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Cohort attrition/retention
study highlights.



Institutional Research & Planning

Cohort Attrition/Retention Study Highlights

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March 2004

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Attrition/Retention Study Highlights

Who are included in the cohort?

Students in academic programs only. Year level was attributed according to their record archived in colleague for that term. The 2001 Fall cohort had a total of 4317 students and the 2002 Fall cohort had 4461 students.

Fall 2001 Cohort

Students in academic programs in fall 2001 (4461): *(See table B.1)*

- 43% of those in first year did not return for Fall 2002
- 30% of those in 2nd year did not return for Fall 2002
- 12 % of those in upper level did not return for Fall 2002
- 31% (1343) overall of the cohort (4317) did not return for Fall 2002
- 2% of overall cohort (4317) changed programs from academic to other areas of the institution.

Of those who remained in academic programs in fall 2002 (2491): *(See table B.2)*

- 33% of those in first year level did not return for Fall 2003
 - 28% of those in second year level did not return for Fall 2003
 - 27% of those in upper level did not return for fall 2003
-
- ✓ 13% of those who did not return for Fall 2002 (181 out of 1343) returned for Fall 2003 *(See table B.2)*
 - ✓ 13% of the leavers at 1st year (of 43%) in Fall 2002 returned Fall 2003
 - ✓ 17% of 2nd year leavers (of 30%) in Fall 2002 returned Fall 2003

Fall 2002 Cohort

Students who were in academic programs in Fall 2002: *(See table B.6)*

- 42% of those in first year did not return for Fall 2003
 - 27% of those in 2nd year did not return for Fall 2003
 - 31 % overall did not return for fall 2003
-
- ✓ The number of those leavers that comes back after 1 year absence will not be known until after Fall 2004 stable enrolment.

Who are the leavers?

2001 Fall cohort

The leavers of this cohort (excluding those who came back in Fall 2003) are:

See tables D.1, D.2, D.3, D.4 & D.5

- ❖ 11% are International students (Institutional % of International students in academic programs only = 11% for the 2001-2002 year)
- ❖ 6% are First Nations students (Institutional % of First Nations students in academic programs only = 6% for the 2001-2002 year)
- ❖ 58% of leavers are female and 42% male. (the institutional gender breakdown for academic programs = 38% male and 62% female for the 2001-2002 year)
- ❖ 72% of the leavers were in 1st year.
- ❖ 18% were between 17 and 19 years of age and 52% were under 22 years of age.
- ❖ 48% had 25 or less credits
- ❖ 38% had a GPA of less than 2.0

2002 Fall cohort

See tables D.6, D.7, D.8, D.9 & D.10

The leavers of this cohort (did not come back to UCC for Fall 2003) are:

- ❖ 10% are International students (Institutional % of International students in academic programs only = 12% for the 2002-2003 year)
- ❖ 5% are First Nations students (Institutional % of First Nations students in academic programs only = 4% for the 2002-2003 year)
- ❖ 43% are male and 57% female (Institutional gender breakdown for academic programs = 39% male and 61% female for the 2002-2003 year)
- ❖ 67% were in Year 1
- ❖ 17% were in Year 2
- ❖ 18% were between 17 and 19 years of age and 52% were under 22 years of age.
- ❖ 45% had 25 or less credits
- ❖ 39% had a GPA of less than 2.0

Trends

- ✓ High percentage of leavers have low GPA, few credits and are in the 17-22 age group
– This is consistent with the findings of the short stay survey conducted in 2003
- ✓ About 10% of attrition is in the international student population – we do not have information on the academic goals of this group to know how long they intended to stay here for. However, the attrition percentage amongst this group is consistent with the institutional percentage of international students.
- ✓ Approximately 6% of the leavers had a GPA of 0 and 0 credits. Possible explanations:
 - student failed all of their courses
 - program code is erroneous – not an academic student but coded as such
 - student is an international student registered in an academic program but only taking CESL or other upgrade courses
 - student registered, never came but did not properly withdraw
- ✓ The leavers include those who transferred to another institution. We do not have a way to track that movement; we can only make inferences at this point. The regulations for transferring from a BC college or university are guided by the provincial transfer agreements. UBC's admission requirement is a GPA of at least 2.0; UVIC requires a minimum overall average of "C" (55-59% in UVic's grading scheme/ C- in UCC's grading scheme or 1.67 GPA at UCC) and SFU requires a minimum of 60% (2.0 GPA). From the 2001 cohort leavers 62% and 61% of the 2002 cohort had GPA's of 2.0 or greater. Thus, it is prudent to assume that a high percentage of leavers are potentially transferring to another institution – likely one of the traditional universities. From the Student Outcomes Reporting System (SORS), we have data that points to 84 students citing transferring to another institution as their reason for leaving UCC during this time period. This would indicate about 8% of those not returning are transferring to other institutions. This number is likely higher as some may enter a different institution at the first year level (not as a transfer student).
- ✓ A number of students do not undertake their studies in a continuous manner. These 'stop outs' leave the institution with the intention to come back at a later date. This is supported by the data collected by the Short Stay Survey in 2003. In this study, 13% of those who did not come back the following Fall (2002), returned for Fall 2003.

Areas for consideration

First Year students (Specifically Arts & Science)

- ✦ Services for first year students, specifically those under 22 years of age, for example: cohort formation, early identification of academic danger, career planning.
- ✦ Early intervention for students with low GPAs
- ✦ Further data on students' academic intent at time of entrance to the institution.

First Nations students

- 
- ✦ Services targeted to First Nations students: the % of FN students leaving the institution is slightly higher than the institutional average. However, the First Nation population is self-identified and as such could represent a higher percentage of the leavers. Similarly, it is also challenging to target services to this group because of its voluntary self-identification.

International students

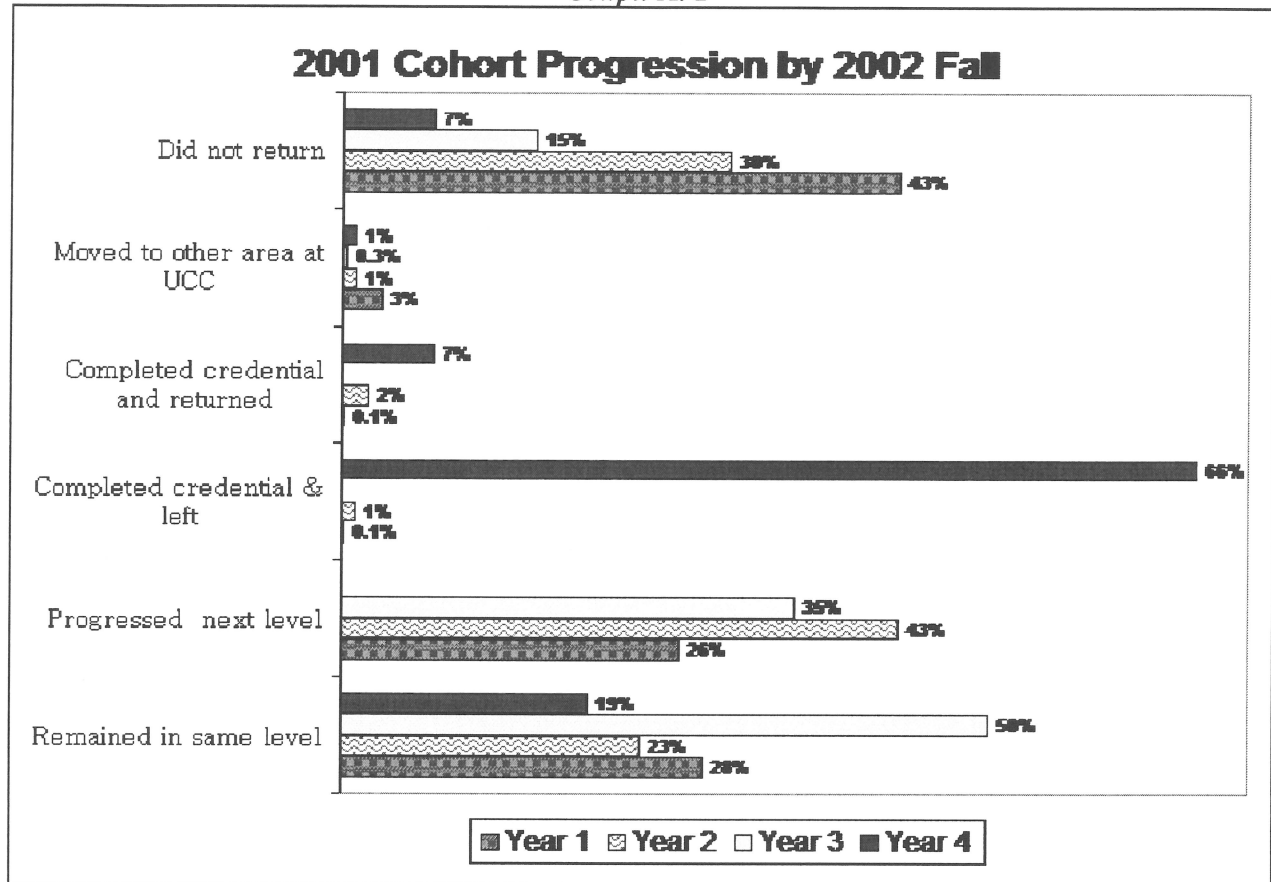
- ✦ Enhanced data on international students' intentions at point of entrance and transfer patterns.

Business practices

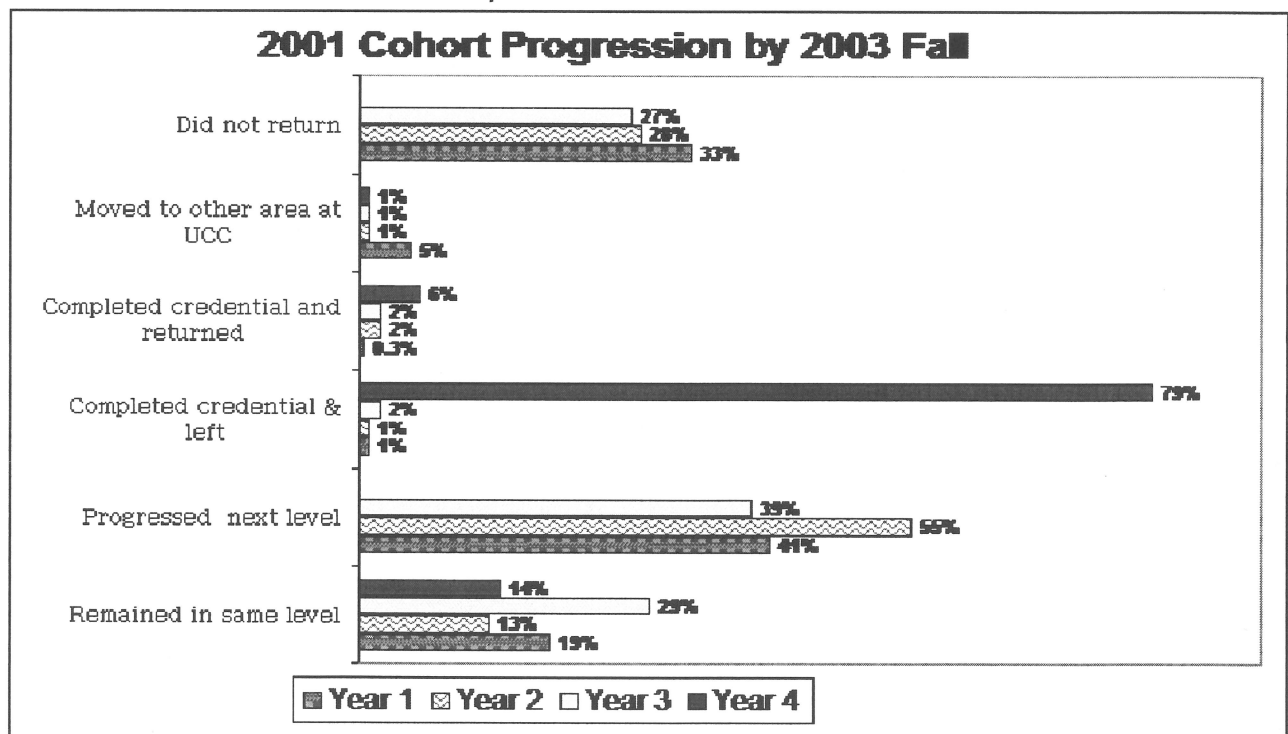
- ✦ Need for program code attached to student record to be reflective of his/hers course of studies. This applies to both domestic and international students.
- ✦ Ensure proper withdrawal procedures followed by students.

Appendix A: Cohort Progression Graphs

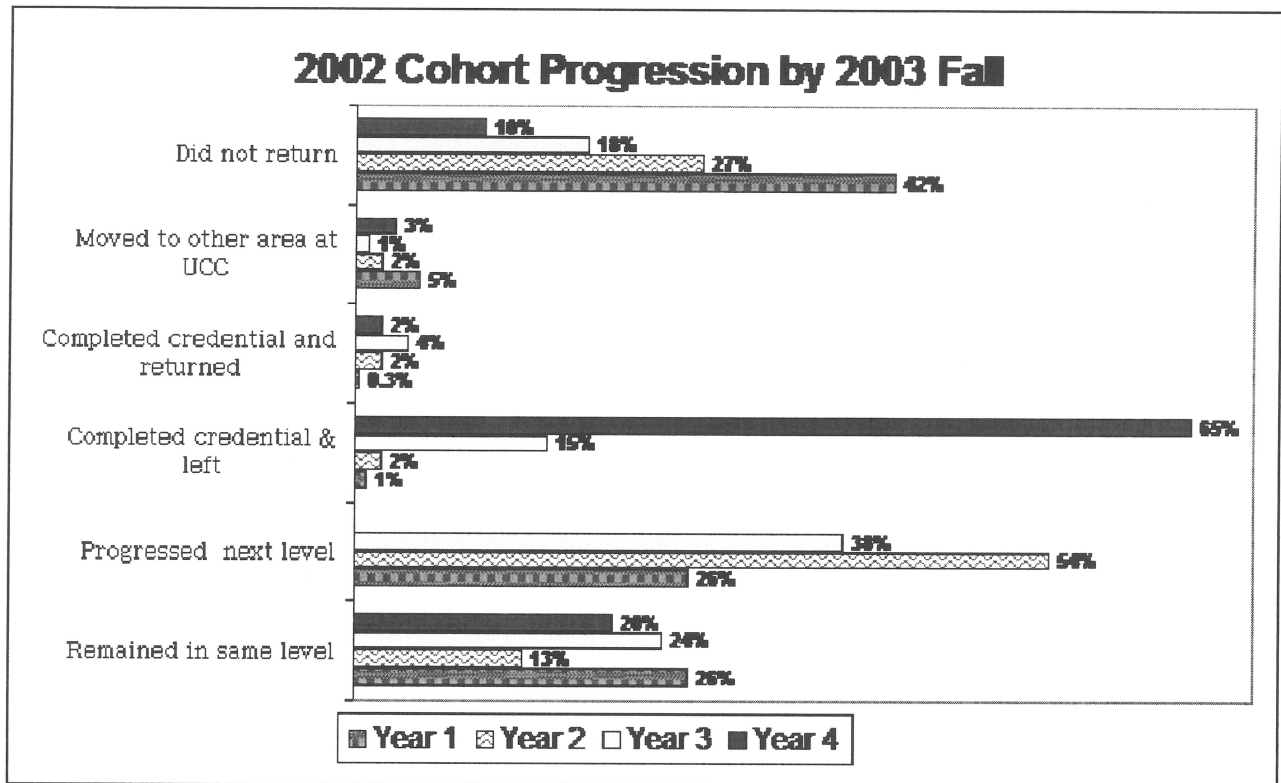
Graph A.1



Graph A.2



Graph A.3



Appendix B: Cohort Progression Tables

2001 FALL ACADEMIC COHORT – 2 YEAR PROGRESSION

Table B.1

Academic Programs	FALL 2001	FALL 2002					Total that came back to UCC 02/FA	DNR/ Transfer
		Remained Same level	Progressed next level	Completed Credential & DNR	Completed Credential & Returned	Moved to Other area of UCC		
Year 1	2244	618 (28%)	589 (26%)	2 (0.1%)	1 (0.1%)	76 (3%)	1284 (57%)	958 (43%)
Year 2	764	174 (23%)	329 (43%)	9 (1%)	14 (2%)	7 (1%)	524 (69%)	231 (30%)
Year 3	719	358 (50%)	249 (35%)	-	-	2 (0.3%)	609 (85%)	110 (15%)
Year 4	586	112 (19%)	-	384 (66%)	45 (7%)	2 (1%)	159 (27%)	43 (7%)
Post Bac. Dipl	4	2 (50%)	-	1 (25%)	-	-	2 (75%)	1 (25%)
Total	4317	1264	1167	396	60	87	2578	1343

Table B.2

2001 Acad cohort back in Acad 2002	FALL 2002 n= 2491	FALL 2003					Total that came back to UCC 03FA	DNR/ Transfer	Returned to UCC for 2003 Fall after absence in 02FA
		Remained Same level	Progressed next level	Completed Credential & DNR	Completed Credential & Returned	Moved to Other area of UCC			
Year 1	618	119 (19%)	255 (41%)	8 (1%)	2 (0.3%)	29 (5%)	405 (66%)	205 (33%)	121 (13%)
Year 2	763	96 (13%)	419 (55%)	9 (1%)	16 (2%)	8 (1%)	539 (71%)	215 (28%)	40 (17%)
Year 3	618	181 (29%)	239 (39%)	10 (2%)	15 (2%)	9 (1%)	444 (71%)	164 (27%)	15 (14%)
Year 4	490	67 (14%)	-	387 (79%)	30 (6%)	6 (1%)	103 (21%)	-	4 (9%)
Post Bac. Dipl	2	-	-	2 (100%)	-	-	-	-	1 (100%)
Total	2491	463	913	416	63	52	1491	584	

Table B.3

Students who moved to other program areas of UCC for 2002FA

Fall 2001 Year level	Program Area in 2002 FA			
	CT	VOC	CE	SD
Year 1	50	26		
Year 2	4	3		
Year 3	1	1		
Year 4	1			1
Total				87

Table B.4

Students who moved to other program areas of UCC for 2003FA

Fall 2001 Year level	Program Area in 2002 FA			
	CT	VOC	CE	SD
Year 1	14	7	8	
Year 2	3	4	1	
Year 3	2		7	
Year 4	1		4	1 (ATEC)
Total				52

Table B.5

Students who did not come back 02FA but came back 03FA (1 Year Stop Outs) = 181

Fall 2001 Year level	Program Area in 2002 FA					
	Academic (Year level in 03FA)	CT	Voc	UNCL/CE/ General	SD	Total
Year 1	72 (49 to year 1, 20 to year 2, 3 to year 3)	13	16	14	6	121
Year 2	31 (16 to year 2, 15 to year 3)	3	2	2	2	40
Year 3	15 (8 to year 3, 7 to year 4)					15
Year 4	4 (4 back to year 4)					4
Pos Bacc.				1		1
Total	122	16	18	17	8	181

2002 FALL ACADEMIC COHORT – 1 YEAR PROGRESSION

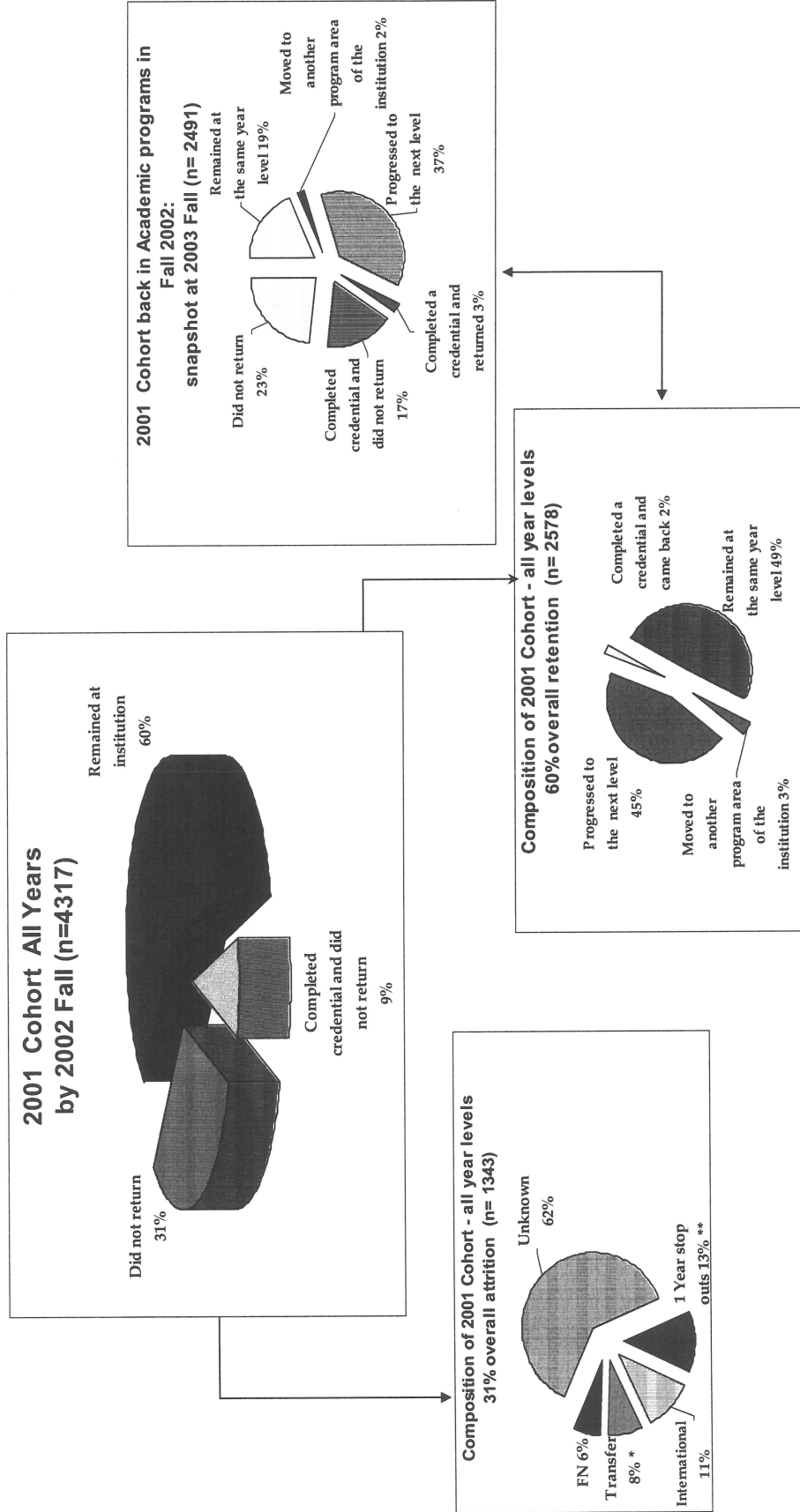
Table B.6

Academic Programs	FALL 2002	FALL 2003					Total that came back to UCC 02/FA	DNR/ Transfer
		Remained Same level	Progressed next level	Completed Credential & DNR	Completed Credential & Returned	Moved to Other area of UCC		
Year 1	2213	577 (26.1%)	571 (25.8%)	20 (0.9%)	7 (0.3%)	119 (5.4%)	1274 (57.6%)	919 (41.5%)
Year 2	869	111 (12.8%)	467 (53.7%)	21 (2.4%)	18 (2.0%)	16 (1.8%)	612 (70.4%)	236 (27.2%)
Year 3	938	227 (24.2%)	359 (38.3%)	140 (14.9%)	33 (3.5%)	14 (1.5%)	633 (67.5%)	165 (17.6%)
Year 4	438	89 (20.3%)	-	284 (64.8%)	8 (1.8%)	12 (2.7%)	109 (24.9%)	45 (10.3%)
Post Bac. Dipl	3	-	-	1 (33.3%)	-	1 (33.3%)	1 (33.3%)	1 (33.3%)
Total	4461	1004	1397	466 (10.4%)	66	162	2629 (59.0%)	1366 (30.6%)

Appendix C: Retention & Attrition Graphs

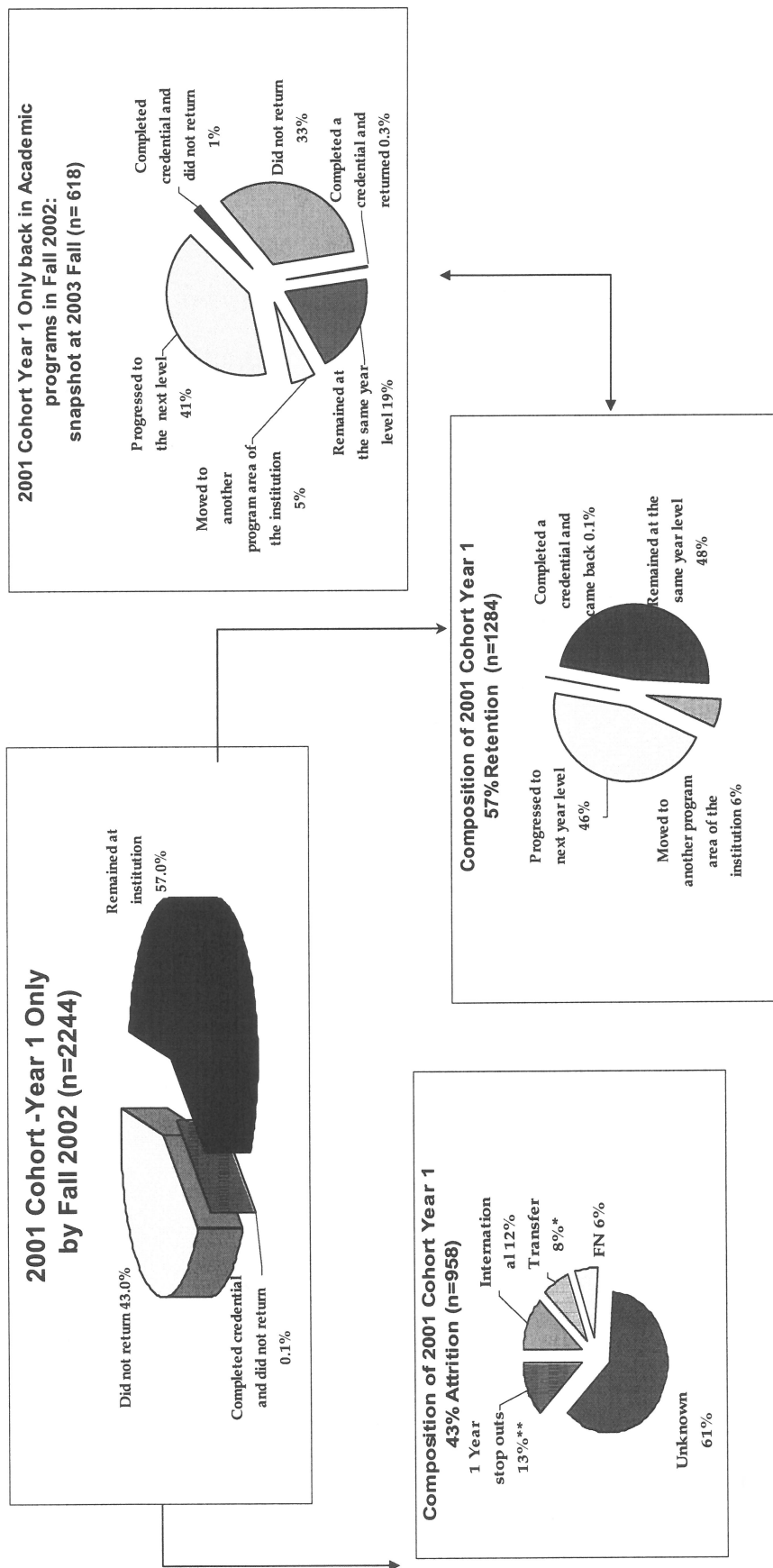
Graph C.1

2001 Academic Cohort - All Year Levels by Fall 2003



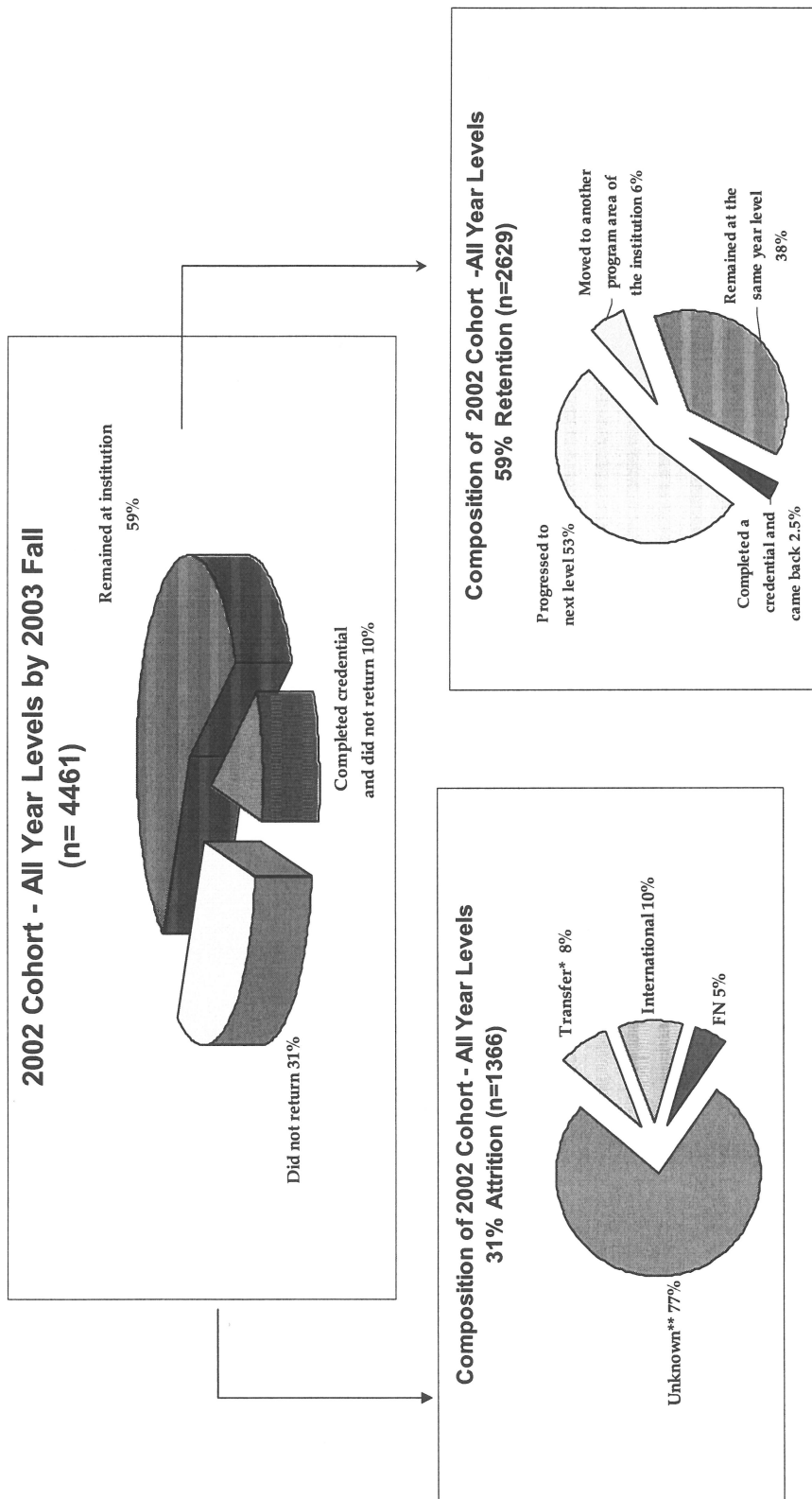
* This is an estimate of transfer students based on SORS data. The percentage is likely higher as SORS only includes those with 24 credits or more.
 ** Stop Outs are students who did not return in 02FA but came back for 03FA. The percentage is likely higher as some students may take more than a 1 year break in their studies.

Graph C.2
2001 academic Cohort - Year One Only by Fall 2003



* This is an estimate of transfer students based on SORS data. The percentage is likely higher as SORS only includes those with 24 credits or more.
 ** Stop Outs are students who did not return in 02FA but came back for 03FA. The percentage is likely higher as some students may take more than a 1 year break in their studies.

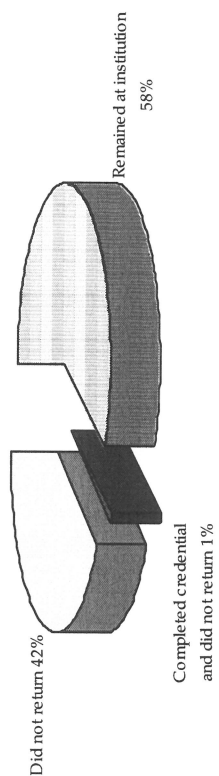
Graph C.3
2002 Academic Cohort - All Year Levels by Fall 2003



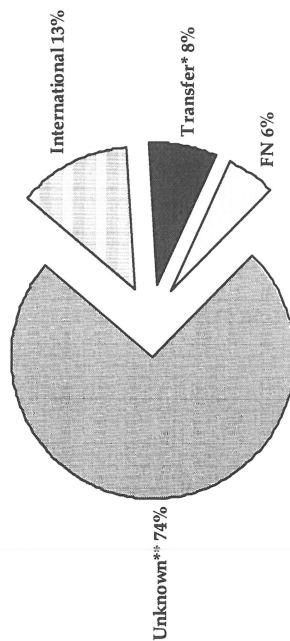
* This is an estimate of transfer students based on SORS data. The percentage is likely higher as SORS only includes those with 24 credits or more.
 ** Unknown includes Stop Outs, the number of one year stop out will be known by Fall 2004.

Graph C.4
2002 Academic Cohort - Year One Only by Fall 2003

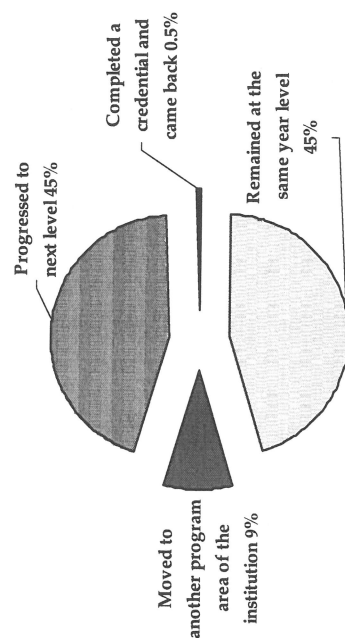
2002 Cohort Year 1 Only
by 2003 Fall (n=2213)



Composition of 2002 Cohort - Year 1 Only
42% Attrition (n=919)



Composition of 2002 Cohort Year 1 Only
58% Retention (n=1274)



This is an estimate of transfer students based on SORS data. The percentage is likely higher as SORS only includes those with 24 credits or more.
* Unknown includes Stop Outs, the number of one year stop out will be known by Fall 2004.

2001 COHORT LEAVERS PROFILE

Table D.1

2001 COHORT DNR / TRANSFERRED BY 2002 FALL										
Age Category	Gender								TOTAL	% of all students
	Male				Female					
	Intl	FN	Domestic (Not FN)	Total	Intl	FN	Domestic (Not FN)	Total		
17-19	2	1	70	73	2	7	124	133	206	17.7%
20-21	30	10	142	182	13	12	187	212	394	33.9%
22-24	37	4	84	125	23	4	106	133	258	22.2%
25-29	8	4	49	61	9	10	64	83	144	12.4%
30-34		2	19	21	2	8	36	46	67	5.8%
35+		2	21	23		8	62	70	93	8.0%
Subtotal	77	23	385	485	49	49	579		1162	
TOTAL										100.0%

Excludes the 181 students who came back for Fall 2003 (1 Year stop outs)

Table D.2

2001 COHORT DNR / TRANSFERRED BY 2002 FALL										
Year Level in 01FA	Gender							TOTAL	% of all students	
	Male				Female					
	Intl	FN	Domestic (Not FN)	Total	Intl	FN	Domestic (Not FN)			Total
Year 1	72	19	270	361	44	40	391	475	836	71.9%
Year 2	2	3	74	79	4	6	102	112	191	16.4%
Year 3	2	1	25	28	1	3	62	66	94	8.1%
Year 4	1		16	17			24	24	41	3.5%
Subtotal	77	23	385	485	49	49	579	677	1162	
TOTAL										100.0%

Table D.3

2001 COHORT DNR/ TRANSFERRED BY 2002 FALL

Cmpl Credits	Age Category															TOTAL	% of all students				
	17-19			20 - 21			22-24			25-29			30-34					35+			
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total			Male	Female	Total	
0	11	13	24	15	12	27	7	5	12	2	1	3		1	1	2			69	5.9%	
9 or less	19	37	56	33	30	63	19	13	32	4	15	19				2					
10 to 15	14	29	43	20	27	47	10	17	27	3	7	10	1	3	4	2	4		6	180	15.5%
16-25	13	25	38	35	38	73	14	13	27	7	6	13	1	8	9	1	3	4	4	136	11.7%
26-35	4	23	27	28	31	59	19	11	30	6	3	9	1	3	4	2	8	12	12	172	14.8%
36-45	11	5	16	18	38	56	17	12	29	9	13	22	3	3	6	2	8	10	10	139	12.0%
46-55	1	1	2	14	13	27	6	16	22	8	8	16	2	6	8	3	6	9	10	139	12.0%
56-65				14	16	30	11	8	19	2	5	7	1		1		3	3	84	7.2%	
66-75				2	4	6	6	11	17	3	2	5	2	3	5	2	7	3	60	5.2%	
76-85				2	3	5	6	10	16	4	5	9	1	1	2	1	5	9	42	3.6%	
86-100					1	1	6	4	10	2	4	6	3	3	6	1	2	6	38	3.3%	
100 +							4	13	17	11	14	25	3	13	16	3	16	3	26	2.2%	
Subtotal	73	133	206	181	213	394	125	133	258	61	83	144	21	46	67	23	70	19	77	1162	100.0%
TOTAL																					

* age shown is age as Jan 2003 – the closest January to the time they left the institution.

Completed credits include all of their institutional credits

* age shown is age as Jan 2003 - the closest January to the time they left the institution.
Completed credits include all of their institutional credits

2001 COHORT DNR/ TRANSFERRED BY 2002 FALL

2001 COHORT DNR/ TRANSFERRED BY 2002 FALL																					
Cum GPA	Age Category																		TOTAL	% of all students	
	17-19			20-21			22-24			25-29			30-34			35+					
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total			
0	11	13	24	16	14	30	7	6	13	2	2	4		1	1	2	1	3	75	6.5%	
0.1-0.9	14	14	28	23	16	39	11	10	21	2	7	9		2	2	1	2	3	102	8.8%	
1.0-1.99	15	30	45	51	50	101	27	33	60	15	14	29	5	10	15	3	11	14	264	22.7%	
2.0-2.99	16	44	60	57	77	134	58	42	100	27	30	57	9	18	27	11	23	34	412	35.5%	
3.0-3.99	17	31	48	35	54	89	21	42	63	15	30	45	7	15	22	4	32	36	303	26.1%	
4		1	1		1	1	1		1				21	46		2	1	3	6	0.5%	
Subtotal TOTAL	73	133	206	182	212	394	125	133	258	61	83	144			67	23	70		93	1162	100.0%

Table D.5

[illegible]

2002 COHORT LEAVERS PROFILE

Table D.6

2002 COHORT DNR / TRANSFERRED BY 2003 FALL										
Age Category	Gender								TOTAL	% of all students
	Male				Female					
	(Not FN)				Domestic (Not FN)					
	Intl	FN	Total	Intl	FN	Total				
17-19	5	2	96	103	2	2	145	149	252	18.4%
20-21	25	8	166	199	21	11	227	259	458	33.5%
22-24	38	5	107	150	13	9	136	158	308	22.5%
25-29	14	5	52	71	11	11	79	101	172	12.6%
30-34	4	1	24	29	1	2	26	29	58	4.2%
35+	1	5	28	34	1	10	73	84	118	8.6%
Subtotal	87	26	473	586	49	45	686	780	1366	100.0%
TOTAL										

Table D.7

2002 COHORT DNR / TRANSFERRED BY 2003 FALL										
Year Level in 02FA	Gender								TOTAL	% of all students
	Male				Female					
	Intl	FN	Domestic (Not FN)	Total	Intl	FN	Domestic (Not FN)	Total		
Year 1	74	21	320	415	43	30	431	504	919	67.3%
Year 2	6	3	75	84	5	7	140	152	236	17.3%
Year 3	4	2	60	66		6	93	99	165	12.1%
Year 4	3		18	21		2	22	24	45	3.3%
Post Baccalaureate					1			1	1	0.1%
Subtotal	87	26	473		49	45	686			
TOTAL				586				780	1366	100.0%

Table D.8

2002 COHORT DNR/ TRANSFERRED BY 2003 FALL																										
Cmpl Creds	Age Category																							TOTAL	% of all students	
	17-19		20 - 21		22-24		25-29		30-34		35+															
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total											
0	17	20	37	25	20	45	6	3	9	7	2	9	1	1	2	1								103	7.5%	
9 or less	25	45	70	33	33	66	11	11	22	8	6	14	2	3	5	2									186	13.6%
10 to 15	14	15	29	27	26	53	12	7	19	4	3	7		2	2	1									119	8.7%
16-25	27	40	67	33	45	78	22	14	36	4	10	14	2	1	3	2									205	15.0%
26-35	13	23	36	27	31	58	20	27	47	4	10	14	2	3	5	3									175	12.8%
36-45	7	4	11	21	44	65	15	16	31	6	9	15	3	3	6	5									140	10.2%
46-55		2	2	15	20	35	14	8	22	4	7	11	3	1	4	7									87	6.4%
56-65				11	31	42	10	22	32	5	10	15		1	1	2									97	7.1%
66-75				5	6	11	16	11	27	9	12	21	1	3	4	3									74	5.4%
76-85				1		1	5	9	14	3	6	9	2	4	6	1									35	2.6%
86-100				1	2	3	11	13	24	5	6	11	6	3	9	1									54	4.0%
100 +					1	1	8	17	25	12	20	32	5	6	11	6									91	6.7%
Subtotal	103	149	252	199	259	458	150	158	308	71	101	172	27	31	58	34									1366	100.0%
TOTAL																										
* age shown is age as Jan 2004 - the closest January to the time they left the institution. Completed credits include all of their institutional credits																										

* age shown is age as Jan 2004 - the closest January to the time they left the institution.

Completed credits include all of their institutional credits

2002 COHORT DNR/TRANSFERRED BY 2003 FALL

2002 COHORT DNR/ TRANSFERRED BY 2003 FALL																				
Cum GPA	Age Category																		TOTAL	% of all students
	17-19		20-21		22-24		25-29		30-34		35+									
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total					
0	17	20	37	27	23	50	7	8	15	10	4	14	2	2	4	1	2	3	123	9.0%
0.1-0.9	12	21	33	16	19	35	2	4	6	3	4	7	2	1	3		3	3	87	6.4%
1.0-1.99	27	36	63	51	65	116	41	34	75	17	21	38	6	7	13	6	11	17	322	23.6%
2.0-2.99	32	47	79	78	91	169	71	62	133	25	33	58	12	9	21	18	33	51	511	37.4%
3.0-3.99	14	24	38	24	54	78	28	50	78	16	36	52	7	10	17	9	33	42	305	22.3%
4	1	1	2	3	7	10	1		1		3	3					2	2	18	1.3%
Subtotal TOTAL	103	149	252	199	259	458	150	158	308	71	101	172	29	29	58	34	84	118	1366	100%

Table D.10

2002 COHORT DNR/ TRANSFERRED BY 2003 FALL																	
Cum	Year Level in 02/FA																
GPA	Year 1			Year 2			Year 3			Year 4		Post Baccalaureate			TOTAL	% of all students	
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female			Total
0	60	53	113	3	2	5	1	3	4		1	1				123	9.0%
0.1 – 0.9	35	46	81		3	3		3	3							87	6.4%
1.0 – 1.99	123	128	251	13	33	46	11	12	23	1	1	2				322	23.6%
2.0 – 2.99	146	164	310	43	64	107	34	35	69	13	12	25				511	37.4%
3.0 – 3.99	47	102	149	24	48	72	20	46	66	7	10	17		1	1	305	22.3%
4	4	11	15	1	2	3										18	1.3%
Subtotal	415	504		84	152	236	66	99		21	24			1			100.0%
TOTAL			919						165		45				1	1366	