Service Learning (Fourth Year) (0,0,5P)

Fourth year students are provided with supervised service learning opportunities. Academic service learning provides a venue for senior-level students to share their knowledge and skills with the community through approved community-based projects. Service learning projects may be initiated by students, community members, groups, agencies, organizations, and faculty. To qualify for service learning credit, a faculty member must authorize the course and then agree to supervise and evaluate the project. Students may receive service learning credit by working individually or in cohorts of up to 5 students on the same community project. Students meet with the faculty supervisor for initial consultation and/or training during the first week of classes, and are expected to keep the faculty supervisor informed about the project on a regular basis. Upon completion of the course or project, students present the faculty supervisor with an evaluation form completed by the community group, agency, or organization served, and a combination of the following: a research paper, report, or document; a student journal or activity log; a presentation, performance, or exhibition.

Prerequisite: Students must have completed 90 credits

Note: Criteria for authorizing service level credit: the student's service learning must demonstrate civic participation, community involvement, and formal critical reflection. In addition, the project must involve students (normally 3 - 5 hours per week) in an organized community service that addresses local needs.

SFPF 1000

Steamfitter/Pipefitter Apprenticeship Level 1 (180 hours)

This course is intended for BC ITA first year Steamfitter/Pipefitter apprentices. Students will learn how to use blueprints and project specifications, in order to construct, test, repair and maintain piping systems that carry water, steam, chemicals and fuel using specialized equipment to ensure the safety of the pipes and other components of the system such as the automatic controls. They also learn about different types of materials including steel, copper, plastic and numerous metal alloys.

Prerequisite: BC ITA sponsorship

SFPF 1900

Steamfitter/Pipefitter Sampler (120 Hours)

Students will be introduced to the Steamfitter/Pipefitter trade, the type of work this trade entails and the opportunities for jobs in this trade. Referring to the Program Outline from the Industry Training Authority of BC, they will learn about safe work practices for this trade, safe use of the latest in Steamfitter/Pipefitter tools and technology. They will also learn and work with the common materials encountered in the trade and learn how to measure, cut and join pipe.

Prerequisite: Completion of Grade 10

SFPF 2000

Steamfitter/Pipefitter Apprenticeship Level 2 (180 hours)

This course is intended for BC ITA second year Steamfitter/Pipefitter apprentices. Students will learn how to use blueprints and project specifications, in order to construct, test, repair and maintain piping systems that carry water, steam, chemicals and fuel using specialized equipment to ensure the safety of the pipes and other components of the system such as the automatic controls. They also learn about different types of materials including steel, copper, plastic and numerous metal alloys.

Prerequisite: BC ITA sponsorship

SFPF 3000

Steamfitter/Pipefitter Apprenticeship Level 3 (180 hours)

This course is intended for BC ITA third year Steamfitter/Pipefitter apprentices. Students will learn how to use blueprints and project specifications, in order to construct, test, repair and maintain piping systems that carry water, steam, chemicals and fuel using specialized equipment to ensure the safety of the pipes and other components of the system such as the automatic controls. They also learn about different types of materials including steel, copper, plastic and numerous metal alloys.

Prerequisite: BC ITA sponsorship

SFPF 4000

Steamfitter/Pipefitter Apprenticeship Level 4 (240 hours)

This course is intended for BC ITA fourth year Steamfitter/Pipefitter apprentices. Students will learn how to use blueprints and project specifications, in order to construct, test, repair and maintain piping systems that carry water, steam, chemicals and fuel using specialized equipment to ensure the safety of the pipes and other components of the system such as the automatic controls. They also learn about different types of materials including steel, copper, plastic and numerous metal alloys.

Prerequisite: BC ITA sponsorship

SHMT 1900

Sheet Metal Worker Sampler (120 Hours)

Students will be introduced to the Sheet Metal Worker trade, the type of work this trade entails and the opportunities for jobs in this trade. Referring to the Program Outline from the Industry Training Authority of BC, they will learn about safe work

practices for this trade, safe use of the latest in Sheet Metal Worker tools and technology. They will also learn and work with the common materials encountered in the trade and learn how to measure, cut and frabicate metal ductwork, fittings and components.

Prerequisite: Completion of Grade 10

SINC 0500 4 credits

Foundations of Science (5,0,2)

ABE - Advanced: This course introduces important basic science concepts relevant to the general or allied health sciences. The principles of chemistry, biology and physics are covered in a manner which emphasizes the links between disciplines. This course will sufficiently strengthen the students' background in science, so that they can further explore their area of interest.

Note: This course is taught by the University Preparation Department

Required Lab: SINC 0500L

SOCI 1110 3 credits

Introduction to Sociology 1 (3,0,0)

Students learn the core concepts of the discipline of sociology by examining key topics (such as culture, socialization, social interaction, social roles, and social structure) that allow us to locate ourselves within society. Students also explore theoretical perspectives within sociology and the fundamentals of the sociological research methods.

Note that students cannot receive credit for both SOCI 1110 and SOCI 1111

SOCI 1210 3 credits

Introduction to Sociology II (3,0,0)

Students critically examine social stratification and inequalities based on dimensions of class, race, gender, and sexuality in both the Canadian and global contexts. In this second introductory course, students apply a sociological analysis to the study of major social institutions including: education, work, politics, media, healthcare, and the criminal justice system. Students investigate questions and debates concerning our modern world, in particular, those around consumer culture, globalization, and the role of social media.

Note that students cannot receive credit for both SOCI 1210 and SOCI 1211

SOCI 2010 3 credits

Race and Ethnicity (3,0,0)

Students learn about race and ethnicity as social constructions and examine sociological theories to explain race and ethnic inequality in Canada. Students are challenged to critically examine processes of racialization and ethnic belonging in Canada and also in comparison to other countries.

SOCI 2100 3 credits

Canadian Social Issues (3,0,0)

Students engage in a descriptive and analytic survey of features in Canadian society as a basis for understanding current social issues. These features may include demographic characteristics, class structure, race and ethnicity, social policy, regionalism or other relevant aspects of Canadian society.

SOCI 2130 3 credits

Women in Global Perspective (3,0,0) or (3,0,0)(3,0,0)

Students examine the experiences and status of women within a global context. Topics include family relations, paid and unpaid domestic work, the global economy, gendered violence, sex tourism and the sex trade, beauty standards and the altered body, maternal mortality, and societal control of sexuality and reproduction. Throughout the course, students analyze the commonalities and diversities of women's lives through dimensions of race, ethnicity, nation, class, age, and sexuality.

SOCI 2160 3 credits

The Family in Cross-Cultural Perspectives (3,0,0)

Students learn about family life in its formation, the relevance of marriage and cohabitation, bringing up children, and the impact of family issues. In this cross-cultural comparison of family life, students explore global diversity in the structure and meaning of marriage relations; forms of domestic organization; the gendered division of labour, property and inheritance, and the familial influence in the construction of gender in different cultures around the world.

SOCI 2170 3 credits

The Sociology of Popular Culture (3,0,0)

Students examine the sociological implications of current popular culture and issues central to how social life is presented and constructed through popular cultural lenses. Students explore the unequal production, distribution and consumption of popular culture and the representations and justifications of inequality between groups in modern society.

SOCI 2230 3 credits

Collective Behaviour (3,0,0)

Students engage in an analysis of crowd and mass action and behaviour; they examine cases and theories of collective behaviour to explain what occurs in social phenomena such as riots, rumours and miracles, cults, militias and hate groups, urban myths and urban legends, fads and crazes, revolutions and social movements.

SOCI 2260 3 credits

Medical Sociology (3,0,0)

Students examine the social factors that influence health, illness and health care. They learn that health and illness are not entirely individual phenomena; rather, the cause, distribution and consequences of health and illness are also related to social, economic, political and environmental factors. Students explore topics such as the ways people understand and manage their illnesses; the social and cultural meanings of illness; interactions between health care providers and patients; the dynamics of class, gender, race, culture and health; the nature and organization of health care in Canada; environment, work and illness; and critical role that social movements play in what gets 'medicalized.'

SOCI 2270 3 credits

*****Selected Topics in Sociology (3,0,0)**

Students explore specific areas of sociological inquiry at an introductory level that are not normally offered by the department. Course topics will vary according to the specific offering.

SOCI 2500 3 credits

Crime and Society (3,0,0)

Students examine the Canadian Criminal Justice System at an introductory level, with reference to the nature of criminal law, the philosophy of crime control, criminal justice policy, and current trends/patterns of crime in Canada. They explore the various components of the criminal justice system, including policing, the courts, and corrections. Students also discuss the trends in early and contemporary criminological theorizing

SOCI 2590 3 credits

Deviance and Control (3,0,0)

Students critically evaluate the concept of deviance, its resulting social control, and its use in institutions and daily social interactions. Students explore the role of power in reinforcing and challenging 'deviant' identities. Major topics include sexuality, youth, physical appearance, mental disorders, religion and scientific beliefs, and their place in the construction of criminal and non-criminal deviance.

SOCI 2620 3 credits

Sociology of the Environment (3,0,0)

Students engage in the study of environmental sociology at an introductory level, which provides insights into social processes that impact the natural environment. Students examine the social roots of the environmental crisis. Topics include a review of the history of environmental thought within the field, key debates, the role of social institutions, environmental social movements, and a range of case studies.

SOCI 2720 3 credits

Introductory Social Research Methods (2,1,0)

Students engage in an overview of the theory and practice of social research. Students acquire fundamental research and data management skills. Topics include research ethics, research design, survey research, field research,

interviewing, quasi-experimentation, and data analysis.

Prerequisite: SOCI 1110 OR SOCI 1111 AND completion of 30 credits (any discipline)

SOCI 3030 6 credits

The European Orient: Balkans, Russia and Eastern Europe (3,0,0) (3,0,0)

Students survey the cultures shaping Central and Eastern Europe, including Russia, examining the interplay between local and national culture, and between ethnic and political identity.

Prerequisite: Completion of 45 credits (any discipline)

Note: Cannot receive credit for more than one of: SOCI 3030, ANTH 3030, HIST 3030 or POLI 3070

SOCI 3100 3 credits

Canadian Society (3,0,0)

Students examine selected features of the social organization of Canadian cities and towns. Topics may include the relationships between industrial organization, urbanization, and other social institutions and processes; such as family structure, welfare systems, crime rates, minorities, or social movements.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 3120 3 credits
Gender Relations (3,0,0)(3,0,0)
Students examine the nature of gender relations, the social, sexual, economic and political dimensions of gender and theories of gender inequality drawn from social science research. Students investigate the influence of gender on individual identity, social interactions, and institutions such as families, media, work, education and politics. Throughout the course, students explore current issues concerning the binary nature of Western gender relations, the diversity of women and feminist movements, and the commodification of and backlash against feminist ideas and practice.

Prerequisites: Completion of 45 credits

SOCI 3150 3 credits
Aboriginal Restorative Justice (2,1,0)
As an introduction to the aboriginal restorative justice paradigm, students critically examine the historical and contemporary experiences of Aboriginal/Indigenous peoples in Canada. The idea of â€œjustice" is explored and compared amongst some Indigenous, restorative, retributive and rehabilitative conceptions. Particular attention is paid to the importance of values, relationships, needs, and healing for those who cause harm and have been harmed. Indigenous and restorative justice approaches are evaluated in the context of law enforcement, the law, corrections, community development, and crime prevention.

Prerequisite: It is recommended that students complete one introductory Sociology/ Aboriginal/ Indigenous/ First Nations specific course.

SOCI 3160 3 credits
Sexuality (3,0,0)
Students explore the many ways that sexuality, sexual practices, identities, and behaviours change both throughout history and across cultures. Sexualities are continually structured and restructured with regard to politics, ideologies, and social change. Students examine sexuality in its multiple dimensions and how it is experienced in the social world across various intersections of race, class, age, and gender.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 3200 3 credits
Classical Social Theory (3,0,0)
Students engage in the study of complex works by three influential founders of sociology (Karl Marx, Emile Durkheim, and Max Weber), as well as other relevant theorists who contributed to the formation of the basic concepts and methods of the social sciences. Students examine the development of capitalism, the formation of modern society, and the discovery of society as an object of knowledge. Students critically analyze the male-centred and Eurocentic perspectives and limitations of sociological classical theories.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 3210 3 credits
Feminist Theory (3,0,0)
Students engage in learning the history of feminist thought, the major traditions of feminist theory, as well as the debates central to the dialogue of classical and contemporary feminist theory. They study the original work of some of the major theorists and pay close attention to how historical conditions and social issues have shaped the thinking of each author. Topics include historical and contemporary liberal and socialist feminist thought and practice, second-wave radical feminism, feminist theories of intersectionality, and postmodern, post-colonial, queer and

third-wave approaches to feminist theory. Throughout the course, students critically analyze the relevance of the various traditions of feminist thought and practice to contemporary social life. Students also discuss the social, economic and political forces that influence contemporary perceptions of feminism.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 3220 3 credits
Contemporary Issues in Social Theory (3,0,0)
Students examine major schools of social theory and how these schools have developed and expanded their concepts towards explaining the many areas of contemporary social reality. Students explore how theoretical perspectives have influenced the way in which we think about society and also how social scientists use theories and concepts to approach complex social reality and engage in research.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 3520 3 credits
Organization of Work (3,0,0)
Students explore the meaning of work and leisure, and the properties of work organization, such as division of labour and specialization; technology and working knowledge; and the means of coordinating work, such as cooperation, authority, and exchange. Students also explore topics such as work in households, offices and industry, division of labour by gender, industrial democracy, and the relation of work and social inequality.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 3600 3 credits
Sociology and Natural Resources (3,0,0)
Students examine sociological perspectives on property, resource development, resource communities, and resource industries. Students explore social causes and consequences of change in the social organization and social policies of industries such as agriculture, fishing, forestry and mining; they also engage in a critical survey of current issues with resource consumption and exploitation.

Prerequisites: Completion of 45 credits (any discipline)

SOCI 3610 3 credits
Social Inequality (3,0,0)
Students learn that inequalities based on class, gender, and race, are socially constructed in the contemporary world and examine the connections between these dimensions of social inequality and social stratification. Students also

explore other sources of inequality, such as ethnicity, class and caste systems, sexual orientation, age, disability, occupation, income, and power.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 3620 3 credits
*****Special Topics in Social Problems (3,0,0)**
Students engage in an indepth examination of a selected area within the discipline of sociology. The specific area will vary according to faculty availability and expertise.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 3680 6 credits
Deviance and Social Control (3,0,0)(3,0,0)
Students learn the analytic framework for the study of the generation and control of deviant activities. The course aims to explore the essence of deviant behaviour, including its construction, explanation, commission, and control. Students focus on the major theoretical approaches to the study of deviance and deviants, and may discuss classical and contemporary theories.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 3800 3 credits
Introduction to Social Survey Design and Analysis (2,1,0)
Students learn to design questionnaires, complete interviews, draw samples, and analyze survey data. This is a core course for the sociology major program.

Prerequisite: SOCI 2720 and completion of 45 credits (any discipline)

SOCI 3820 3 credits
Qualitative Research Methods in Sociology (2,1,0)
Students explore a diversity of ethnographic and qualitative research methods used by sociologists, as well as theories and practical elements of qualitative data analysis. Students gain practical skills in qualitative research methods, such as: interviews, focus groups, participant observation, ethnography, autoethnography, and discourse and text analysis. Students also examine ethical issues related to the use of ethnography & qualitative methods, such as motivation, benefits, detriments, power relations, or politics of representation.

Prerequisite: SOCI 2720 and completion of 45 credits (any discipline)

Note that students cannot receive credit for both SOCI 3820 and CRIM 3821

SOCI 3990 3 credits
Sociology of Diversity: Issues for Canadians (3,0,0)
Students engage in in-depth study of topics in the sociology of diversity. They explore the tensions and challenges that arise from multiculturalism, the presence of multiple nations within Canada, and the varied social identities found among communities and groups in Canada's pluralistic society.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 4030 6 credits
Ethnography of Special Areas - Field Course in East/Central Europe (3,0,0)
This course offers an advanced introduction to the societies and cultures of East and Central Europe by way of a month-long field trip to Austria, Czech Republic, Slovakia, and Ukraine. While immersed in the geographical area, students ethnographically examine the religions, ethnic relations, economies, and politics shaping the buffer zone between the European East and West.

Prerequisite: Completion of 45 credits (any discipline)

Note: This course is equivalent to ANTH 4030

SOCI 4130 3 credits
Family and Kinship (3,0,0)
Students examine a range of methodologies for defining family relations and kinship organizations on the basis of case studies cross-culturally. Students engage in theoretical analysis of family and kinship and focus on a select topic to approach the study of family life.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 4200 3 credits
Complex Organizations (3,0,0)
Students explore the history of the formation of complex organizations during the industrial and political revolutions of modernity, their initial bureaucratic arrangement, and their newer, flexible and dynamic forms due to technological change and globalization. Students learn a critical sociological perspective on organizational analysis, how to recognize the different types of organizations, and how they touch virtually all aspects of modern life. Students learn about the relationships between modern complex organizations and individuals, as well as how organizations interact with the larger institutions of society and the world.
Prerequisite: Completion of 45 credits (any discipline)

SOCI 4210 3 credits
The Social Constructionof Knowledge and Freedom (3,0,0)
Students engage in an analysis and critical examination of the notion of individual freedom and the scientific production of knowledge. Students examine mainstream social theories as well as alternative knowledge systems; debate the actuality of modern individualism; and review recent critiques of knowledge production that focus on issues such as overarching universalisms, colonialism, and androcentrism.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 4600 3 credits
Globalization (3,0,0)
Students examine the origins, nature, and impacts of globalization in the contemporary world, and explore how the links between nations, regions, and peoples are increasing at an unprecedented rate. New technologies make possible previously unimaginable forms of interdependence, but the consequences of these changes are not uniform and affect people in different locations in various ways. Students decenter the West and aspire to a cosmopolitan perspective that will allow them to consider the point of view of the non-West. Students also learn theories of globalization to explain how people from different nations experience its effects, the relevance of culture, globalization's links to colonialism and capitalism, the importance of information technologies and the global city, and the efforts of people at dealing with the effects of globalization locally.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 4660 3 credits
Socialization and Education (3,0,0)
Students examine the contexts, mechanisms, and outcomes of learning across a range of modern settings (childcare, pre-schools, primary schools, secondary schools, and universities); they also explore other learning spaces, such as the home and the playground, and consider how family, school, and society work together to shape the learning processes of children, teenagers and young adults. Students discuss topics such as the impact of early learning on subsequent learning, the influence of different parenting styles, the relevance of social class, race and gender, the ways peer groups influence learning, the various purposes and goals of formal education, and the processes of student engagement and disengagement.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 4700 3 credits
Sociology of Crime and Justice (3,0,0)
Students engage in a critical examination of the intersection of crime and justice in Canada. Social justice and criminal justice are inextricably linked; experiences with the law are often filtered through the collective identities that individuals embody, for example, as racialized and gendered beings. Students examine the profound ways that privilege and disadvantage are connected to people's power to resist and vulnerability to both victimization and criminalization. Students also explore the various responses to convicted offenders undertaken within the criminal justice system, such as incarceration, rehabilitation and restorative justice.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 4730 3 credits
Global Social Change (3,0,0)
Students examine the development of transnational governance institutions and how they affect people with the least power in the world; but also of grass-roots social movements that have achieved transnational organization and that oppose the effects of global neo-colonialism. Students engage in critical examination of the social and cultural institutions and ideologies needed to sustain the current global capitalist order. Students explore major issues emerging from current arrangements in global political economy, such as world inequality and poverty, the detrimental effects of global capitalism on the environment, and its economic, political, and cultural-social crises.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 4810 3 credits
Directed Studies in Sociology (3,0,0)
This course is designed to allow upper-level students to undertake an investigation on a specific topic as agreed upon by the faculty member and the student.

Prerequisite: Completion of 45 credits (any discipline)

SOCI 4840 3 credits
Sociology of Health and Illness (3,0,0)
Students explore sociological perspectives on health, illness, injury and health care as represented in classic and contemporary sociological studies and gain an understanding of how health and illness are socially constructed and mediated. Students examine topics in the sub-fields of public health, health care and medical sociology, such as social determinants of health, the social organization of health systems, health care professionals, medicalization and medical authority, therapeutic innovation, experiences of health, illness, aging and treatment, and a variety of other contemporary social issues related to health and illness

Prerequisite: Completion of 45 credits (any discipline)

SOCW 2060 3 credits
Introduction to Social Work Practice (3,0,0)
Students explore the history, philosophical foundation, and theoretical perspectives of the profession of social work, including a review of the relevant codes of ethics and practice standards that guide practitioners. This course provides an overview of the roles in which social workers become involved, for example, as advocates, policy analysts, administrators, activists, educators, counsellors, facilitators, mediators, organizers, and researchers. Social workers are committed to working for social justice; therefore, students examine the social structures that influence people's lives and how various sources and forms of oppression and marginalization impact the lives of people in Canadian society.

Prerequisite: 2nd year standing

Note: Students cannot receive credit for more than one of HUMS 2060, SOCW 2061 or SOCW 2060

SOCW 2120 3 credits
An Introduction to Social Welfare in Canada (3,0,0)
Students are introduced to the Canadian welfare state and the response of the federal and provincial governments to poverty in Canada. An overview of the historical development of social security policies and programs in Canada is provided, and the influence of ideology on policy is discussed. The impact of policy on youth, women, older persons, and Aboriginal peoples is described. The human service/social worker's role in formulating and influencing policy is considered.

Note: Students cannot receieve credit for more than one of HUMS 2120, SOCW 2121, or SOCW 2120

SOCW 3000 3 credits
Canadian Social Policy (3,0,0)
This course explores the socio-historical, economic, ideological, and institutional contexts for the development of social policy in Canada. Students discuss the policy making process, as well as the role of social policy in processes of inclusion, exclusion, marginalization, and oppression. A critical analysis of selected social policies is emphasized.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program, or permission of the program coordinator

Note: Student must maintain a grade of C or better.

SOCW 3010 3 credits
Introduction to Social Work Research (3,0,0)
Students explore the concepts, methods, and processes of social research, and develop skills in conducting and assessing research. Students are challenged to examine their own approach to knowing, to incorporate research into practice, and to think critically about research in relation to social work practice. The subjectivity of the researcher, the political and ethical context of research, and the role of research as an instrument of power in the lives of oppressed peoples is discussed.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

Note: Student must maintain a grade of C or better

SOCW 3020 3 credits

Data Analysis in the Health and Human Service Professions (3,0,1)

This course is designed to facilitate learner understanding of the data-analysis process in relation to research-based professional practice in nursing and social work. Students apply a range of analytical techniques to qualitative and quantitative data, while enhancing their ability to analyze data and critically review research literature applicable to their professional practice.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

Note: Students normally will receive credit for only one of the following: BIOL 3000, BUEC 2320, MATH 1200, PSYC 2100, SOCI 3710, SOCW 3020, STAT 2000

SOCW 3040 6 credits

Social Work Field Practice (0,1,21P)

Students apply ethics, theory, and research to social work practice while developing professional practice skills. Students integrate classroom learning with practical experience while working in partnership with clients, community groups, and other professions. The practicum is a structured educational experience that includes specific learning objectives and professional supervision provided in an evaluative, disciplined, and reflective manner. Through seminar discussions, students analyze inequality, injustice, and oppression in practice. The practicum is normally completed three days a week and is accompanied by a seminar, for a total of 300 hours including pre-practicum orientation and practicum seminars.

Prerequisite: SOCW 3060, SOCW 3530

Note: Students cannot receive credit for both SOCW 3040 and HUMS 2600

SOCW 3060 3 credits

Theory and Ideology of Social Work (3,0,0)

Students are introduced to social work theory and ideology, while they examine the links between social values, theory, and practice in social work. Various social work practice theories are introduced to build a foundation for critical social work practice. The social, political, and economic contexts of social work and social welfare are addressed.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 3070 3 credits

Models of Social Work Practice (3,0,0)

Students review and examine social work practice models such as humanist/existential, ecological, task-centred, behavioural, feminist, cognitive, and radical/structural. The seminar focuses on the integration of communication skills, practice experience, and theoretical knowledge.

Prerequisite: SOCW 2060, SOCW 2120, SOCW 3530, 3060 (grades of C or better), admission to the Bachelor of Social Work program or permission of the program coordinator.

Corequisite: SOCW 3040

SOCW 3100 3 credits

Aboriginal Life Cycles (3,0,0)

This course utilizes seven interconnected circles to represent the life cycles of creation, birth and childhood, youth, women, men, elders, and Spirit World. Students examine stages of development and learning through these life cycles, in social and cultural contexts. This course seeks to create understanding and knowledge of Indigenous people through differing ways of knowing, being, seeing, and doing.

Prerequisite: SOCW 2060, SOCW 2120

SOCW 3110 3 credits

Aboriginal Perspectives on Social Policy (3,0,0)

Students inquire into the process of decolonization as it relates to social policy, and explore and analyze historical Canadian policies and legislation and their implications for Aboriginal people today. Students critique and analyze the efficacy of existing policies, and create a framework to interpret and develop effective policies for Aboriginal peoples.

Prerequisite: SOCW 2060, SOCW 2120

SOCW 3300 3 credits

International Field Studies (3,0,0)

This course offers a two-week international study experience in a selected country. Students explore the political, economic, cultural, and social conditions of their selected country, including globalization and its effects on citizens, social welfare policy and practice, community development strategies, and the marginalization and oppression of groups. Activities involve presentations and seminars by international leaders, professionals, and residents, as well as visits to a range of community sites and organizations.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

Note: This course is identical to POLI 3300

SOCW 3530 3 credits

Social Work Practice with Individuals (3,0,0)

Students develop effective communication skills and apply these to social work practice. From anti-oppression, feminist, and Aboriginal perspectives, students establish communication concepts and methods applicable to practice with diverse groups. Through experiential methods, students increase self-awareness and problem-solving skills, develop a beginning purposeful intervention framework, and gain experience in the conscious, disciplined use of self.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 3540 3 credits

Indigenous People and Human Services (3,0,0)

Students critically examine the historical process of colonization in Canada, the resulting barriers embedded in policy and practice, and alternative ways of viewing the social-psychological position of Indigenous People in Canadian society. Contemporary issues and the movement toward self-determination are discussed in relation to social work theory and practice.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

Note: Students must maintain a grade of C or better to successfully complete this course

SOCW 3550 3 credits

Human Development (3,0,0)

The objectives of this course are to introduce students to concepts and models of how human behaviour is acquired, maintained, and modified, and to promote an understanding of normal human development as a knowledge base for practice with individuals, families, and groups in a rural context.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of program coordinator

SOCW 3570 3 credits

Social Work, Law and Social Policy (3,0,0)

This course provides a basic introduction to legal issues and an examination of the social impact of legislation and policy. Students develop a beginning knowledge base in areas of law that are particularly relevant to social work practice.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

Note: Students will receive credit for only one of the following: SOCW 3570, CYCA 3570

SOCW 3580 3 credits

Legal Skills for Social Workers (3,0,0)

Students explore theory and practice approaches to mediation, alternative dispute resolution, and advocacy. Through participation in role play, practice simulations, and a moot court experience, students develop skills in evidence-giving, investigation, and report-writing.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 3590 3 credits

Social Work Practice with Diverse Populations (3,0,0)

This course builds on established interview skills and practice with individuals. Students are introduced to work with diverse social and cultural groups including Aboriginal, Asian, and francophone peoples within British Columbia. Communication with Aboriginal people is a core emphasis in this course. Students develop a culturally sensitive approach in problem-solving situations while working with individuals. Theories of intervention are introduced, practiced, and critiqued by students.

Prerequisite: SOCW 3530 or HUMS 3530

SOCW 3750 3 credits

Cultural Immersion (3,0,0)

This course provides an opportunity to experience First Nations culture and traditions from a holistic perspective. Students are immersed in cultural activities, ceremonies, and teachings to deepen their knowledge and appreciation of First Nations culture.

Prerequisite: SOCW 2060, SOCW 2120

SOCW 3760 3 credits

Family and Child Welfare Practice (3,0,0)

Students analyze family and child welfare systems and current British Columbia models of practice from anti-oppression, Aboriginal, and feminist perspectives. An introductory critique of the legal system is provided, and its relationship to practice with diverse populations is considered. Students also discuss the

importance of understanding personal and professional values and ethics in a climate of constant change. Major emphasis is given to First Nations and Aboriginal child welfare due to the high rate of Aboriginal children in care.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 4000 3 credits

Policy in the Human Services (3,0,0)

Students are provided with an introduction to the main organizational structures of, and stages in, the social policy making process in Canada. The course aims to strengthen students' skills in the analysis of policies and programs in Canadian human services; to critically reflect on different ideologies and theories through which the welfare state has been examined in various countries; and to develop an appreciation of the interdisciplinary nature of social policy as a field of academic and applied activity.

Prerequisite: SOCW 2060, SOCW 2120, SOCW 3000, admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 4010 3 credits

Race, Racialization and Immigration Policy (3,0,0)

Students will critically examine Canada's immigration policies and practices to consider their contribution to social inclusion and exclusion. Topics explored include theories of race and racialization, and historic and contemporary

perspectives on Canadian migration. Students will analyze the role of media in public opinion, and the social and political factors impacting the lives of Canadian migrants.

Prerequisite: Admission to the BSW program or permission of coordinator

SOCW 4020 9 credits

Social Work Field Practice (0,1,28P)

Students apply ethics, theory, and research to social work practice while developing professional practice skills. This course is completed at the end of the student's studies in the Bachelor of Social Work degree program and develops analytic and practical abilities sufficient to begin professional practice. The practicum is a structured educational experience that includes specific learning objectives; professional supervision is provided in an evaluative, disciplined, and reflective manner. Through seminar discussions, students analyze inequality, injustice, and oppression in practice. This practicum is normally completed four days a week, includes a seminar, and is a total of 432 hours.

Prerequisite: 4th-year standing, a minimum of 45 social work credits, SOCW 3040 or HUMS 1600, and HUMS 2600

SOCW 4030 3 credits

Generalist Social Work Practice (3,0,0)

Students strengthen their understanding of generalist social work practice and problem solving approaches, heighten their ability to recognize and grapple with ethical dilemmas, and think critically about their own conceptual and philosophical orientation to social work practice.

Prerequisite: SOCW 2060, SOCW 2120, SOCW 3010, SOCW 3040, SOCW 3060, SOCW 3070, SOCW 3530, with a C standing or better in all required courses and a minimum of 30 social work credits

SOCW 4040 3 credits

Ethical Practice in Aboriginal Communities (3,0,0)

Students focus specifically on ethical considerations and decision making when working in Aboriginal communities. The course examines codes of ethics in the social work profession, Aboriginal codes of ethics, and mainstream theoretical aspects of ethical practices. Students are also provided an opportunity to engage in an exploration of integrated, personal, and ethical practices that are culturally based through validation and revitalization of Aboriginal codes of ethics.

Prerequisite: SOCW 2060, SOCW 2120

SOCW 4200 3 credits

Intimate Partner Violence and Social Work Practice (3,0,0)

Students are introduced to social work practice with individuals, families, and communities in response to violence inadult intimate relationships. Students explore intimate partner violence (IPV) and social work practice from a varietyof perspectives, including cross-cultural, international, Indigenous, and feminist. This course emphasizes a social work practice approach that is community-based, culturally responsive/safe, feminist, and anti-oppressive. In thiscourse, IPV is understood as violence in adult intimate relationships, including same-sex couples. Additional topicsi nclude IPV in Indigenous communities, children who witness violence, and dating violence.

Prerequisite: SOCW 2060, and SOCW 2120, and admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 4300 3 credits

Sexual Orientation and Gender Expression (3,0,0)

Students are introduced to interpersonal and systemic issues that sexually diverse and gender varied people encounter on a daily basis. Policies, legislation, and social contexts are analyzed with a view to understanding the impact of intersecting oppressions and privileges on sexual and gender minorities. Students discuss social work strategies to support and advocate for gay, lesbian, bisexual, trans-identified, two-spirit, intersex, queer, and questioning (GLBTTsIQQ) people, plus their families and communities, including courses of action for being an ally.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 4400 3 credits

Social Work and Mental Health (3,0,0)

Students are introduced to the practice of social work in the field of mental health by critically examining historical and contemporary theoretical perspectives on mental illness, Canadian mental health law and policy, cultural and diversity aspects, classification and treatment, ethical issues, and an exploration of additional selected mental health issues. Students are presented with the personal accounts of individuals who have experienced mental health problems. The course is intended to provide introductory foundational knowledge in the field of mental health, rather than advanced knowledge and skills that are required for mental health practice.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 4500 3 credits

Leadership Practice in Social Service Organizations (3,0,0)

Students are provided with a critical introduction to leadership in social service organizations, and review organizational theory and its application to government and non-profit organizations. Leadership in a diverse workplace, program development, budgeting, staff appraisal, supervision, and work with voluntary boards are also discussed. Through experiential learning methods, students explore the key organizational skills that are necessary for effective leadership in organizations.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 4520 3 credits

Educating for Social Change (3,0,0)

Students focus on the use of education as a strategy for individual and social change through the concept of education as the practice of freedom, and as a process of social transformation through conscientization. Principles and practices of adult education are examined for their application in social work as vehicles for empowerment and change. Students present workshops, plays, or web programs to develop the specific skills and knowledge for planning and delivering educational programs. Students further explore feminist, Aboriginal, and anti-oppression perspectives.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 4540 3 credits

Aboriginal Decolonizing Social Work Practice (3,0,0)

Students examine social workers' roles and responsibilities in working with diverse Aboriginal peoples such as First Nations, Inuit, Metis, and on and off reserve peoples. The concept and process of decolonization is introduced and connected to contemporary stories, community social work program initiatives, and practices of Aboriginal peoples. This course utilizes a gendered Aboriginal perspective and explores strategies for reconciliation, building relationships between Aboriginal and non-Aboriginal peoples, and practices within the social work profession.

Prerequisite: SOCW 2060, SOCW 2120, SOCW 3540, admission to the Bachelor of Social Work program, or permission of the program coordinator

Note: Student must maintain a grade of C or better to successfully complete the coures

SOCW 4550 3 credits

Social Work Practice with Communities (3,0,0)

Students explore the construction of community and analyze marginalization, exclusion, and oppression in communities. The course outlines social work roles as well as strategies for change in diverse communities. The history, philosophy, models, and methods of social practice with communities are described.

Prerequisite: SOCW 2060, SOCW 2120, 3060, admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 4560 3 credits
Decolonizing Practice 2 (3,0,0)
This course centres on the revival and renewal of indigenous philosophies as they relate to social work practice. Students apply their knowledge and skills to issues related to ceremony, family systems, art, language, and storytelling to reaffirm and revitalize indigenous ways of knowing and being in order to challenge oppression.

Prerequisite: SOCW 2060, SOCW 2120

SOCW 4600 3 credits
*****Special Topics in Social Work and Social Welfare (3,0,0)**
Students explore special issues in social welfare and various approaches to social work practice. This variable content course is restricted to students in third or fourth year.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 4610 3 credits
Social Work Practice with Groups (3,0,0)
Students are introduced to the historical development of the use of groups in social work practice, and examine the various theoretical approaches to group work including anti-oppression, feminist, and Aboriginal perspectives. Students examine the use of groups as vehicles for treatment, task accomplishment, self-help, mutual aid, community intervention, peer supervision, and professional association. This course provides an opportunity to understand the stages of group development, and to practice skills related to group processes. Students participate in structured group experiences.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 4650 3 credits
Older People, Aging and Society (3,0,0)
This course is an introduction to working with and on behalf of older people from an anti-oppression and inter-disciplinary perspective. Students examine age in relation to other identity factors, such as race, ethnicity, class, gender, (dis)ability, faith, sexual orientation, aboriginal ancestry, and marital status. Students consider issues affecting older adults locally and globally; critically examine beliefs and attitudes related to aging and older people--our own and those of others; and develop a framework for anti-oppression practice with older people. Students discuss policy, practice, and research issues within the field of aging, and focus on structural inequalities in later life and the voices of older people.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 4660 3 credits
Addictions and Social Work Practice (3,0,0)
This course is designed to give students an introduction to substance misuse as well as compulsive and addictive behaviour. Major addiction theories are examined, and the role of social work is explored. Substance abuse and other addictive behaviours in relation to cultural minorities, youth, and older adults are examined. Students acquire knowledge of the local network of available services and resources. This course fosters a critical perspective on legal issues and government policy regarding addictive substances.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work students program or permission of the program coordinator

SOCW 4760 3 credits
Family and Child Welfare Policy (3,0,0)
Students critically examine family and child welfare policy and practice issues. The conceptual framework of this course includes an overview of ideological influences and stresses the importance of a gender, race, and class analysis of family and child welfare issues and practice in Canada.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 4770 3 credits
Social Work Practice with Families (3,0,0)
Students explore social work practice within contemporary families with diverse structures and backgrounds. Utilizing a variety of theoretical perspectives, including anti-oppression, feminist, and Aboriginal, students develop an understanding of families within a social, cultural, economic, and political context, and examine ethical and practice issues commonly encountered in social work practice with families. Through class discussion, assignments, and experiential exercises, students develop skills and integrate theory and practice.

Prerequisite: SOCW 2060 and SOCW 2120 and admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 4780 3 credits
Introduction to Disability Studies (3,0,0)
Students examine perspectives on disability, race, gender, and class, as well as critically analyze current theories, policies, and practice. Students are introduced to issues affecting people with disabilities within a framework of human rights, citizenship, and inclusion. This course also engages students in an examination of their own beliefs and attitudes about disability, and emphasizes knowledge required for anti-ableist practice. Significant events and the contributions of pioneers in the disability rights movement are explored. The roles and perspectives of people with disabilities, their family members, and professionals are considered in relation to social work values, theory, policy, and practice.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 4800 3 credits
International Social Work (3,0,0)
Students are introduced to the field of international social work. Current global social welfare issues and challenges are critically explored and discussed, including global Indigenous issues and development approaches of different countries. Students complete an in-depth examination of the economic, political, social, and cultural dimensions of globalization. Implications for international social work and its social justice and anti-oppressive mandate are analyzed by addressing complex global issues such as disaster relief and humanitarian aid, human trafficking, and forced migration of people. The impact of political, social, economic, cultural, religious, and environmental influences on human rights, social and economic justice, social policies, and service delivery are explored. The role of social work in facilitating international social development is examined in local and global contexts.

Prerequisite: SOCW 2060, SOCW 2120, admission to the Bachelor of Social Work program or permission of the program coordinator

SOCW 4900 3 credits
Directed Studies (3,0,0)
This independent study course is designed to allow students the opportunity to investigate a specific issue within a field or topic in social work, such as gerontology, mental health, sexual assault, or corrections. Consultation with, and permission of, a faculty member and the Associate Dean is required.

SOSC 600 4 credits
Introduction to Social Sciences (6,0,0)
This course provides an overview of the following disciplines of social science: Anthropology, Psychology, Political Science, Sociology and History.

Prerequisite: ENGL 0500 or equivalent

Note: This course is taught by the University Preparation Department

SPAN 1110 3 credits
Introductory Spanish 1 (3,0,1)(L)
This course allows beginners to develop cultural knowledge and communication skills in speaking, listening, reading, and writing in modern standard Spanish. Upon successful completion, students are expected to demonstrate a CEFR A1 level of proficiency.

Note: Students who have completed Spanish in Grade 11 or equivalent within the last two years may not take this course for credit unless approved by Modern Languages

SPAN 1210 3 credits
Introductory Spanish 2 (3,0,1)(L)
This course builds upon skills acquired in SPAN 1110: Introductory Spanish 1. Upon successful completion, students are expected to demonstrate a CEFR A1+ level of proficiency.

Prerequisite: SPAN 1110 or equivalent

Note: Students who have completed Spanish in Grade 11 or equivalent within the last two years may not take this course for credit unless approved by Modern Languages

SPAN 2110 3 credits
Intermediate Spanish 1 (3,0,1)(L)
Students continue to develop their communication skills in speaking, listening, reading, and writing, and explore language from a variety of different areas, registers, and periods. Upon successful completion, students are expected to demonstrate a low CEFR A2 level of proficiency.

Prerequisite: SPAN 1210 or equivalent

SPAN 2150 3 credits
Oral Spanish 1 (3,0,1)(L)
This course, conducted in Spanish, is designed to enhance oral communicative skills. Students review grammar and expand their vocabulary. A variety of activities are aimed at enabling the student to progress to a superior level of fluency. Upon

successful completion, students are expected to demonstrate a CEFR B1+ - B2 level of proficiency.

Prerequisite: SPAN 2210 or equivalent. Native speakers of Spanish may not take this course for credit.

Corequisite: Students are encouraged to take SPAN 2110/2210 and SPAN 2150/2250 concurrently

SPAN 2210 3 credits

Intermediate Spanish 2 (3,0,1)(L)

Students solidify their skills and extend their knowledge of the Spanish language while being introduced to increasingly advanced language structures. Upon successful completion, students are expected to demonstrate an intermediate CEFR A2 level of proficiency.

Prerequisite: SPAN 2110 or equivalent

SPAN 2250 3 credits

Oral Spanish 2 (3,0,1)(L)

This course is a continuation of SPAN 2150: Oral Spanish 1. Upon successful completion, students are expected to demonstrate a CEFR B2 level of proficiency.

Prerequisite: SPAN 2150 or instructor's approval. Native speakers of Spanish may not take this course for credit.

Corequisite: Students are encouraged to take SPAN 2110/2210 and SPAN 2150/2250 concurrently

SPAN 2500 3 credits

Spanish for Business 1 (3,0,1)(L)

This course provides a basic foundation in Spanish vocabulary and discourse related to functional business areas. Students practice writing commercial documents in Spanish, while focusing on business topics, business vocabulary, and grammar points. Reading, writing, speaking, and listening tasks are completed in a business or commercial context. Students also concentrate on cross-cultural communication between Latin America, Spain, and North America.

Prerequisite: SPAN 1210 or equivalent

SPAN 2510 3 credits

Spanish for Business 2 (3,0,1)(L)

This course is a continuation of SPAN 2500: Spanish for Business 1. This course provides a basic foundation in vocabulary and discourse related to functional business areas. Students practice writing commercial documents in Spanish, while focusing on business topics, business vocabulary, and grammar points. Reading, writing, speaking and listening exercises are completed in a business or commercial context. Students also concentrate on cross-cultural communication between Latin America, Spain, and North America.

Prerequisite: SPAN 2500 or equivalent

SPAN 3010 3 credits

Studies in Hispanic Literature 1 (4,0,0)

This course, conducted in Spanish, surveys representative works of literature from Spain and Spanish America from the beginning of the twentieth century to the present. Students examine the relation between literature and other disciplines, as they are presented with basic tools and techniques of research and criticism related to Hispanic literature.

Prerequisite: SPAN 2110 and SPAN 2210 or equivalent

SPAN 3020 3 credits

Studies in Hispanic Literature 2 (4,0,0)

Continuing from SPAN 3010: Studies in Hispanic Literature 1, this course, conducted in Spanish, is a survey of representative works of literature from Spain and Spanish America, from the beginning of the twentieth century to the present. Students examine the relationship between literature and other disciplines, as they are presented with basic tools and techniques of research and criticism related to Hispanic literature.

Prerequisite: SPAN 3010 or equivalent

SPEE 1500 3 credits

Speech Communications (3,0,0)

This is a performance-oriented course designed to present students with a study of the oral communication process, and the presentational skills required in the preparation of effective oral communications.

SPEE 2500 3 credits

Professional Presentations (3,0,0)

This course presents the communication skills necessary to plan and conduct presentations effectively. A wide range of presentation skills are developed and practiced in the course, including introductions, advocacy, informational sessions, public readings, demonstration skills, and interviewing.

Prerequisite: 3 credits of English, Communications or Journalism, or permission of the department chair

SRCL 1000 3 credits

Introduction to Community Service-Learning (2,1,3P)

This course, intended for a wide variety of community-minded first year students, provides students with opportunities to connect their academic course work with service in community organizations in Kamloops. The primary focus of this course is the service experience of the students. Concurrent with this experience, students broaden their personal, cultural, academic and professional knowledge through topics such as workplace culture and career exploration. Students demonstrate their service-learning through reflective oral and written assignments.

Prerequisite: Completion of ESAL Level 3 (65% or better) or by English placement test into ESAL Level 4

STAT 1200 3 credits

Introduction to Statistics (3,1.5,0)

This course is for non-science students who require an introduction to statistical reasoning. Topics include: descriptive statistics; correlation and regression; normal and binomial distributions; sample and experimental design; chi-square distribution; and hypothesis testing.

Prerequisite: Foundations of Math 11 or Pre-calculus Math 11 or equivalent (BC graduates of 2013 onwards) or Principles of Math 11, or Applications of Math 12 or equivalent (BC graduates prior to 2013), or MATH 0510 or MATH 0523 or equivalent. MATH 1100 or MATH 1101 is recommended.

Required Seminar: STAT 1200S

Note: Students may normally receive credit for only one of the following: BIOL 3000, BUEC 2320, MATH 1200, PSYC 2100, SOCI 2710, SOCI 3710, STAT 1200, STAT 2000, STAT 1201

STAT 2000 3 credits

Introduction to Statistics (3,1.5,0)

This course is for science and forestry students who require an introduction to probability and statistical reasoning. Topics include: descriptive statistics; correlation and regression; probability; probability distributions; binomial and normal distributions; sample and experimental design, chi-square distribution, hypothesis testing, and analysis of variance. Applications in science and forestry are emphasized.

Prerequisite: MATH 1140 or equivalent first semester of calculus

Required Seminar: STAT 2000S

Note: Students may normally receive credit for only one of the following: BIOL 3000, BUEC 2320, MATH 1200, PSYC 2100, SOCI 2710, SOCI 3710, STAT 1200, STAT 2000, STAT 1201

STAT 2230 3 credits

Probability and Statistics for Engineers (3,1.5,0)

This course is an introductory course in statistics. We start by looking at how to summarize the important characteristics of a set of data using both pictures and numerical measures. We will explore probability and some of the more useful probability distributions. Finally, we will look at some methods using probability to infer some characteristics of the population from the information contained in the data. Throughout the course we will learn what assumptions are necessary to make our techniques valid. The course will emphasize applications in Engineering

and Science.

Corequisite: MATH 2110 or equivalent third semester of calculus

STAT 2410 3 credits

Applied Statistics (3,1,0)

This course is designed for students who have already completed an introductory statistics course and desire exposure to further commonly-used statistical techniques. Topics include analysis of variance, multiple regression, goodness of fit, non-parametric methods, quality control, and decision theory.

Prerequisite: STAT 2000 or MATH 1200 or equivalent

Required Seminar: STAT 2410S

STAT 3050 3 credits

Introduction to Statistical Inference (3,1,0)

This course examines the theory behind statistical inference. Topics include a review of probability theory, sampling distributions, and methods of estimation and hypothesis testing. Methods such as maximum likelihood estimation, bootstrapping, Bayesian methods, likelihood ratio testing, and confidence interval construction are emphasized.

Prerequisite: STAT 2000 and MATH 3020

STAT 3060 3 credits

Applied Regression Analysis (3,1,0)

This course concentrates on the applications rather than the theory of regression analysis. Topics include residual analysis, diagnostics, transformations, model selection and checking, weighted least squares and

nonlinear models. Additional topics may include are inverse, robust, ridge and logistic regression.

Prerequisite: MATH 2120, STAT 2000

Required Seminar: STAT 3060S

STAT 3990 3 credits

*****Selected Topics in Statistics (3,1,0)**

Students consider, in depth, a selection of topics drawn from Statistics. The particular topics may vary each time the course is offered.

Prerequisite: STAT 2000 and at least 3 credits of MATH or STAT at the 2000 level or higher, or permission of the instructor

Required Seminar: STAT 3990S

STAT 4040 3 credits

Analysis of Variance (3,1,0)

Students discuss the analysis of variance for standard experimental designs. Topics include single factor designs, fixed and random effects, block designs, hierarchical designs, multiple comparisons, factorial designs, mixed models, general rules for analysis of balanced designs, and analysis of covariance.

Co-Requisite: STAT 3060

Required Seminar: STAT 4040S

STAT 4310 3 credits

Introduction to Multivariate Analysis (3,0,1)

Students analyze and interpret multivariate data in a number of different contexts. Topics include linear models, analysis of variance and covariance, multivariate analysis of variance, principle component analysis, and tree models. Students explore techniques for exploratory data analysis, model identification, and diagnostic checking. The course involves extensive use of software tools to apply the various analytical approaches.

Prerequisite: STAT 2000 or BIOL 3000

Recommended: MATH 2120 OR MATH 3020 OR STAT 3060 OR STAT 4040

STAT 4980 3 credits

Directed Studies in Statistics

Students undertake an investigation on a specific topic as agreed to by the faculty member and the student.

Prerequisite: Permission of the instructor

STAT 4990 3 credits

*****Selected Topics in Statistics (3,1,0)**

Students consider, in depth, a selection of topics drawn from Statistics. The particular topics may vary each time the course is offered.

Prerequisite: At least two of MATH 3020, MATH 3030, STAT 3050, STAT 3060 or permission of the instructor

Required Seminar: STAT 4990S

STSS 0500 4 credits

An Introduction to Student Success (6,0,0)

This course is designed for University Preparation students to enhance their learning skills and to promote success in lifelong learning. The course is experiential in nature with practical applications, and includes small group activities designed to improve student success.

Prerequisite: Completion of ENGL 0400 or equivalent

STSS 1030 1 credits

Student Success and Study Skills (1,0,0)

Students develop the study habits and academic skills necessary to succeed at university. Students are challenged with opportunities to master theory-based strategies and practical skills in time management, research, retention,

reading for academic purposes, note-taking and test-taking.

Prerequisite: English 11 with a C+ minimum, or equivalent

STSS 1040 1 credits

Student Success and Wellbeing (1,0,0)

Students learn how to utilize available resources and strategies to help them maintain a healthy balance in their lives academically, physically, mentally, emotionally, and financially. Topics include nutrition, sleep, exercise, mental health, addiction, stress, sexual health, and money. Students adopt methods for maintaining a healthy balance in their lives at university.

Prerequisite: English 11 with a C+ minimum, or equivalent

STSS 1050 1 credits

Student Success and Communication (1,0,0)

Students are introduced to the skills required for effective interpersonal communication. Students discover their own communication styles and explore a variety of techniques that develop their speaking and listening skills. Topics include direct/indirect and verbal/non-verbal communication, emotional intelligence, conflict management, and diversity.

Prerequisite: English 11 with a C+ minimum, or equivalent

STSS 1060 1 credits

Intercultural Perspectives (1,0,0)

Students will gain an enhanced understanding of cultural diversity and improve their capacities for engaging in inclusive intercultural learning opportunities. Topics include cultural influences on personal perspectives and social interactions, the influence of global trends on education, the contributions and rights of Indigenous Peoples, and intercultural communication skills and group dynamics. This half-term, one-credit course is delivered with in-class and Moodle components.

Prerequisite: English 11 with a C+ minimum, or equivalent

STSS 1070 1 credits

Performing to Academic Standards (1,0,0)

Students develop critical thinking and problem-solving skills, and information fluency. Students practice and improve fundamental skills in research and writing, and utilizing library resources, that are required in post-secondary education and beyond, and gain a solid understanding of academic integrity. Topics include the issues of plagiarism, responsible research and citation (e.g., integrating quotations, paraphrasing, style and format for referencing), and developing solid arguments.

Prerequisite: English 11 with a minimum C+, or equivalent

TECH 3010 3 credits

Emerging and Disruptive Technologies (3,0,0)

The goal of this course is to develop the skills to anticipate and predict how disruptive technologies can be leveraged to move organizations forward. Using "design-thinking" methods, the student will develop the skills to assess and analyze the benefit or impact of new technologies in their workplace and integrate these technologies where appropriate. By the end of this course, the student should be able to select one or more technology trends, and based on research and analysis, determine how technology should be selectede, deployed and supported for strategic benefit of an organization.

Prerequisite: Third-year standing

TECH 4910 3 credits

Project Management 1 (3,0,0)

The goal of this course is to help the learner develop skills in the fundamentals of project management. Students will learn how to initiate, plan and execute a project that meets objectives and satisfies stakeholders.

Prerequisite: Third-year standing

TECH 4920 3 credits

Project Management 2 (3,0,0)

The goal of this course is to select a hypothetical, real life project or case study and effectively resolve project management challenges. Students will be expected to use practical strategies and tools in order to successfully manage a project to conclusion using known best practices guidelines from the Project Management Institute.

Prerequisite: TECH 4910

TESL 3010 3 credits

Curriculum and Instruction (3,0,0)

This course emphasizes the development and practical application of ESL teaching methodology. Topics include curriculum design; lesson planning; techniques for teaching reading, writing, listening, and speaking; evaluation; and assessment.

Prerequisite: Admission to the TESL program

Corequisite: TESL 3020, TESL 3030, TESL 3040

TESL 3020 3 credits

Pedagogical Grammar (3,0,0)

This course focuses on developing knowledge about the English language system in relation to grammar and prepares students to teach grammar to English Language learners.

Prerequisite: Admission to the TESL program

Corequisite: TESL 3010, TESL 3030, TESL 3040

TESL 3030 3 credits

Intercultural Communication Studies (3,0,0)

This course enables students to gain a better awareness and understanding of culture and values, including a definition of what they are and how they impact the ESL classroom. Students participate interactively while they examine theoretical models and perspectives in the field of intercultural communication.

Prerequisite: Admission to the TESL program

Corequisite: TESL 3010, TESL 3020, TESL 3040

TESL 3040 3 credits
TESL Techniques (3,0,0)
This course is an introduction to selected studies in current ESL teaching techniques used in teaching various ESL disciplines and contexts. The course is divided into three modules: second language acquisition theory, pronunciation, and assessment. In addition, the use of digital technology is explored. Students must successfully complete all 3 modules to receive credit for this course.

Prerequisite: Admission to the program

Corequisite: TESL 3010, TESL 3020 and TESL 3030

TESL 3050 3 credits
TESL Practicum (3,0,2)
The practicum is designed to prepare and support student-teachers throughout their classroom experience. Students plan and deliver lessons, discuss classroom management strategies, and reflect on their practicum sessions.

Prerequisite: Admission to the TESL program; TESL 3010, TESL 3020, TESL 3030, TESL 3040

Corequisite: TESL 3010, TESL 3020, TESL 3030, TESL 3040

TESL 3150 3 credits
TESL Educational Support Workers Practicum (3,0,2) 3 credits
The practicum is designed to prepare Educational Support Workers and/or tutors through development of their skills in planning and delivering level-appropriate English language. lessons within an elementary, secondary or tutoring environment Students observe one-to-one instruction in appropriate English as a Second Language settings, find and develop relevant materials for lesson delivery, are observed in practice and receive feedback related to their specific educational environment, and engage in reflective prractice related to their teaching.

Prerequisite: TESL 3010, TESL 3020, TESL 3030, TESL 3040

THTR 1000 3 credits
Theatre Appreciation: From Page to Stage (3,0,0)
This course is designed to enhance students' understanding and appreciation of today's theatre. Students read contemporary scripts selected from the current season of Western Canada Theatre and Actors Workshop Theatre, watch film versions of plays and attend live theatre performances.

THTR 1100 3 credits
Introduction to Theatre 1 (3,0,0)
A lecture and discussion-oriented course designed to acquaint students with the various aspects of the theatrical process such as acting, playwrighting, directing and designing. Students discuss theatre history, theory and criticism. Students are required to participate in practical projects and expected to attend local professional theatre productions.

THTR 1110 3 credits
Introduction to Acting (3,1,0)
This is a performance-oriented course designed to help students develop the basic requirements necessary for a dramatic presentation. The course focuses on stage movement, vocal training, improvisation, character development and portrayal.

THTR 1200 3 credits
Introduction to Theatre 2 (3,0,0)
Continuing from THTR 1100, this lecture and discussion-oriented course is designed to further explore the various aspects of the theatrical process such as acting, playwrighting, directing and designing. Students continue an in-depth discussion of theatre history, theory and criticism. Students are required to participate in practical projects and expected to attend local professional theatre productions.

Prerequisite: THTR 1100, or permission of the instructor

THTR 1210 3 credits
Introduction to Acting 2 (3,1,0)
A continuation of the work begun in THTR 1110, this course focuses on the analysis and development of character portrayal. An emphasis is placed on students working with a script and studying the actor's role in the performance situation.

Prerequisite: THTR 1110 or instructor's written consent

THTR 1500 3 credits
Play Production 1 (1,0,8P)
This course is designed for students who have auditioned and been cast in a TRU Actor's Workshop stage production. Students rehearse and perform, for public presentation, the play that is staged in the appropriate semester.

Prerequisite: Successful audition for a TRU Actor's Workshop Production

THTR 2110 3 credits
Acting and Character Portrayal 1 (3,1,0)
In this intermediate performance course, committed acting students further develop and polish the skills associated with the onstage presentation of completely drawn characters. Students analyze and practice the necessary techniques to effectively present character portrayals from the contemporary theatre. Exploration includes character and scene analysis, drama, comedy, and monologues.

Prerequisite: THTR 1210

THTR 2120 3 credits
Introduction to Theatre Production 1 (2,2,0)
This is a hands-on practical course designed to introduce students to the elementary principles of scenery and properties construction; stagecraft, lighting, electrical and audio operations; and costume construction.

THTR 2210 3 credits
Acting and Character Portrayal 2 (3,1,0)
In this intermediate performance course, a continuation from THTR 2110, committed acting students further develop and polish the skills associated with the onstage presentation of completely drawn characters. Students analyze and practice the necessary techniques to effectively present character portrayals from the contemporary theatre. Exploration includes character and scene analysis, drama, comedy, and monologues.

Prerequisite: THTR 2110, or permission from instructor

THTR 2220 3 credits
Introduction to TheatreProduction 2 (2,2,0)
Continuing from THTR 2120, this course is a hands-on practical course designed to introduce students to the elementary principles of scenery and properties construction; stagecraft, lighting, electrical and audio operations, and costume construction. In addition, students are introduced to stage management.

Prerequisite: THTR 2120 or instructor's written consent

Note: Credit cannot be given for both THTR 1120/1220 and 2120/2220

THTR 2310 3 credits
Acting for the Camera (4,0,0)
This course is the study of the basic techniques of acting for the camera with an examination of all the aspects of film production through lectures, demonstrations, and screenings. Students are required to participate in class scene work as well as outside class filming sessions to prepare taped scenes for evaluation.

Prerequisite: B- or better in THTR 1110, or permission from the instructor

THTR 2500 3 credits
Play Production 2 (1,0,8P)
Play Production is designed for students who have auditioned and been cast in a TRU Actor's Workshop stage production. Students rehearse and perform for public presentation the play that is staged in the appropriate semester.

Prerequisite: Successful audition for a TRU Actor's Workshop Production

THTR 3230 3 credits
Advanced Theatre Production 1 (2,2,0)
An advanced, practical course exploring direction and coordination of technical theatre elements such as lighting, sound, costumes, props and set that were introduced in THTR 2120 and THTR 2220. This course will include practicum work associated with all Actor's Worshop Theatre productions.

Prerequisite: THTR 2120 and THTR 2220

THTR 3240 3 credits
Advanced Theatre Production 2 (2,2,0)
An advanced, practical course building on Advanced Theatre Production 1. This course further explores direction and coordination of technical theatre elements such as lighting, sound, costumes, props and sets. This course will include practicum work associated with all Actors Workshop Theatre productions.

Prerequisite: THTR 3230

THTR 3410 3 credits
Design for the Theatre 1 (2,2,0)
This practical course explores the basic principles and techniques of design for the theatre including set, props, lighting and costume. This course includes practicum work associated with all Actors Workshop Theatre Productions.

THTR 3420 3 credits
Design for the Theatre 2 (2,2,0)
This practical course explores the basic principles and techniques of design for the theatre including set, props, lighting and costume and includes practicum work associated with all Actors Workshop Theatre

Productions. This course is a continuation of THTR 3410.

Prerequisite: THTR 3410

THTR 3500 3 credits

Play Production 3 (1,0,8P)

Play Production is designed for students who have auditioned and been cast in a TRU Actor's Workshop stage production. Students rehearse and perform for public presentation the play that is staged in the appropriate semester.

Prerequisite: Successful audition for a TRU Actor's Workshop Production

THTR 3600 3 credits

The Role: Interpretation and Characterization 1 (2,2,0)

This upper division acting course emphasizes externalizing the inner character in conjunction with work in textual analysis, improvisation and internal techniques. THTR 3600 students work with student directors where they learn and practice the role of the actor in a formal rehearsal setting.

Prerequisite: THTR 2210

THTR 3610 3 credits

The Role: Interpretation and Characterization 2 (2,2,0)

Building on THTR 3600, this upper division acting course emphasizes externalizing the inner character in conjunction with work in textual analysis, improvisation and internal techniques. Students work with student directors where they learn and practice the role of the actor in a formal rehearsal setting. The final assignment for this course is performing a role in a one-act play for the Directors Festival, which is the final production of the season for the Actors Workshop Theatre.

Prerequisite: THTR 3600

THTR 3700 3 credits

Effective Public Speaking (4,0,0)

This course is an experiential study of the principles and performance requirements necessary for effective public speaking through various literary styles, with an emphasis on audience, purpose and message.

THTR 3800 3 credits

Voice for the Stage (2,2,0)

A performance oriented course designed to further develop an approach for the establishment of a personal vocal production technique designed for the demands of stage performance. Areas of study include breath, alignment, various vocal elements as well as the basics of speech.

Prerequisite: THTR 1110 and THTR 1210

THTR 3990 3 credits

*****Selected Topics in Theatre (2,2,0)**

This is a variable content course that changes from semester to semester. Generally, the topics in this course complement or lie outside regular program offerings. Students engage in diverse, practice-based approaches to productions. Areas of study may include the business of acting, musical theatre, mask, devised theatre, and stage combat.

Prerequisite: Permission from the Theatre Program Coordinator

THTR 4000 3 credits

Direction and Staging 1 (3,2,0)

A study of the processes of stage direction and the development of a method for transferring the script to the stage. THTR 4000 students work with student actors where they learn and practice the role of the director in a formal rehearsal setting.

Prerequisite: THTR 3600 and THTR 3610

THTR 4010 3 credits

Directing and Staging 2 (3,2,0)

Building on THTR 4000, this course is a further study of the processes of stage direction and the development of a method for transferring the script to the stage. Students work with student actors where they learn and practice the role of the director in a formal rehearsal setting. The final assignment for this course is directing a one-act play for the Directors Festival, which is the final production of the season for the Actors Workshop Theatre.

Prerequisite: THTR 4000

THTR 4500 3 credits

Play Production 4 (1,0,8P)

Play Production is designed for students who have auditioned and been cast in a TRU Actor's Workshop stage production. Students rehearse and perform, for public presentation, the play that is staged in the appropriate semester.

Prerequisite: Successful audition for a TRU Actor's Workshop Production

THTR 4600 3 credits

Acting Styles 1 (2,2,0)

This course examines 2 classic scripts and the eras in which they were written, through performance and dramaturgy, in order to comprehensively study select styles of acting from significant periods in history.

Prerequisite: THTR 2110 and 2210

THTR 4610 3 credits

Acting Styles 2 (2,2,0)

Building on THTR 4600, this course examines 2 classic scripts and the eras in which they are written through performance and dramaturgy in order to comprehensively study select styles of acting from significant periods in history.

Prerequisite: THTR 4600

THTR 4900 3 credits

Directed Studies - Special Topics in Theatre Arts (3,0,0)

This course is designed for theatre majors in their final year of studies. Students are provided an opportunity to work on a special topic in Theatre Arts with an individual Theatre Arts faculty member. Topics may include history, theory, criticism, performance, and technical theatre studies.

Prerequisite: Restricted to Theatre Majors in their final year of studies and faculty member approval following a written proposal

TMGT 1110 3 credits

Introduction to Tourism (3,0,0)

This course provides an introduction to tourism as an industry and a phenomenon. Topics covered during the semester will include the economic, social, environmental and political environment in which tourism operates at a global and local level. Students will be introduced to tourism products and experiences in BC and be given the opportunity to identify career opportunities in the tourism industry.

Prerequisite: English 12/English 12 First Peoples with a minimum of 73% (within the last five years), or Level 4 on the composition section of the LPI (within the last two years), or completion of ENGL 0600, or completion of ESAL 0570 and ESAL 0580 with a grade of C+ or better

Note: CONV 1011 is an alternate and equivalent course to TMGT 1110

TMGT 1140 3 credits

Human Resources Management (3,0,0)

Changing values, shifting demographics, evolving legislation and a growing emphasis on social responsibility are among the forces shaping the way we manage people today. In this course, students examine human resource management issues as they relate to human resource planning, the legal environment, recruitment and selection, evaluation and development, compensation, and emerging issues and trends in the tourism industry.Prerequisite: English 12/English 12 First Peoples with a minimum of 73% (within the last five years), or Level 4 on the composition section of the LPI (within the last two years), or completion of ENGL 0600, or completion of ESAL 0570 and ESAL 0580 with a grade of C+ or better

Note: Students cannot receive credit for both TMGT 1140 (C+ minimum) and HRMN 2820

TMGT 1150 3 credits

Marketing and Customer Service (4,0,0)

This course discusses the role, concepts and principles of marketing. It examines market research and planning, product pricing and costing, packaging, promotion, service as a primary product, advertising methods, target marketing, factors in consumer preference and assessment of guest satisfaction.

Prerequisite: English 12/English 12 First Peoples with a minimum of 73% (within the last five years), or Level 4 on the composition section of the LPI (within the last two years), or completion of ENGL 0600, or completion of ESAL 0570 and ESAL 0580 with a grade of C+ or better

Note: CONV 1061 is an alternate and equivalent course to TMGT 1150. Students cannot receive credit for both TMGT 1150 (C+ minimum) and MKTG 3430.

TMGT 1160 3 credits

Organizational Leadership in Tourism (3,0,0)

This course is designed to address the changes occurring in the workplace today. As many of the graduates of this program will find themselves in supervisory positions within the tourism industry, the course will be delivered from the perspective of a supervisor and how he/she fits into today's organizations.

Prerequisite: English 12/English 12 First Peoples with a minimum of 73% (within the last five years), or Level 4 on the composition section of the LPI (within the last two years), or completion of ENGL 0600, or completion of ESAL 0570 and ESAL 0580 with a grade of C+ or better

Note: Students cannot receive credit for both TMGT 1160 and ORGB 2810

TMGT 2010 3 credits

Financial Operations Control in Tourism (3,0,0)

This course offers students an understanding of how they can use managerial accounting skills in their careers in the tourism industry. Students use accounting information for decision making, planning and control in the areas of marketing, operations, human resources, strategic investment, business erformance evaluation, and budgeting.

Prerequisite: English 12/English First Peoples with a minimum of 73% or equivalent (within the last five years)

ACCT 1000-Introduction to Financial Accounting

TMGT 2060 3 credits

People, Places and the Toured Landscape (3,0,0)

This course provides students with a historical, geographical and cultural context for understanding tourism. Attention is given to the way tourism practices have unfolded over time in various regions of the world, and the way in which visual representation and written narrative shapes the tourism landscape. Global and local themes affecting the tourism product and experience are discussed.

Prerequisite: English 12/English 12 First Peoples with a minimum of 73% (within the last five years), or Level 4 on the composition section of the LPI (within the last two years), or completion of ENGL 0600, or completion of ESAL 0570 and ESAL 0580 with a grade of C+ or better

TMGT 2070 3 credits

Staging Special Events (3,0,0)

This course is a basic introduction to the skills and terminology of the technical aspects of staging festivals, special events, concerts and conventions. Learners will be exposed to some of the fundamentals of staging including set design, lighting, and sound.

Prerequisite: CONV 2260

TMGT 2080 3 credits

Culinary Tourism (3,0,0)

Students are introduced to the concepts and research associated with culinary tourism from an academic and industry perspective. Using global case studies, students review current trends, theories, culinary tourism products and profiles of culinary tourists.

Prerequisite: English 12/English 12 First Peoples with a minimum of 73% (within the last five years), or Level 4 on the composition section of the LPI (within the last two years), or completion of ENGL 0600, or completion of ESAL 0570 and ESAL 0580 with a grade of C+ or better

TMGT 2090 3 credits

Wellness Tourism (3,0,0)

Tourism supports a process of self-regeneration for the traveler. This course focuses on the development,management and marketing of wellness tourism as a global phenomenon. The concept of wellness implies a holistic understanding of the traveler's body, mind and spirit and the creation of a balance in the different areas of one's life.In this course students examine the history, origins and scope of wellness tourism and the products and services being developed to address this expanding sector of the tourism industry.

Prerequisite: English 12/English 12 First Peoples with a minimum of 73% (within the last five years), or Level 4 on the composition section of the LPI (within the last two years), or completion of ENGL 0600, or completion of ESAL 0570 and ESAL 0580 with a grade of C+ or better

TMGT 2250 3 credits

Hospitality Law (3,0,0)

In this course, students are introduced to the legal rights, responsibilities and obligations of organizations in the hospitality industry. This industry operates under a combination of Common Law and Statute Law passed by both federal and provincial legislature. Emphasis is placed on the legal problems regularly faced by business firms within this industry and their possible solutions.

Prerequisite: English 12/English 12 First Peoples with a minimum of 73% (within the last five years), or Level 4 on the composition section of the LPI (within the last two years), or completion of ENGL 0600, or completion of ESAL 0570 and ESAL 0580 with a grade of C+ or better

Note: CONV 1050 is an alternate and equivalent course to TMGT 2250. Students cannot receive credit for both TMGT 2250 (C+ minimum) and BBUS 3930.

TMGT 2500

Field Trip Activity Fee (Year 2 Tourism Management Diploma)

Required for all second year students of the Tourism Management Diploma Program. The opportunity to better understand the concepts discussed in the classroom by exposure to their application in industry.

TMGT 2590 3 credits

Entrepreneurship (4,0,0)

This course is designed to introduce students to entrepreneurship. Students examine the role and nature of entrepreneurship as a mechanism for creating new ventures along with career opportunities, and some methods forindividual self-assessment. Additional topics include generating ideas for a business venture, opportunity analysis, locating and mobilizing resources, and developing a business plan.

Prerequisite: TMGT 1150 and TMGT 2010 or equivalent

TMGT 2610 3 credits

Environmental Issues in the Tourism Industry (3,0,0)

The rapid growth of tourism on a global scale has resulted in significant negative environmental impacts, and there is increasing concern about the relationship between tourism and the environment, both natural and cultural. This course explores the challenges facing the tourism industry in attempting to create a balance between environmental and economic concerns. The rich history of the conservation movement and development of the national parks system provides a lens through which to understand the foundation of the North American tourism industry. In addition, students examine the current "greening" of the tourism industry.

Prerequisite: English 12/English 12 First Peoples with a minimum of 73% (within the last five years), or Level 4 on the composition section of the LPI (within the last two years), or completion of ENGL 0600, or completion of ESAL 0570 and ESAL 0580 with a grade of C+ or better

TMGT 2980 6 credits

***** Special Topics in Tourism (3,0,0) or (6,0,0)**

The content in this course varies depending on the interests of faculty and students. Credits for the course are determined as per Policy ED-8-0.

Prerequisite: Permission from the Tourism Management Department

TMGT 3000 3 credits

Practicum in Tourism (0,1,8P) 3 credits

This 3-credit course is designed to provide students with a meaningful opportunity to relate current theory from classroom to a practical Canadian work experience context, under the direction of professionals in extended work assignments.

Prerequisite: This course is only available to students who have been admitted into a Faculty of Adventure, Culinary Arts and Tourism Post-Baccalaureate Diploma program and are in their second year of study in these programs

TMGT 3010 3 credits

Community and Cultural Issues in Tourism (3,0,0)

Students are introduced to the ways in which cultures meet and interact in tourism settings. Consideration is given to intercultural communications, cross-cultural issues, and challenges in meeting the needs of both the â€œhost" community and the â€œguest" from a tourism perspective. Students explore the range and diversity of cultural narratives and place-based approaches for developing cultural tourism experiences.

Prerequisite: 3rd year standing

Recommended: TMGT 2610 and/or TMGT 2060

TMGT 3020 3 credits

Tourism Policy and Planning (3,0,0)

Students are introduced to policy and planning theories and their application to tourism. The relationship between tourism, public policy, planning, and development is also examined.

Prerequisite: 3rd year standing

TMGT 3030 3 credits

Financial Management for Tourism (3,0,1)(L)

This course examines the principles of financial management as they apply to firms in tourism and hospitality sectors. Topics covered include financial statement analysis; budgeting; time value-of-money; profit planning and decision-making; cost-volume-profit analysis; and capital budgeting. Special topics in hospitality and tourism include management contracts; franchising; revenue management; and Real Estate Investment Trusts (REITS).

Prerequisite: TMGT 2010 or equivalent and third year standing

Note: Students cannot receive credit for both TMGT 3030 and FNCE 3120. Students should be computer literate and proficiently use spreadsheet and presentation software.

TMGT 3040 3 credits

Land Use Management and Tourism (3,0,0)

Students are introduced to the theory and practice of land use planning and management in western Canada. Students review various land use designations that are important to tourism development, the policies and processes for developing commercial recreation on crown land, and

various management strategies aimed at optimizing the use of natural areas for quality recreation and tourism experiences.

Prerequisite: 3rd year standing

TMGT 3050 3 credits

Research in Tourism (3,1,0)

Students engage in the process of conducting and evaluating research in the field of tourism.

Prerequisite: GEOG 2700 or a course in research methodology or statistics approved by the Department AND third year standing

Note: Students cannot receive credit for both MKTG 3480 and TMGT 3050

Required Seminar: TMGT 3050S

TMGT 3980 6 credits

*****Special Topics in Tourism (3,0,0) or (6,0,0)**

Course content varies depending on the interests of faculty and students. Credits for the course are determined as per Policy ED-8-0.

Prerequisite: Permission from the Tourism Management Department

TMGT 4010 3 credits

Experience Creation and Product Development (3,0,0)

This course deals with the concept of experiences as products and the overall development of new products/services in the tourism field. Students will explore the foundations and theories of an "experience-driven" enterprise or economy from both the consumer (tourist) and producer (firm or destination) perspective. Emphasis is placed on undertaking new tourism product inventories to ensure the provision of engaging experiences and vivid memories for guests. Prerequisite: TMGT 1150 or equivalent and third-year standing

TMGT 4020 3 credits

Graduating Seminar (0,3,0)

Students conduct research and create a professional presentation of a major project with a direct application to the tourism industry.

Prerequisite: TMGT 3050 and either 4th year standing in the Bachelor of Tourism Management program or 2nd year standing in a Faculty of Adventure, Culinary Arts and Tourism post-baccalaureate diploma

TMGT 4030 3 credits

Resort Management (3,0,0)

Students develop an understanding of how and why resort properties are developed as tourist destinations. The focus is on the planning, development, operation, design, financing, and special needs of resort properties.

Prerequisite: 3rd year standing

TMGT 4040 3 credits

Tourism and Sustainable Development (3,0,0)

Students examine the social, environmental, economic and political aspects of planning, developing, and sustaining tourism destinations. The major focus is on the benefits and impacts associated with tourism activities, and the importance of planning at the regional and community level.Prerequisite: 3rd year standing

TMGT 4050 3 credits

Event Tourism (3,0,0)

This course examines the emerging field of event tourism and identifies market opportunities and trends. Students explore the important role events play in destination marketing and development as catalysts, animators, image makers and tourist attractions. The impact of events on destinations from a economic, cultural and social perspective is also a focus of the course.

Prerequisite: 3rd year standing

TMGT 4060 3 credits

*****Selected Topics in Tourism (3,0,0)**

Students are introduced to various issues and events that influence the travel and tourism industry. Course topics vary to ensure a timely coverage of issues and trends.

Prerequisite: 3rd year standing

TMGT 4070 3 credits

Directed Studies in Tourism (0,3,0)

In this independent study course students investigate a specific field or topic in tourism. Consultation with, and permission of, a Bachelor of Tourism Management faculty member and the Dean is required.

Prerequisite: TMGT 3050, 4th year standing and permission of the Chair and Dean

TMGT 4080 3 credits

Reflecting Philosophically on Tourism (3,0,0)

Students are required to reflect on their tourism knowledge and practice in a deep theoretical and philosophical manner, and examine their own positions and values as future professionals in the tourism field. Drawing largely on classic and contemporary writings in philosophy and social theory outside the tourism canon, students cultivate an understanding of the unquestioned and presumed ideologies that lie behind some of today's most problematic tourism practices. Students are exposed to theoretical and philosophical positions that present an alternative way forward.

Prerequisite: 4th year standing

TMGT 4090 3 credits

The Culture of Events (3,0,0)

This course will chronicle significant events in world history from organizational, communications, and cultural studies perspectives. The goal of the course is to familiarize students with the development of the event-planning phenomenon from pre-modern, through modern, and post-modern innovations.

Prerequisite: 3rd year standing

TMGT 4100 3 credits

The Social Side of Tourism (3,0,0)

Travel is intertwined with issues of personal identity and growth, cultural beliefs and values, power, and social change. Students explore these issues, and more, in the search for a deeper understanding of the phenomenon of tourism and its consequences for individuals and societies.

Prerequisite: 3rd year standing

TMGT 4110 3 credits

Innovation and Leadership in Tourism (3,0,0)

Students are introduced to theories, definitions and categorizations of innovation, including the precondition of commercial value production as a tourism business concept. The roles of leadership and organizational culture in innovation are also examined, including styles, techniques, personality profiles, and examples or cases from applications in tourism and other modern enterprises.

Prerequisite: TMGT 1150 or equivalent and 3rd year standing

TMGT 4120 3 credits

Developing New Tourism Enterprises (3,0,0)

Building upon the foundation laid in TMGT 4010: Experience Creation and Product Development, this course guides students through the process of conceiving and planning a new tourism business. Topics include evaluating business opportunities and start-up strategies, resource requirements for a new business, financing new ventures, and the business start-up process.

Prerequisite: TMGT 4010 or equivalent AND TMGT 3030 or equivalent AND 3rd year standing

Note: Students cannot receive credit for both TMGT 4120 and BBUS 4750/ENTR 4750

TMGT 4130 3 credits

Tourist Behaviour (3,0,0)

Students explore the determinants that shape tourist behaviour, including travel and tourism motivations; destination choice; personality and psychographics; the tourist decision process; the tourist experience; and post-experience behaviour. Using both a theoretical and applied approach, students examine how and why people purchase and consume travel and tourism products.

Prerequisite: TMGT 1150 or equivalent and 3rd year standing

Note: Students cannot receive credit for both TMGT 4130 and BBUS 3470

TMGT 4140 3 credits

Tourism Strategy (3,0,0)(L)

This course explores strategic management and planning in a tourism context. Using both a theoretical and practical approach, students examine the concepts of strategic planning and competitive strategy and how they can be successfully applied by tourism organizations in an increasingly complex and global tourism environment.

Prerequisite: TMGT 1150 or equivalent and 3rd year standing

Note: Students cannot receive credit for both TMGT 4140 and BBUS 4460/MKTG 4460

TMGT 4150 3 credits

Managing Small Tourism Enterprises (3,0,0)

Students examine the environment of small tourism firms and the unique challenges of management both in growth-oriented and small 'lifestyle' tourism firms. The focus is on formulating and developing strategies that allow these firms to thrive in this dynamic and highly competitive environment.

Prerequisite: TMGT 1150 or equivalent and 3rd year standing

Note: Students cannot receive credit for both TMGT 4150 and ENTR 4760/BBUS 4760

TMGT 4160 3 credits

Tourism in a Global Environment (3,0,0)

Students examine tourism and its dynamics from a global perspective. Specifically, students develop a thorough understanding of tourism as an economic, political, social, cultural and environmental force on the world stage, the impacts of this influence, and the strategies that tourism businesses can adopt to thrive in this environment.

Prerequisite: 3rd year standing

TMGT 4170 3 credits

Information Technology and Tourism (3,0,0)

Students examine the relationship between information technology (IT) and tourism from both a consumer and organizational perspective. Specifically, the course encourages students to critically evaluate current and emerging developments in IT and their impact on tourism consumers and suppliers. Students also develop an understanding of how IT can be used to facilitate and promote innovation and support the overall strategic objectives of a firm.

Prerequisite: 3rd year standing

TMGT 4180 3 credits

Managing the Tourist Experience (3,0,0)

The tourism product holds an important position in the fast growing experience economy, requiring firms that are marketing these intangible products, to overcome unique challenges. In this course, students are provided with the concepts, tools, and strategic focus to effectively manage the tourist experience and to investigate how experiences are designed, delivered, and evaluated. Students are encouraged to employ innovative approaches in the application of their acquired knowledge to real business settings.

Prerequisite: TMGT 1150 or equivalent AND TMGT 3050 or equivalent AND 3rd year standing

TMGT 4210 3 credits

Casino Operations Management (3,0,0)

This course explores the relationship between tourism development, hospitality services and casino operations. Topics include the development and current status of gaming in Canada, identification of different types of gaming operations, identification of stakeholders and the costs and benefits of casino establishments to the local community, comparison of gaming laws, controls and fundraising opportunities. This course will also identify marketing and management strategies for casino operations in a tourism setting.

Prerequisite: Third-year standing

TMGT 4220 3 credits

Mountain Studies (3,0,0)

Mountain Studies allows students the opportunity to engage in an interdisciplinary study of mountain environments, communities, resorts, activities, web presence, arts, sustainability and destination experiences with an emphasis on undergraduate research. topics vary from year to year. Potential areas of focus include mountain culture (literature, painting, film, photography, history, new media) and web-mapping with the provision of rich content; the development and sustainability of mountain national parks in Western Canada; mountain literature and art; comparative studies of the mountain resorts that ring TRU; mountains and participant-observer new media applications; and public relations and mountain resorts. Prerequisite: 3rd year standing

TMGT 4800 3 credits

Tourism Enterprise Consulting Project (0,3,0)

Students build upon and apply the knowledge and skills, acquired in previous work experience and courses in the Bachelor of Tourism Management program, in a consulting assignment for a small- to medium-sized tourism enterprise. Students secure a consulting assignment with a business organization, and work closely with the owner and/ or managers to identify a specific problem or challenge facing the firm. Students are then expected to set objectives, research, prepare, and present a report that addresses this problem.

Prerequisite: TMGT 3050, permission of the instructor, and either 4th year standing in the Bachelor of Tourism Management program or 2nd year standing in a Faculty of Adventure, Culinary Arts and Tourism Post-Baccalaureate diploma

TMGT 4980 6 credits

*****Special Topics in Tourism (3,0,0) or (6,0,0)**

Course content varies depending on the interests of faculty and students. Credits for the course are determined as per Policy ED-8-0.

Prerequisite: Permission from the Tourism Management Department

TMGT 4990 6 credits

Honours Thesis (0,3,0)(0,3,0)

Students conduct an original research project in the Honours Program of the Bachelor of Tourism Management (BTM) Degree. The project is completed under the direction of a faculty member from the School of Tourism. Students accepted into the BTM Honours Program register for this course in both the fall and winter semesters of their final academic year.

Prerequisite: 4th year standing in the Bachelor of Tourism Management Honours Program and TMGT 3050

TMPT 1000 16 credits

Transportation and Motive Power Foundations (500 hours)

This course will introduce students to the full range of knowledge, abilities and skills required to diagnose, repair, adjust, overhaul, maintain, operate and test commercial trucks, emergency vehicles, buses, commercial trailers, road transport vehicles and vehicles with alternative fuel systems and hybrid drives.

Prerequisite: Admission into the Diploma of Transportation and Motive Power program

TMPT 2000 24 credits

Principles of Transportation Systems (725 hours)

This course will provide students with an in-depth understanding of how to diagnose, repair, adjust, overhaul, maintain, operate and test steering, suspensions, powertrains, electrical systems and heating/ventilation/air conditioning systems.

Prerequisite: Successful completion of TMPT 1000

TMPT 3000 10 credits

Advanced Principles of Transportation Systems (300 hours)

This course will provide students with an in-depth understanding of the advanced technologies, principles and systems within the transportation and motive power industry. Upon completion, students will be able to compare original equipment manufacturers products and use appropriate technology to solve problems.

Prerequisite: Successful completion of TMPT 2000

TROW 1010 4 credits

Theory for Trowel Trades (100 hours) 4 credits

This course covers theory related to the installation of bricks, stone, tiles, concrete finishing and stucco. Topics include: proper operation and set-up of portable equipment; ladders and scaffolding; safe work practices required on a job-site; and the proper use and application of personal protective equipment.

TROW 1110 15 credits

Shop Practical for Trowel Trades (500 hours) 15 credits

Theory is integrated into practical experience with the hands-on installation of bricks, stone, tiles, concrete finishing and stucco. Topics include: the proper operation and set-up of portable equipment, ladders and scaffolding; safe work practices required while working on a job-site; and the proper use and application of personal protective equipment.

TTME 4000

Truck and Transport Mechanic Apprenticeship Level 4 (120 hours)

This fourth level apprenticeship course is designed as the final training level for a Truck and Transport Mechanic Tradesperson. They possess the full range of knowledge, abilities and skills required to diagnose, repair, adjust, overhaul, maintain, operate and test commercial trucks, emergency vehicles, buses, commercial trailers and road transport vehicles. They may also work on recreational vehicles and vehicles with alternative fuel systems and hybrid drives.

Prerequisite: HDMC 300 or equivalent and ITA sponsorship

VISA 1000 3 credits

Art Worlds (3,0,0)

Students are introduced to visual art and its practices across cultures. Emphasis is placed on the development of visual literacy through the consideration of art works, concepts and practices in different cultures. Students study the visual elements, media, art history and methods used to create and interpret various forms of visual art. Students learn how to appreciate, analyze, evaluate and contextualize a broad range of art works through presentations, readings and written assignments.

VISA 1010 3 credits

2D Creative Design: Thinking and Making (3,1,0)(L) Studio

This course is an introduction to the practices of contemporary visual art. Students are introduced to the elements and principles of two dimensional art and design through various projects that integrate basic fundamentals of design with contemporary ideas about art. The course covers: subject matter, content, elements of design such as line, shape, value, texture and colour, and organizing principles of composition. Students participate in studio work, group critiques, and seminars. Studio courses require students to work during class time as well as outside of class time.

VISA 1020 3 credits
2D Art Foundation 2 (3,1,0)(L)
This course builds on the understanding of elements and principles of design as students explore a range of techniques and mediums in contemporary and traditional formats. Students originate and develop creative ideas in their assignments with the objective of making artworks suitable for display. The course samples areas in painting, printmaking and photographic media.

Prerequisite: VISA 1010

VISA 1030 3 credits
3D Foundation (3,1,0)(L) Studio
This course introduces a range of materials, objects, techniques, and ideas fundamental to three dimensional aspects of visual art. Students are introduced to the equipment and safe working procedures of the Visual Arts carpentry workshop. Lectures and seminars are used for the discussion and critique of students' projects in relation to the history and contemporary practice of visual artists. Students are expected to work independently in the Visual Arts studios outside class time towards the completion of their course work.

Prerequisite: None

VISA 1040 3 credits
Fundamentals of Photography (3,1,0)(L)
As an introduction to photography, the curriculum focuses primarily on the technical aspects of black and white analog photography as well as digital photography. The main objective is the use of photography as an artistic medium. An understanding of the technical and aesthetic aspects of photography is carried out in the context of an ongoing study of contemporary and historic photographic practice. Students are expected to complete assignments outside of regularly scheduled class hours.

Prerequisite: None

Note: Credit for this course cannot be used towards a Bachelor of Fine Arts Degree nor a Diploma in Visual Art

VISA 1110 3 credits
History of Art 1 (3,1,0)
This course is a survey of the arts of painting, sculpture, and architecture, from pre-history up to the Renaissance.

VISA 1120 3 credits
History of Art 2 (3,1,0)
This course is a survey course in Art History, from the Renaissance to the 21st Century.

Prerequisite: VISA 1110

VISA 1210 3 credits
Drawing 1 (3,1,0)(L) Studio
Students are introduced to the fundamentals of drawing, covering formal elements and general types of drawings, basic skills, and composition including practical techniques for seeing and drawing effectively. Through the exploration of a range of drawing media, subjects, and processes, the student explores both historical and contemporary image making related to drawing. Visual references, group critiques, discussions and readings combine to enhance studio work.

VISA 1220 3 credits
Drawing 2 (3,1,0)(L) Studio
Building on basic drawing skills, history and theory, students explore the use of texture, colour, layering, and proportion/distortion, with an emphasis on content, composition, choice of media and surface. Visual references, group critiques, discussions and readings strengthen students' knowledge of theory. Practical aspects of assignments are introduced in class, however, students are advised to timetable studio time in addition to class time in order to complete assignments for critique.

Prerequisite: VISA 1210

VISA 1500 3 credits
Introduction to Visual Culture (HTA) (3,0,0)
This course is an interdisciplinary investigation of culture through the study of our visual environment. Students beginning with historical foundations of contemporary Western ways of seeing and the development of a critical framework for understanding and deconstructing images. Students then proceed to an investigation of various forms of visual communication such as television, film, video, the Internet, billboards, graffiti, new technologies, and other image-making sources. This is a lecture class: no drawing skills are required.

Prerequisite: None

VISA 2110 3 credits
History of Art: Renaissance Art and Architecture (3,0,0)(L) HTA
Students study the history of Renaissance art and architecture.

Prerequisite: VISA 1120

VISA 2120 3 credits
History of Art: Seventeeth and Eighteenth Century Art (3,0,0) HTA
Students study seventeenth and eighteenth Century art and architecture.

Prerequisite: VISA 1120

VISA 2130 3 credits
A Survey of Modern Art 1 (HTA) (3,0,0)
This course identifies the origins of Modern Art in the mid-ninteenth Century and traces its development up to World War II. This course emphasizes evidence of artists who moved European art from the narrative tradition to secularism and the subsequent explosion of change in the first decade of the 20th Century.

Prerequisite: VISA 1120

VISA 2140 3 credits
Art: 1945 to the 21st Century (3,0,0) HTA
Students explore Art after World War II to Post-Modernism and the 21st Century.

Prerequisite: VISA 1120

VISA 2150 3 credits
History of Canadian Painting (3,0,0) HTA
Students survey the art of painting, from the colonial periods of the French and English in Canada up to, and including, recent concerns in Canadian painting.

VISA 2210 3 credits
Drawing 3 (3,1,0)(L) Studio
Students are encouraged to become more experimental and individualized in their approach to studio work. Students develop and address the subject, content and form of their drawings through practice and in verbal and written forms. Students explore key historical and current issues in contemporary drawing.

Prerequisite: VISA 1220

VISA 2220 3 credits
Drawing 4 (3,1,0)(L) Studio
Students pursue independent research and practice related to contemporary drawing. Seminars, group critiques and visual lectures complement students' development. Students gain a working knowledge of selected topics related to historical and contemporary practice of drawing in order to define and discuss their work in a present-day context. Students are expected to be self-motivated and prepared for independent practice.

Prerequisite: VISA 2210

VISA 2310 3 credits
Sculpture 1 (3,1,0)(L) Studio
This course introduces students to sculptural materials, techniques and ideas. Students gain practical experience in sculptural practices of both an historical and an experimental, contemporary nature. Key historical and current issues in contemporary sculpture are explored through lectures, seminars, and critiques of student work. Through these activities, students develop a basis for addressing the subject, form, and content of their artworks.

Prerequisite: VISA 1030

VISA 2320 3 credits
Sculpture 2 (3,1,0)(L) Studio
Students explore a wide variety of media, skills, and strategies that define contemporary sculpture. Students are encouraged to develop individual content and to consider their work in a contemporary context, verbally and in writing. Students are introduced to aspects of contemporary sculptural practice, including installation and experience-based practice as a means of expanding upon considering sculpture as physical, three-dimensional objects. In-class demonstrations broaden students' range of technical processes.

Prerequisite: VISA 2310

VISA 2510 3 credits
Printmaking: Screen-Printing 1 (3,1,0)(L) Studio
Students are introduced to basic techniques of water-based screen-printing, such as stenciling techniques, digital and hand-drawn transparencies, light sensitive emulsions and registration. Through the production of their own imagery and artwork, students explore the conceptual and practical aspects of contemporary print media. Instruction includes lectures, demonstrations and critiques of students' work.

Prerequisite: VISA 1020

VISA 2520 3 credits
Printmaking: Screen-Printing 2 (3,1,0)(L) Studio
Students advance their skills in water-based screen-printing. The use of digitally generated transparencies combined with hand drawn stencils is emphasized. Students work with computer-based software

(Photoshop) to prepare continuous tone images, halftones, and duotones suitable for printing. Colour separation processes such as CMYK are introduced. Emphasis is placed on technical competency as students develop creative ideas in the context of contemporary artistic practice through printing screen editions.

Prerequisite: VISA 2510

VISA 2530 3 credits

Printmaking: Relief-Printing (3,1,0)(L) Studio

This introductory course in printmaking emphasizes the basic processes of relief and intaglio printing. Students consider a variety of mediums such as linocut, woodcut, collograph and metal plate printing. Students explore printmaking as an artistic practice in contemporary art, and advance their understanding of how current approaches relate to relief and intaglio prints of the Western European masters.

Prerequisite: VISA 1020

VISA 2540 3 credits

Printmaking: Etching and Intaglio (3,1,0)(L) Studio

This course emphasizes the etching-intaglio processes. Students further develop medal plate-printing using colour processes, chine-collÃ© and multiple plate printing. Students examine historical and contemporary approaches to these mediums as well as an ongoing exploration of personal imagery.

Prerequisite: VISA 1020 or VISA 1210

VISA 2550 3 credits

Printmaking: Lithography 1 (3,1,0)(L) Studio

Students are introduced to fundamental techniques of black and white lithography, involving drawing on limestone and on metal plates. Processes in etching and printing are practiced in order to print editions of consistent prints. Students develop personal image-making and demonstrate technical concepts in the medium of lithography.

Prerequisite: VISA 1020

VISA 2560 3 credits

Printmaking: Lithography 2 (3,1,0)(L) Studio

Students continue the practice of drawing on lithographic limestone and metal plates in black and white, and are introduced to color printing methods. Individual specialization in the mediums of photo-lithography, polyester plates, and plate lithography is demonstrated. Students practice the craft of lithography and are encouraged to develop personal imagery in the context of existing histories of printmaking, especially of lithography, as an artistic practice. Instruction includes lectures, demonstrations and critiques of students' work.

Prerequisite: VISA 2550

VISA 2610 3 credits

Painting 1 (3,1,0)(L) Studio

Students examine the fundamentals, materials and techniques of acrylic painting and related media. Emphasis is placed on formal aspects of painting, composition, colour, tonal relationships, and spatial concepts. Critiques, visual presentations, and projects engage historical and contemporary issues in painting. Students integrate conceptual knowledge and creative skills into their projects.

Prerequisite: VISA 1020

VISA 2620 3 credits

Painting 2 (3,1,0)(L) Studio

This course introduces oil painting processes and related media in a contemporary context. Further development of personal subject matter, process, and content is encouraged. Visual presentations, seminars, and critiques form the basis for explorations of oil painting through assigned projects. Students are expected to complete paintings in the studio outside of regular class time.

Prerequisite: VISA 2610

VISA 2710 3 credits

Introduction to Photography 1 (3,1,0)(L) Studio

Students are introduced to the technical aspects of black & white analog and digital photography and the use of photography as a contemporary expressive and conceptual artistic medium. Technical and aesthetic aspects of photography are explored in the context of contemporary and historic photographic practice. A range of equipment, including 35mm single-lens reflex cameras, are utilized. Students are expected to complete assignments outside of regularly scheduled class hours.

Prerequisite: VISA 1020

VISA 2720 3 credits

Introduction to Photography 2 (3,1,0)(L) Studio

This course involves further technical and aesthetic refinement and exploration of camerawork, digital applications, printing and studio techniques. Students use these skills to produce artwork within the study of contemporary artists working with photo-based media. Students are expected to find further studio time in order to complete assignments introduced and discussed in class.

Prerequisite: VISA 2710

VISA 2780 3 credits

Video Production 1 (2,0,1)(L)

Students learn basic theory and practical aspects of digital video production including: video camera use; basic video handling and sequence editing; basic sound editing; and introduction to special effects. Students are introduced to the history and theory of new media and artistic expressions using digital media in contemporary art, and in the theory and history of documentary filmmaking.

Prerequisite: VISA 1010

VISA 3010 3 credits

Gallery Studies: Exhibition Curating (2,1,0) HTA

This course provides an overview of curatorial practice; students examine the types of exhibitions common to public and artist-run galleries in Canada, as well as regional, national, and international survey exhibitions. Emphasis is placed on learning to write about artists' works in the context of contemporary art theory and working with artists towards planning an exhibition. Where possible, exhibitions at art galleries in the Kamloops region are used as a basis for these studies.

Prerequisite: Completion of 45 credits and VISA 1120 or VISA 1500

VISA 3020 3 credits

Gallery Studies: Exhibition Installation (1,2,1)(L) Studio

Students learn basic principles and techniques for the preparation and installation of artworks in a variety of formats. These are skills useful to artists and common to the staff at art galleries and museums. Students learn such techniques as creating frames and display apparatus appropriate to both two dimensional and three dimensional artworks, and consider the display of artworks of a more experimental nature. TRU's Visual Arts Gallery and/or the Kamloops Art Gallery may be used as a basis for some of these studies.

Prerequisite: 12 VISA Studio credits and VISA 1030

VISA 3030 3 credits

Gallery Studies: Gallery Administration (2,1,0)

Students study various types of galleries that exist in Canada, and the ways in which their management and programming are structured. The range of galleries considered includes public and private galleries as well as artist-run spaces. Students study the various roles or positions in a gallery, including Director, Curator, Registrar, and installation staff, as well as volunteers, various committees and the Board of Directors. Students also explore granting agencies for the visual arts in Canada, including those at the municipal, provincial and national levels.

Prerequisite: Completion of 45 credits and VISA 1120 or VISA 1500

VISA 3040 3 credits

Gallery Studies: Public Art (2,1,0)

In this course students will study the function of art created for public spaces as well as the collecting of art in public institutions. In considering the role of art created for public spaces this study will combine a historic overview with an examination of works commissioned by recent and contemporary artists. Similarily, the study of collections held by such organizations as the Canada Council and public galleries in Canada will be contextualized within an understanding of the historical development of museum and gallery collections. These studies will also include such topics as: policy development; cataloguing collections; application and jurying processes for public commissions, and working with scaled plans.

Prerequisite: Completion of 45 credits and VISA 1120 or VISA 1500

VISA 3130 3 credits

History of Photography (3,0,0) HTA

Students examine photography with an emphasis on European and North American traditions in a global context. The relationship of photography to other disciplines of the visual arts and to media culture is considered. The study of various aesthetic and social movements related to photography, such as modernism, post-modernism, and feminism is also covered. This complements courses in other academic areas that examine material and technological culture in the nineteenth, twentieth and twenty-first centuries.

Prerequisite: Completion of 45 credits

VISA 3150 3 credits

Art of the Italian Renaissance: Painting (2,1,0) HTA

Students study the major works of Italian Renaissance painting from the rise of the city-states (c. 1250) to the phenomenon of Mannerism of the 16th-century. Topics include the new conception of the artist and the changing role of the patron as well the transformation of traditional artistic genres to the humanist approach to the painting of the

Renaissance. Painters studied in this course range from Giotto to late Michelangelo.

Prerequisite: VISA 1120 and completion of 45 credits

VISA 3160 3 credits

Art of the Italian Renaissance: Sculpture/Architecture (3,0,0) HTA

Students study the major works and innovations within sculpture and architecture during the Italian Renaissance. Starting with the Florence Cathedral Baptistery and Dome, the course will follow the development of sculpture and architecture from the early Renaissance up to and including developments in Mannerism. Sculptors and architects for study in this course will range from Ghiberti and Brunelleschi to Michelangelo and Romano.

Prerequisite: VISA 1120 and completion of 45 credits

VISA 3310 6 credits

Sculpture/Intermedia (1,2,1)(1,2,1)(L) Studio, CPA

The course focuses on finding the the most effective sculptural medium or media for exploring thematic ideas and students' individual interests. Along with considering current and/or traditional sculpture techniques, the course encourages an interdisciplinary approach in which students may draw upon other courses and experiences. Students are exposed to, and employ, a wide variety of approaches, ranging from sculpture's long-standing interest in physical objects to contemporary use of installation and time-based media.

Prerequisite: VISA 1030 or VISA 2320 and completion of 45 credits

VISA 3510 6 credits

Printmaking (2,2,0)(2,2,0)(L) CPA, Studio

This course draws on the processes of etching and intaglio encouraging students to work with advanced plate-making techniques. Colour printing, the use of multiple plates, photo-etching and specialized processes are demonstrated. Different forms of presentation for the printed image are explored through artists' books and contemporary prints. Greater emphasis is given to technical considerations and the development of a personal image-making. Techniques demonstrated encourage work of increasing complexity.

Prerequisite: VISA 2540

VISA 3520 3 credits

Printmaking: Advanced Screen-Printing (2,2,0)(L) CPA, Studio

Students utilize advanced techniques of screen-printing towards artistic research and production. Techniques include computer generated positives, photographic technology, alternative inks, printing on unique surfaces and a combination of stencilling methods. Students create a body of artwork that demonstrates conceptual knowledge of contemporary screen-printing. Examples of artwork by contemporary artists who work in the screen-printing discipline are emphasized. Students are encouraged to pursue a personal direction in their image-making.

Prerequisite: VISA 2520

VISA 3610 3 credits

Painting 3 (3,1,0)(L) CPA, Studio

This course encourages an increasingly creative and individualized approach to painting. Through lectures, seminars, critiques and readings, key historical and current issues in contemporary painting are examined. Emphasis is placed on establishing students' research and critique skills to address the subject, content, and form of their paintings in both visual and verbal forms.

Prerequisite: VISA 2620

VISA 3620 3 credits

Painting 4 (2,2,0)(L) Studio, CPA

Students advance their research and creative practice. Production is informed by seminars, critiques, and lectures. Students advance their knowledge of the history, current practice, and theory of painting to define, develop and discuss their work in a contemporary context.

Prerequisite: VISA 3610

VISA 3630 6 credits

Drawing and Painting (2,2,0)(2,2,0)(L) CPA, Studio

Students explore contemporary drawing and painting, as both separate and interrelated media, in current artistic practice. Lectures present both theoretical and historical material, as well as practical methods for creating artistic works in areas of drawing, painting, mixed-media collage, and assemblage. Seminars are used to critique student work and to discuss readings and student presentations.

Prerequisite: VISA 2210 or VISA 2610

VISA 3710 3 credits

Photography 3 (3,1,0)(L) Studio

In this course students become increasingly individualized in their approach to research and practical work in photography. Lectures, seminars, and technical demonstrations provide students with multiple formal and conceptual approaches to contemporary photographic history and practice. Through these activities students establish a basis for developing and addressing the subject, content, and aesthetics of their artworks in visual, written and oral forms. Students complete projects outside of regularly scheduled class hours.

Prerequisite: 2720

VISA 3720 3 credits

Photography 4 (3,1,0)(L) Studio

Students explore creative, conceptual and experimental approaches to photography emphasizing the use of analog and digital technologies. Independent research and practice is combined with technical demonstrations, group critiques, and lectures on contemporary photographic practice. Students develop a working knowledge of selected topics related to the history, theory, and aesthetics of photography in order to define and discuss their artwork within a contemporary context. Students are expected to be self-motivated and prepared for independent practice.

Prerequisite: VISA 3710

VISA 3730 6 credits

Photography and Literature (2,2,0)(2,2,0)(L) Studio

This studio-based course explores relationships between image and text, particularly as it relates to photographic practice. A variety of visual, literary and critical works, by historical and contemporary artists and authors, are considered. Projects include photographic series, creative writing, and interdisciplinary works that examine the connections between art and literature. This course is accessible to students who have no prior photographic experience, but it would also be of interest to students who have previously taken photography courses.

Prerequisite: VISA 2710 or completion of 45 credits

VISA 3740 3 credits

Colour Photography (2,1,1)(L) Studio

This course is an introduction to the theory and practice of colour photography as an artistic medium. Students learn the principles, tools and techniques of creating photographic imagery using both analog and digital colour materials. Topics include contemporary and historic colour photography, as well as the related formal and conceptual issues within current photographic art practices. This course provides students with the basis for developing critical and aesthetic awareness in their photographic artwork. Students complete projects outside of regularly scheduled class hours.

Prerequisite: VISA 2720

VISA 3780 3 credits

Video Production 2 (2,0,1)

Students learn advanced aspects of digital video production including; camera use, lighting, and video and sound editing. Students learn strategies for displaying video art such as video installation, and internet/social media applications. Topics include the history and theory of new media and other forms of artistic expressions using digital media in contemporary art. Students are introduced to the theory, history and practical applications of documentary filmmaking, from news clips to feature-length documentary films. | Prerequisite: VISA 2780

VISA 3810 6 credits

Directed Studies: 2D (CPA) (Studio) (2,0,2) or (2,0,2)(2,0,2)Studio

This course encourages the development of a personal body of work, primarily in some two dimensional medium such as drawing, painting, photography, or printmaking. Students work in the Visual Arts studios under the supervision of a faculty advisor towards the creation of an independent body of work. Students also work independently in the Visual Arts studios outside class time towards the completion of course work Priority is given to BFA students.

Prerequisite: Completion of 45 credits, completion of VISA Studio courses and approval by department chair or program advisor

VISA 3820 6 credits

Directed Studies: 3D (CPA) (Studio) (2,0,2) or (2,0,2,)(2,0,2,)Studio

This course encourages the development of a personal body of work, primarily in some three dimensional medium such as sculpture or interdisciplinary media. Students work in the Visual Arts studios under the supervision of a faculty advisor towards the creation of an independent body of work. Students work in the Visual Arts studios outside class time towards the completion of course work. Priority is given to Bachelor of Fine Arts (BFA) students.

Prerequisite: Completion of 45 credits, completion of VISA studio courses and approval by department chair or program advisor

VISA 3830 3 credits

*****Selected Topics in Visual Arts Studio (CPA) (2,0,2)Studio**

This is a variable content course. Themes addressed in the course are ones that complement, or otherwise, lie outside the Visual Arts Program's regular offerings. Please see the current course schedule or the Program Coordinator to receive information on current offerings, including any that may be open to students outside Visual Arts. Independent work in the Visual Arts studios outside of class time is required.

Prerequisite: Completion of 12 credits of VISA Studio and approval of Department Chair

VISA 4910 12 credits

Graduating Studio (0,1,20)(0,1,20)(L)

This is a capstone course in studio-based production. Students work under the supervision of an advisor towards the creation of an independent body of artwork appropriate for exhibition. Artwork may be created within a single medium or approached in a more interdisciplinary manner as agreed upon by the student and advisor. Students pursue research and artistic production at a level expected for independent practice.

Prerequisite: VISA 1110, VISA 1120, completion of 18 upper-level Visual Arts (studio) credits and approval by department chair or program advisor

Corequisite: VISA 4990

VISA 4920 12 credits

Graduating Gallery Studies HTA (3,0,6)Studio

In this course, students work under the supervision of an advisor on an independently researched and documented exhibition project, modeled upon professional curatorial proposals that includes a complete physical, thematic, and theoretical overview of the proposed exhibition. The proposal must be suitable for realization at a professional art gallery.

Prerequisite: VISA 1110, VISA 1120 and completion of 18 upper-level Visual Arts credits, including VISA 3010 and 3020 and approval of department chair or program advisor

Corequisite: VISA 4990

VISA 4990 6 credits

Graduating Seminar (1,2,0)(1,2,0)

This course is a forum for students enrolled in VISA 4910 and VISA 4920 to critically research artistic and theoretical trends in the contemporary art world, as well as consider the artwork of visiting artists and current exhibitions in the Kamloops region. Ongoing artwork and projects created by the students in VISA 4910 and VISA 4920 are periodically discussed and formally critiqued. Practical matters of being a professional artist are addressed including formulating a CV and artist statement, documenting artwork, writing grant or exhibition proposals, and researching sources of career support. The seminar is also used to plan, organize, and install the year-end graduating exhibition.

Prerequisite: VISA 1110, VISA 1120 and VISA 4910 or VISA 4920 and approval by department chair or program advisor

WELD 1000

Welder Apprenticeship Level 1 (240 hours)

This course is the first level of the BC ITA welder program. In it students will learn to demonstrate safe work practices and perform oxy-fuel, metal arc, electric arc and semi-automatic welding processes.

WELD 1900

Welding Trade Sampler (120 hours)

This course is a sampler of the welding trade based on the Welding Foundation Program outline from the Industry Training Authority of BC. Students will gain familiarity with the safe use of hand tools, portable power tools and other equipment regularly used by welders, as well as gaining familiarity with many of the materials used in the Trade. The emphasis of this course is on developing practical, hands-on welding skills.

Prerequisite: Completion of Grade 10

WELD 2000

Welder Apprenticeship Level 2 (240 hours)

This course is the second level of the BC ITA Welder apprenticeship program. In it students learn shielded metal arc and semi-automatic welding, basic metallurgy, interpret drawings, layout and fabricate components as well as how to describe submerged arc welding.

WELD 2500

Welder Foundation (840 hours)

This foundation course is intended for those who wish to enter the Welder profession. This course will introduce students to welding ferrous and non-ferrous metals using manual or semi-automatic welding equipment using flame-cutting, brazing and air-arching equipment. You will also learn to interpret drawings, determine the materials required and welding processes to be used, then use this knowledge of welding to complete the job.

Prerequisite: Grade 10 required, grade 12 preferred. Successful completion of the entry assessment test.

WELD 3000

Welder Apprenticeship Level 3 (300 hours)

This is the third and final level of the BC ITA welder apprenticeship program. Upon completion students will be capable of welding ferrous and non-ferrous metals in all positions, on both plate and/or pipe, using SMAW, GTAW, and FCAW processes. This will be done using manual or semi-automatic welding equipment. Students will also be able to plan work from drawings or by analyzing the job tasks, determine the materials required and welding processes, then use this knowledge of welding to complete the job.

WELD 4000

Welder Specialty Endorsement (150 hours)

This course is an optional specialty training in low alloy and stainless steel welding for welders who wish to receive their specialty metals endorsement from the BC ITA.

WKSK 0210

Workskills 1 (390 hours)

In Workskills 1, students are introduced to and explore a variety of work environments and determine their particular interest, ability and aptitude for specific jobs, dependent on the individual student's functional skill level and availability of the placement. Students choose and participate in an appropriate work placement (work experience).

Prerequisite: Admission to Level 1 of the Work Skills Training (WST) Program

WKSK 0220

Workskills 2 (450 hours)

Workskills 2 builds on skills and abilities acquired and demonstrated by students in Workskills 1. Students are introduced to essential entry level skills in selected employment areas (as available). Students strive to improve work strengths and develop marketable skills, focusing on occupational/vocational interests and aptitudes with the clear goal of becoming employable and semi, or fully independent.

Prerequisite: Admission to Level 2 of the Work Skills Training (WST) Program

WTTP 1700 3 credits

Water Sources (90 hours)

This course provides training in the development of new and existing water sources. Students focus on ground and surface water sources as they relate to the way drinking water is treated and distributed. Areas of study include: basic water supply hydrology; groundwater sources; surface water sources; emergency and alternate water sources; source water conservation; source water quality; and source water protection.

Prerequisite: Acceptance into either the Water and Wastewater Certificate or Diploma programs or the Water Treatment Technology program.

WTTP 1710 3 credits

Water Treatment 1 (90 hours)

This is an introductory course in conventional water treatment processes with emphasis on past, present and future technologies concerned with water treatment. The course also covers water quality characteristics, sampling and laboratory analysis procedures from source to distribution.

Prerequisites: Acceptance into either the Water & Wastewater Utilities Certificate or Water and Wastewater Technology Diploma or the Water Treatment Technology program

WTTP 1720 3 credits

Applied Math and Science (90 hours)

Students are introduced to concepts in Mathematics, Chemistry, and Hydraulics that will be needed later in the program. The course is divided into three modules: Module A - Mathematics covers important concepts such as significant figures, error analysis, calculation of areas and volumes, units conversion, ratios and proportions, averages, and percent. Module B - Hydraulics introduces the students to the concepts of density and specific gravity, water pressure, piezometric surface and hydraulic grade line, calculation of head loss, as well as pumping and flow rate problems. Module C - Chemistry introduces the students to the structure and the classification of matter, the balancing of chemical equations, and finally dilution and dosage calculations.

Prerequisite: Acceptance into either the Water and Wastewater Certificate or Diploma programs or the Water Treatment Technology program

WTTP 1730 3 credits

Mechanical Systems 1 (90 hours)

Students explore the principles of mechanical systems as they apply to water distribution as well as piping, pumps and valves used in water and wastewater treatment facilities. The principles of cross connection control are also covered.

Prerequisities: Acceptance into either the Water & Wastewater Utilities Certificate or Water and

Wastewater Technology Diploma program or the Water Treatment Technology program

Exclusion: Students cannot receive credit for both WTTP 1730 and WTTP 1731

WTTP 1740 3 credits

Environmental Legislation, Safety and Communications (90 hours)

This course provides a foundation in three topic areas: legislation, safety and communications. Under the legislative section, students gain an understanding of the basic principles of environmental law and the legislative framework under which most water suppliers must legally operate. The safety section includes topics such as occupational health and safety as it applies to operations and management of water systems. The third section covers oral and written communication skills required for operators dealing with specific situations that arise through interactions with the public.

Prerequisite: Acceptance into either the Water and Wastewater Certificate or Diploma programs or the Water Treatment Technology program

WTTP 1760 3 credits

Introduction to Wastewater Utility (90 hours)

Students are introduced to wastewater characteristics and collection system processes. The course focuses on domestic and industrial sources as they relate to the way wastewater is collected, treated and disposed of. Areas of study include basic descriptions of; what is wastewater; why we have to treat wastewater; the processes involved with treating wastewater; disposal of treated effluent, and the collection of wastewater from sources.

Prerequisite: Acceptance into either the Water & Wastewater Utilities Certificate or the Water and Wastewater Technology Diploma or the Water Treatment Technology program.

WTTP 1800 3 credits

Electrical Fundamentals 1 (90 hours)

This course offers students an introduction to electrical systems as they apply to the day-to-day operation of water and wastewater treatment processes. Students are introduced to electrical principles, components of electrical systems, operating principles of electric motors, variable frequency drives, advanced motor control and programmable logic controllers.

Prerequisites: WTTP 1700 AND WTTP 1710 AND WTTP 1720 AND WTTP 1730 and WTTP 1740 AND WTTP 1760

Exclusion: Students cannot receive credit for both WTTP 1800 and WTTP 1801

WTTP 1820 3 credits

Instrumentation 1 (90 hours)

This course offers an introduction to the instrumentation trade as it applies to the day-to-day operation of water and wastewater treatment plants. Topics discussed include: process control principles; terminology; and trouble shooting techniques. This course is not designed to create tradespersons, but is designed from the viewpoint of plant operators, to develop more awareness of the trades and to enable operators to function more effectively.

Prerequisite: WTTP 1700, 1710, 1720, 1730, 1740 and 1760 or equivalent

WTTP 1830 3 credits

Mechanical Systems 2 (90 hours)

This course is a continuation of Mechanical Systems 1 and Water Distribution. Students are introduced in more detail to the selection, operating principles, and the adjustment and maintenance of mechanical equipment used in water and wastewater treatment processes and facilities. The course is arranged in four general sections starting with moving water, process equipment and pumps as well as energy conservation management.

Prerequisites: WTTP 1700 AND WTTP 1710 AND WTTP 1720 AND WTTP 1730 and WTTP 1740 AND WTTP 1760 or equivalent

WTTP 1850 3 credits

Water Treatment 2 (90 hours)

This course is a continuation of Water Treatment 1. Advanced topics in this course include: water softening; pH control; pre-oxidation; and dissolved metals removal. Students are provided an overview of chemical feed systems and chemical dosage calculations.

Prerequisite: WTTP 1700, 1710, 1720, 1730, 1740 and 1760 or equivalent

WTTP 1860 3 credits

Wastewater Utility 1 (90 hours)

This course illustrates to students what occurs once wastewater leaves the wastewater collection system and enters into the treatment plant stage. Levels and methods of wastewater treatment will be explained. Students are introduced to the laboratory principles of wastewater analysis, and will test and calculate important parameters involved in normal wastewater treatment processing.

Prerequisites: WTTP 1700 AND WTTP 1710 AND WTTP 1720 AND WTTP 1730 and WTTP 1740 AND WTTP 1760 or equivalent

WTTP 1890 3 credits

Practicum 1 (90 hours)

This course offers students hands-on practical training integral to the development of future water and wastewater operators. Students progress through practical experiences involving basic electrical and instrumentation, mechanical system maintenance, laboratory procedures and plant operation fundamentals for water and wastewater.

WTTP 2710 3 credits

Water Chemistry (90 hours)

This course provides an introduction to the study of water chemistry. The focus is on chemistry fundamentals that water operators require for problem analysis related to water treatment.

Areas of study include: pH; alkalinity; and inorganic (metals and non-metals, anion/cations) and organic (hydrocarbons, aromatics, detergents, pesticides) species found in water. Practical examples of removal and treatment of chemicals found in water are provided.

Prerequisite: WTTP 1800, 1820, 1830, 1850, 1860, 1870 or equivalent

WTTP 2720 3 credits

Advanced Coagulation and Particle Removal (90 hours)

This course is a continuation of Water Treatment 2 in which coagulation in general terms is introduced. This course takes an in-depth look at coagulation and particle removal. Topics discussed include: the advanced principles of coagulation; emerging technologies; jar testing; and clarification methods and equipment. The course aims to provide operators with information that will improve their ability to assess conditions in the water treatment plant and make decisions to ensure the smooth operation of their treatment process.

Prerequisite: WTTP 1800, 1820, 1830, 1850, 1860, 1870 or equivalent

WTTP 2730 3 credits

Filtration (90 hours)

This course provides students with the basic understanding of water filtration mechanisms and the methods of their classification. Topics include a historical overview of the development of water treatment and its impacts on water filtration today. The process of slow and rapid sand filtration and its operation, performance optimization, maintenance, and backwashing techniques are considered in detail. Alternative filtration processes, such as membranes, pressure sand, manganese green sand, activated carbon, pre-coat and sediment filtration are also explained, along with operations and maintenance procedures for each of the technologies.

Prerequisite: WTTP 1800, 1820, 1830, 1850, 1860, 1870 or equivalent

WTTP 2740 3 credits

Disinfection (90 hours)

The intent of this course is to cover the advanced concepts of drinking water disinfection and fluoridation. Topics include history of disinfection, causes of waterborne diseases and disinfection goals. Theory of disinfection, design, and operation as well as "disinfection by-products" are discussed. Technologies covered include chlorination, ozone, UV and alternate disinfection methods. Maintenance and calibration procedures used in monitoring equipment for both disinfection and fluoridation are also addressed.

Prerequisite: WTTP 1800, 1820, 1830, 1850, 1860, 1870 or equivalent

WTTP 2760 3 credits

Wastewater Utility 2 (90 hours)

Students are provided with an in-depth look into wastewater treatment processes and components. The course focuses on secondary and advanced wastewater treatment and wastewater sludge residual treatment and disposal.

Areas of study include descriptions of treatment processes and components for secondary treatment, advance treatment targets and process residual sludge treatment management and disposal.

Prerequisites: WTTP 1800 AND WTTP 1820 AND WTTP 1830 AND WTTP 1850 AND WTTP 1860 or equivalent

Exclusion: Students cannot receive credit for both WTTP 2760 and WTTP 1870

WTTP 2800 3 credits

Microbiology and Toxicology (90 hours)

The goal of this course is to introduce students to unifying concepts of biology, microbiology and toxicology relating to water, and the most common and significant sources of infectious diseases caused by microbial contamination. Students explore the types of toxicants present in aquatic systems, their

routes of exposure and modes of action, as well as their effects on human health and the environment.

Prerequisite: WTTP 2700, 2710, 2720, 2730, 2740 or equivalent

WTTP 2820 3 credits

Instrumentation 2 (90 hours)

This course offers a more advanced study into plant floor control and supervision. Students are introduced to the components of a computerized system, and progress to advanced topics including an analogue signal handling, timers and counters, and how discrete and analogue values can be passed from one Programmable Logic Controller to another. Students develop an understanding of modern plant-wide control systems. These systems rely on merging technologies, such as computers, Programmable Logic Controllers, operator interfaces, and micro processor based plant-floor devices, together into a Supervisory, Control and Data Acquisition (SCADA) system.

Prerequisite: WTTP 2700, 2710, 2720, 2730, 2740 or equivalent

WTTP 2830 3 credits

Management and Leadership Skills (90 hours)

This course provides an introduction to human resources, assets and operations, financial management and techniques used in the water industry. Topics include the art of management and the role of the manager, decision making, time management, written records, human resource management and communication skills. Students examine the skills required for operations management, asset identification, designing an asset maintenance program, data acquisition, and water conservation. Accounts and budgets, financial accounting and international legislation are discussed.

Prerequisite: WTTP 2700, 2710, 2720, 2730, 2740 or equivalent

WTTP 2840 3 credits

Source Water Protection and Management (90 hours)

This course introduces students to source water challenges and issues as well as impacts on water quality and quantity due to climate change. Students study how ground and surface source waters and their catchment areas can face threats and vulnerabilities that impact water safety and sustainability. Students learn to characterize source waters, delineate protection areas, and identify water quality and quantity hazards and vulnerabilities. Using this data, students develop risk assessments and response plans to mitigate hazards through water system design, operations, and watershed management.

Prerequisites: WTTP 2710 AND WTTP 2720 AND WTTP 2730 AND WTTP 2740 AND WTTP 2760 or equivalent

WTTP 2860 3 credits

Industrial Wastewater Pollution and Treatment (90 Hours)

Students are introduced to industrial wastewater effluents that result from human activities associated with raw-material processing and manufacturing. Students analyze industrial wastewater characteristics arising from a variety of treatment processes applied in different industrial sectors including; chemical, pharmaceutical, electrochemical, electronics, petrochemical, pulp and paper, food processing and agro-industrial industry. Students are introduced to regulations governing industrial wastewater processing, as well as treatment processess applied in various industrial sectors.

Prerequisite: WTTP 2710, 2720, 2730, 2740, 2760 or equivalent

WTTP 2890 3 credits

Practicum 2 (90 hours)

This course represents the second onsite practicum. The intent of the course is to provide hands-on practical training as students enter the final phase of the program. Students progress through a series of practical experiences involving: advanced process control; advanced programmable logic controllers; Supervisory Control and Data Acquisition Systems; people, asset and operation, financial management and leadership skills; operational procedures in advanced coagulation and particle removal; filtration techniques; and basic to advanced disinfection practices.

Prerequisite: Completion of Level 1 to 3 Water Treatment Technology Program and WTTP 2801, WTTP 2291, WTTP 2301, WTTP 2311, WTTP 2331, WTTP 2341 and WTTP 2351

YMCR 1160

Accounting on the Microcomputer - Quickbooks

Students use the Quickbooks Accounting for Windows software in this 28-hour course. The major emphasis throughout the course is on the development and effective use of software in the preparation and presentation of accounting records as they pertain to business. This is a very intense, production-oriented course. Students must be prepared to devote extra time outside the regularly scheduled lesson and lab-time to get the most out of the course and to complete all course requirements to acceptable standards. This course is not intended to train students in accounting principles.

Prerequisite: YMCR 5030

YMCR 1300

Introduction to Desktop Publishing - Publisher 2000

Electronic desktop publishing is fast becoming a function of the business environment. There are a variety of programs that are available and that vary in sophistication. With desktop publishing programs anybody can create professional documents, such as cards, posters, advertisements, newsletters, logos, brochures, and booklets. This course provides an opportunity for students to explore the field of desktop publishing, not only in the production of basic business documentation but also in the production of documentation for the World Wide Web. Although students may not be at an expert level upon completion of this course, students develop a strong foundation of skills upon which to build in desktop publishing.

Prerequisite: YMCR 5030 or knowledge of computer file management

YMCR 5030

The Operating System (Windows 98)

A solid understanding of a computer's operating system is essential to using a microcomputer effectively. Students are introduced to operating systems at a fundamental level required for using an IBM or compatible microcomputer. Students learn the concepts of the DOS/WIndows operating system, in preparation for further learning, and to manage a computer system. THIS COURSE IS A PREREQUISITE COURSE for all other Certificate Program courses. Students taking this and further courses should have basic typing skills to complete this course successfully.

YMCR 5140

Spreadsheets on the Microcomputer - Excel

Students create and format spreadsheets to analyze and share information, and to make informed decisions. This course offers an introduction to basic spreadsheet concepts (basics, file management, ranges, sorting, columns and rows) using Excel. These concepts include Excel's built-in functions (moving and copying data; formatting a worksheet; printing worksheets; functions and formulas (AutoSum, Inserting functions, Aver, Min and Max functions); referencing and absolutes (consolidating data with 3D references, now and today functions, absolute referencing); charts (creating a chart, selecting, moving, sizing and deleting chart items, preview and printing charts); and advanced built-in functions in Excel (financial function, using range names, split screens and freeze pane, working with clip art).

Prerequisite: YMCR 5030 or knowledge of computer file management

YMCR 5150

Simply Accounting for Windows

This course is intended to teach the fundamental features and concepts of the Simply Accounting software program. Students are able to design, establish, and manage an accounting system for a small business. This is a very intense, production-oriented course; students must be prepared to devote extra time outside the regularly scheduled lesson and laboratory work to get the most out of the course and to complete all course requirements to acceptable standards. This course is not intended to teach accounting principles. Basic bookkeeping knowledge is necessary for maximum benefit from this course.Prerequisites: YMCR 5030 or computer file management knowledge, and basic bookkeeping skills.

YMCR 5160

Database Management on the Microcomputer (Access 2000)

This This 28-hour course is designed for students wishing to gain a basic understanding of a relational database software program. Students learn the basic concepts of database structure and design by creating a working model. The course concentrates on the concepts of a database while using the Microsoft Access database for Windows. You should be prepared to devote additional

hours of non-class time to exercises and project work.

Prerequisite: YMCR 5030 or computer file management knowledge, and basic bookkeeping skills

YMCR 5250

Windows '98 - Intermediate

This course is designed to teach students who have a good basic knowlege of computing the necessary skills to manage the operating environment of the computer, not only as a stand-alone computer, bur also a group of computers connected via a network system. Students will learn to manage and customize the working and operating environment on the computer and resolve many of the frustrations experienced by the average computer user. This course is especially applicable to anyone involved in office management where computers are used. Prerequisite: The Operating System (YMCR 5030) or (YMCR 1030 & YMCR 5010) Recommended, Word

Processing, Spreadsheets, Database. Consultation with the instructor is strongly reccommended if students do not have the reccommended prerequisites.

YMCR 5350

Word Processing

Students are instructed in Microsoft Word for Windows. In this 28-hour course, students learn to create, edit, and search documents, as well as use many additional extended features available in Word. Students should be prepared to devote additional non-class hours to exercises and project work.

Prerequisite: YMCR 5030 or computer file management knowledge

Note: Knowledge of the standard keyboard is necessary for maximum benefit

YMCR 6150

Professional Presentations

Students learn how to communicate with power to get attention, to persuade others to act, and to present ideas in a meaningful, memorable, and captivating format. Moreover, students discover that how ideas are presented is as important as the ideas themselves. Therefore, the goal of this course is to develop the skills and techniques required to create presentations using the Microsoft PowerPoint presentation program. PowerPoint is a graphic software program that is used to make a professional presentation quickly and easily. Students rapidly learn techniques to make effective overheads for business presentations or teaching purposes, slides for business meetings, and on-screen presentations for mall demonstrations. With PowerPoint's consistency in design, colour, layout, and templates, ideas are presented creatively and effectively.

Prerequisite: YMCR 5030 or computer file management knowledge

YMCR 6160

Intermediate Database - Access '97

Students are introduced to advanced features of Microsoft Access. Among the topics discussed are setting relationships between multiple tables, using advanced reporting features, and writing Visual Basic code. Topic-specific exercises, as well as an integrated project, assist students in learning to implement the tools learned in this course. This is an intense course. Students should be prepared to devote additional non-class time to get maximum benefit from this course. Prerequisites: YMCR 5030: The Operating System and YMCR 5160: Database Management on the Microcomputer

Prerequisites: YMCR 5030 and YMCR 5160

YMSS 1010

Management Skills for Supervisors 1

This course is the first of a three-part certificate program: Management Skills for Supervisors. Managers are offered hands-on training and experience to equip them with the necessary skills and tools required to be an effective manager. Topics include communicating effectively and persuasively in a team environment; recognizing a win-lose situation; handling job-related problems; giving effective feedback; enhancing interviewing techniques, workplace rumours; conducting a coaching session; making quality decisions; improving relationships; and building consensus.

YMSS 1020

Management Skills for Supervisors 2

This course is the second of a three-part certificate program: Management Skills for Supervisors. Managers are offered hands-on training and experience to equip them with the necessary skills and tools required to be an effective manager. Topics include motivating employees; appropriate, adaptable, and flexible leadership styles; analyzing working groups and effective teams; strategies for productive and participatory meetings; coping with power shifts in organizations; and handling job-related stress.

Prerequisite: YMSS 1010

YMSS 1030

Management Skills for Supervisors 3

This course is the third of a three-part certificate program: Management Skills for Supervisors. Managers are offered hands-on training and experience to equip them with the necessary skills and tools required to be an effective manager. Topics include comprehensive and flexible analysis for employee performance, appraisal, and interviews; orientation procedures to inform and motivate; guiding a team through a change process; breaking down tasks and job descriptions; identifying and eliminating time-wasters; delegating effectively; job training systems to ensure success; and recognizing harassment in the workplace.

Prerequisite: YMSS 1010, YMSS 1020

YMSS 1040

Advanced Management Skills

This three-day workshop is designed for managers who have taken the certificate Management Skills for Supervisors program or an equivalent supervisor training course. Topics include navigating the perfect labour storm; the multi-generational workforce; attracting and recruiting great talent; creating a culture of engagement; communicating for success; coaching that engages; understanding conflict; and change management for leaders.

Prerequisite: Management Skills for Supervisors certificate program, or equivalent

Index

A

Aboriginal Pathways to Health Careers Program, 128
Aboriginal Studies Certificate, 81
Academic Advising, 24
Academic Dates, 8
Academic Schedule, 8
Accessibility Services, 24
Accounting, 87, 88
Accounting Technician Diploma, 96
Additional Regulations and Procedures, 22
Administration and Leadership, 5
Administrative Assistant Certificate, 99
Admission and Registration, 10
Adult Basic Education, 118
Adult Upgrading Grant, 26
Adventure Guide Certificate, 43
Adventure Guide Diploma, 46
Adventure Studies, 33
Alumni and Friends Association, 30
Animal Health Technology Diploma, 157
Animal Health Technology Distance Education Diploma, 156
Animal Welfare Certificate, 160
Appeals, Student, 23
Applied Sustainable Ranching, 155
Archaeology and Geology, Minor, 138
Architectural and Engineering Technology Diploma, 160
Art Gallery, 30
Arts, 54
Assessment Centre, 24
Associate of Arts (Modern Languages) Degree, 79
Associate Of Arts Degree, 75
Associate of Commerce and Business Administration Diploma, 97
Associate of Science Degree, 153
- Biology, 154
- Chemistry, 154
- Computing Science, 155
- Geology, 154
- Mathematics, 155
- Physics, 154

Athletics and Recreation, 28

B

Bachelor of Arts, 54
- Double Major Program, 66
- General BA, 55
- Single Concentration, 56

Bachelor of Arts, Major Programs, 57
- Communication, 66
- Criminology, 57
- Economics, 57
- Economics and Political Studies, 58
- English, 59
- Geography and Environmental Studies, 60
- History, 61
- Mathematics, 62
- Mathematics and Economics, 62
- Philosophy, 63
- Psychology, 64
- Sociology, 65
- Theatre Arts, 65

Bachelor of Arts, Minor Programs, 67
- Archaeology and Geology, 68
- Creative Writing, 68
- Economics, 68
- Environmental Economics and Sustainable Development, 68
- Geography, 68
- History, 68
- Management, 69
- Mathematics, 68
- Philosophy, 68
- Political Studies, 68
- Psychology, 68
- Sociology, 68
- Theatre, 68
- Visual Arts, 68

Bachelor of Business Administration, 86
- Dual Degrees, 90
- Honours Degree, 89

Bachelor of Business Adminsistration, Majors, 87
- Accounting, 87
- Economics, 87
- Entrepreneurship, 87
- Finance, 87
- General BBA, 87
- Human Resource Management, 88
- International Business, 88
- Marketing, 88
- Supply Chain Management, 88

Bachelor of Business Administration, Minors, 88
- Accounting, 88
- Economics, 88
- Entrepreneurship, 88
- Environmental Economics and Sustainable Development, 88
- Finance, 88
- Financial Markets and Institutions, 88
- Financial Services, 88
- Human Resource Manangement, 89
- International Business, 89
- Leadership, 89
- Marketing, 89
- Project Management, 89
- Supply Chain Management, 89

Bachelor of Computing Science, 130

Bachelor of Education, Physical Education Transfer Program, 107
Bachelor of Education (Elementary), 105
Bachelor of Education (Secondary), Science, Tehcnology, Engineering and Mathematics, 104
Bachelor of Engineering in Software Engineering, 132
Bachelor of Fine Arts (Visual Arts), 69
Bachelor of Health Science, 134
Bachelor of Interdisciplinary Studies, 70
Bachelor of Journalism, 72
Bachelor of Natural Resource Science, 148
Minor in Environmental Economics and Sustainable Development, 151
Bachelor of Science Double Degrees, 135
Computing and Business, 131
Double Major Program, 139
Bachelor of Science, General Science Program, 137
Bachelor of Science, Honours Program, 140
Bachelor of Science, Major Program with a Minor, 138
Bachelor of Science, Major Programs, 138
Animal Biology, 140
Biology, 140
Cellular, Molecular, and Microbial Biology, 141
Chemistry, 142
Chemical Biology, 142
Computing Science, 143
Computing Science & Mathematics, 144
Ecology and Environmental Biology, 141
Environmental Chemistry, 143
Mathematics, 62, 145
Mathematics and Economics, 145
Mathematical Sciences, 146
Physics, 146
Bachelor of Science Co-op, 136
Biology, 136
Chemistry/Environmental Chemistry, 136
Computing Science, 136
Mathematics, 136
Physics, 136
Bachelor of Science in Nursing, 122
Bachelor of Social Work, 107
Bachelor of Technology, 175
Bachelor of Technology, Trades and Technology Leadership, 176
Bachelor of Tourism Management, 31
Bachelor of Tourism Management, Adventure Studies, 33
Biology Programs, 140
Bachelor of Natural Resource Science, Honours, 150
Board of Governors, 5
Bookstore, 28
Business Administration, 83, 86
Business and Economics, 83
Business Foundations Certificate, 98
Business Fundamentals Certificate, 99

C

Campus Activity Centre, 28
Campus Card, 28
Campus Infastructure and Sustainability, 28
Campus Life, 28
Career and Experiential Learning, 24
Chemistry Programs, 142
Child Care, 28
Communications, 66
Community Support Certificate, 113
Computing, 139
Computing Science, 130
Computing Science Diploma, 162
Computing Science Programs, 143
Computing Science, Honours, 144
Conduct, 22
Construction Trades, Apprenticeship and Foundations, 178
Carpentry and Joinery, 178
Electrician, 178
Instrumentation and Control Technician, 179
Plumbing/Pipe Fitting/Gas Fitting, 179
Residential Construction, 178, 179
Training Options, 178
Contents, 7
Cook, 184
Co-operative Education, 172
Bachelor of Arts Co-op, 172
Bachelor of Business Administration Co-op, 172
Bachelor of Computing Science Co-op, 173
Bachelor of Interdisciplinary Studies Co-op, 172
Bachelor of Natural Resource Science Co-op, 172
Bachelor of Science, Biology Major Co-op, 172
Bachelor of Science, Chemistry/Environmental Chemistry Co-op, 172
Bachelor of Science, Computing Science Co-op, 172
Bachelor of Science, Math Co-op, 172
Bachelor of Science, Physics Major Co-op, 172
Bachelor of Tourism Management co-op, 172
Computing Science Diploma Co-op, 173
Co-requisites, 22
Counselling, 24
Course change deadlines, 22
Course Descriptions, 197
Course Exemptions, 22
Course Listing- alphabetical, 199
Course numbering and definitions, 22
Culinary Arts, Apprenticeship Cook, Professional Cook 3, 50
Culinary Arts Certificate (Professional Cook 1 and 2, 48
Cultural and Social Explorations Certificate, 82

D

Dates—2019–2020, 8
Drawing, 78

E

Early Alert, 24
Early Childhood Education Diploma, 109
Economic and Political Studies, 58
Economics, 57, 87
Economics Help Centre, 25
Education and Skills Training Certificate Program (ESTR), 118
Education Assistant and Community Support Certificate, 113
Employment Preparation, 117
Engineering Transfer Program, 163
English, 59

English as a Second Language, 116
English as a Second or Additional Language Certificate Programs, 21
Entrepreneurship, 87
Environmental, 139
Environmental Economics, 84
Environmental Studies Certificate, 151
Events and Conventions Management Diploma, 38
Executive Assistant Diploma, 97

F

Faculties and Schools
- Faculty of Adventure, Culinary Arts, and Tourism, 31
- Faculty of Arts, 54
- Faculty of Education and Social Work:, 102
- Faculty of Law, 119
- Faculty of Science, 129
- Faculty of Student Development, 172
- School of Business and Economics, 83
- School of Nursing, 121
- School of Trades and Technology, 175

Fee Deferrals, 15, 26
Fees, 13
Finance, 87
Financial Support, 26
First Nation Applied Economics Certificate, 101
First Nation Taxation Administration Certificate, 100
First Nations Applied Land Management Certificate, 155
First Nations Language Teachers Program
- Developmental Standard Term Certificate, 114

Food Services, 28
Forestry Transfer Program, 151
Foundation, 30

G

Gas fitting Apprenticeship Class A and Class B., 179
Geography and Environmental Studies, 60
Geology, 154
Governance, 5
Grade Point Average, 22
Graduate Certificate in Educational Studies, 103
Graduate Diploma in Business Administration, 83
Graduate Program Admission, 18
Graduate Studies, 17

H

Harassment and Discrimination Prevention, 25
Health Care Assistant Certificate, 127
Health Science, 134
Health Sciences, 168
History, 61
Holiday Dates, 9
Homestay, 21
Horticulture Certificate, 183
Horticulture Management Diploma, 182
Housing, 26
Human Resource Management, 88, 89
Human Service Diploma, 111

I

Important Dates, 9
Indigenous Student Services, 25
Infant and Toddler Educator Certificate (Post-Diploma), 110
Information Technology Services, 29
Instrumentation Engineering Technology Diploma, 177
Interdisciplinary Studies Degree, 70
International Business, 88
International Student Support, 20
International Students English Language prerequisite for academic study, 21
International Students Fees, 20
International Students Homestay Program, 21

J

Journalism, 72
Juris Doctor (JD), 119

L

Late payment of tuition and Fees, 14
Law, 119
Leadership, 89
Library, 30
Literary and Art History Certificate, 81
Lost and Found, 29

M

Management Diploma, 95
Management Minor, 94
Management, Minor, 139
Marketing, 88, 89
Master in Environmental Economics and Management, 84
Master of Business Administration, 83
Master of Education, 102
Master of Nursing, 121
Master of Science in Environmental Economics and Management, 85
Master of Science in Environmental Science, 129
Math Help Centre, 25
Mathematics and Economics, Arts, 62
Mathematics and Economics, Bachelor of Science, 145
Mathematics Programs, Science, 144
Mathematics, Bachelor of Arts, 62
Mathematics, Science, 62, 145
Mature Students, 12
Meat Cutter/Retail Meat Processing Foundation Certificate, 51
Meatcutter, 184, 52
Mechanical Trades, 180
- Automotive Service Technician, 180
- Diesel Engine Mechanic, 181
- Foundation Programs, 180
- Heavy Duty Equipment Technician, 181
- Industrial Mechanic (Millwright), 181
- Training Options, 180
- Transport Trailer, 181
- Truck and Transport Mechanic, 181

Medical Clinic, 29
Mission, 5
Modern Languages Certificate, 79
Multi-Faith Space and Chaplains, 25

N

Natural Resource Science, 148
Newspaper, 29
Nursing, 121, 122

O

Omega, 29
Orientation, 25

P

PACE, 25
Painting and Drawing Certificate, 78
Parenting Room, 29
Parking, 28
Part-Time Student Assistance Programs, 26
Payment deadlines, 14
Philosophy, 63
Physics Programs, 146
Planning Council for Open Learning, 5
PLAR, 12
Police and Justice Studies Diploma, 76
Policies, 22
Policies, Regulations and Procedures, 22
Post-Baccalaureate Certificate in Tourism, 34
Post-Baccalaureate Diploma in Mathematics and Economics, 146
Post-Baccalaureate Diplomas in Business, 91
Post-Baccalaureate Diplomas in Tourism, 35
- PBD in Adventure Studies, 35
- PBD in Tourism Destination Development, 37
- PBD in Tourism Experience Management, 37
- Post-Baccalaureate Diploma in Innovation and Entrepreneurship in Tourism, 36
- Post-Baccalaureate Diploma in Managing Festivals and Events, 36
- Post-Baccalaureate Diploma in Resort Experience Management, 36

Power Engineering Technology Certificate, 182
Practical Nursing Diploma, 126
Pre-Professional Health Sciences, 168
- Chiropractic, 168
- Dentistry, 169
- Medicine, 169
- Naturopathic Medicine, 169
- Optometry, 170
- Pharmaceutical Sciences, 170
- Rehabilitation Sciences, 170
- Veterinary Medicine, 170

Prerequisites, 22
Print Shop, 29
Prior Learning, 12
Project Management, 89
Psychology, 64
Public Relations, 74

R

Ranching, 155, 190
Refrigeration and Air Conditioning Mechanic Foundation Certificate, 181
Refunds, 14
Regional Centres, 196
- 100 Mile House, 196
- Ashcroft and Cache Creek, 196
- Barriere, 196
- Clearwater, 196
- Lillooet and Lytton, 196

Registration, 13
Research and Graduate Studies, 17
Resort and Hotel Management Diploma, 39
Respiratory Therapy Program, 165

S

Safety and Emergency Management, 29
School of Business & Economics, 83
School of Nursing, 121
School of Trades & Technology, 175
Science, 129
Security, 29
Semesters, 8
Senate, 5
Sexual Violence Preventaion and Support, 26
Social Work, 107
Sociology, 65
Special Needs Educator Certificate, 109
Special Needs Educator Certificate (Post-Diploma), 110
Sport Event Management Diploma, 40
Student Affairs, 25
Student Aid BC, 26
Student Awards & Financial Support, 26
Student Classification, 23
Student Electronic Communications Regulations, 23
Student Engagement|Beyond the Classroom, 27
Student Leadership Development, 27
Student Life Transitions, 27
Student Services, 24
Student Success Courses, 27, 174
Supplemental Learning, 27
Supply Chain Management, 88, 89
Sustainability, 28

T

Teaching English as a Second Language Certificate, 115
Theatre, 30
Theatre Arts, 65
Tourism, 31
Tourism Management, 33
Tourism Management Diploma, 42
Trades and Technology, 175
Train in Trades, 188
Transcripts of Academic Record, 23
Transfer Credit, 12
TRU Academic Calendar Overview, 6
TRU Foundation, 30
TRU Mission and University Governance, 5
TRU Students' Union (TRUSU), 30
TRUSU, 30
Tuition and Fees, 13
Tuition Deposit, 13
University and Employment Preparation, 117
Visual Arts, 69
Visual Arts Diploma, 77

Visual Arts Studio Certificate, 78
Waitlists, 13
Water and Wastewater Technology Diploma, 184
Water and Wastewater Utilities Certificate, 185
Welding Trades Programs, 186
Wellness Centre, 27
Williams Lake Campus, 189
- Applied Sustainable Ranching Certificate, 190
- Applied Sustainable Ranching Diploma, 190
- Certificate and Diploma Programs, 190
- Continuing Studies, 194
- Developmental Programs, 193
- Education Assistant and Community Support Certificate, 191
- Practical Nursing Diploma, 191
- Student Services, 189
- Trades and Technology Programs, 191
- University Transfer, 193

Withdrawals, 16, 21
Women in Trades, 187
World Languages and Cultures Certificate, 80
Writing Centre, 27
Youth Train in Trades, 188