

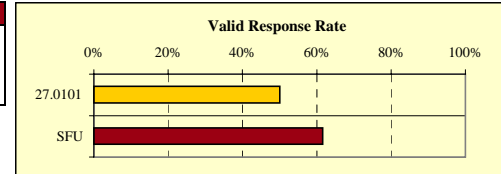
B.C. University Student Outcomes 2003 Survey of 1998 Baccalaureate Graduates

Detailed Summary of Survey Results
Simon Fraser University
6 Digit CIP: 27.0101: Mathematics

■ SFU
■ 27.0101

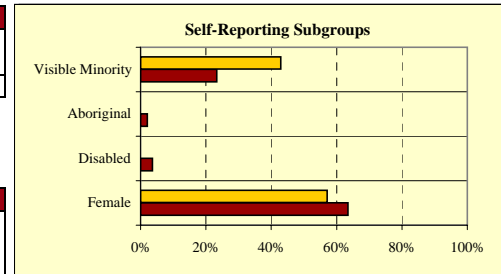
RESPONSE RATE

1. Survey Response Rate:	27.0101	SFU	
1998 Baccalaureate Graduates Survey Cohort	17	2,655	
Net Frame	14	2,406	
Survey Respondents and Valid Response Rate	7	50%	1,482 62%



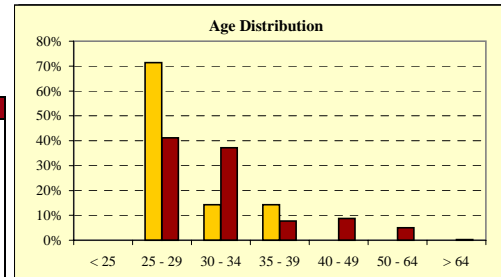
DEMOGRAPHIC INFORMATION

2. Gender:	27.0101	SFU	
Male	3	43%	542 37%
Female	4	57%	940 63%
Total	7	100%	1,482 100%

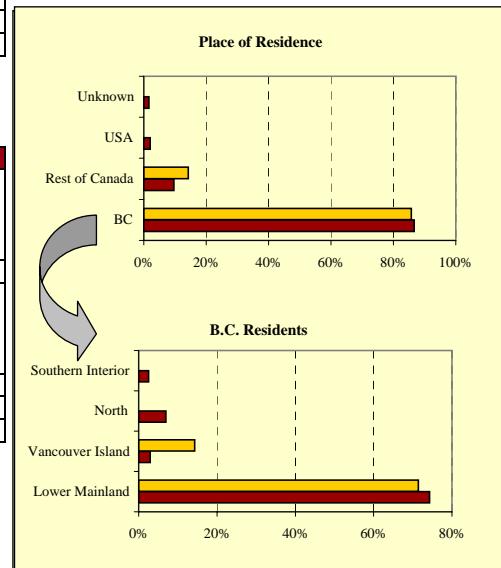


3. Self-Reporting Subgroups:	27.0101	SFU	
Disabled	-	0%	54 4%
Aboriginal	-	0%	30 2%
Visible Minority	3	43%	346 23%

4. Age (at time of survey):	27.0101	SFU	
< 25	-	0%	- 0%
25 to 29	5	71%	610 41%
30 to 34	1	14%	550 37%
35 to 39	1	14%	115 8%
40 to 49	-	0%	130 9%
50 to 64	-	0%	74 5%
> 64	-	0%	3 0%
Unknown	-	0%	- 0%
Total	7	100%	1,482 100%
Mean Age:	29.7	32.8	

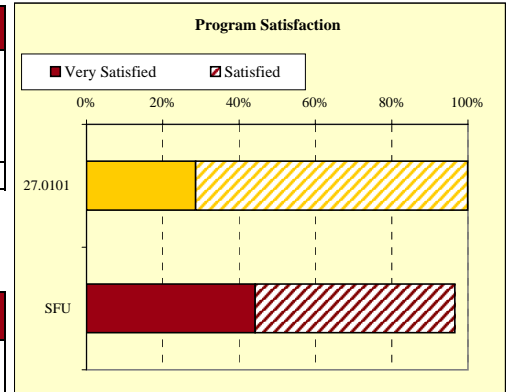


5. Place of Residence (at time of survey):	27.0101	SFU	
BC - Lower Mainland	5	71%	1,101 74%
BC - Vancouver Island	1	14%	43 3%
BC - North	-	0%	103 7%
BC - Southern Interior	-	0%	37 2%
BC Subtotal	6	86%	1,284 87%
Canada - Alberta	1	14%	57 4%
Canada - Ontario	-	0%	56 4%
Canada - Other	-	0%	30 2%
U.S.A.	-	0%	31 2%
Non-BC Subtotal	1	14%	174 12%
Unknown	-	0%	24 2%
Total	7	100%	1,482 100%

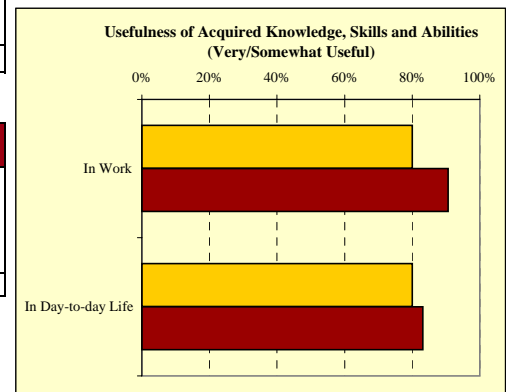


EDUCATION EVALUATION

8. Program Satisfaction:	27.0101		SFU	
Very Satisfied	2	29%	653	44%
Satisfied	5	71%	776	53%
Dissatisfied	-	0%	42	3%
Very Dissatisfied	-	0%	7	0%
Total	7	100%	1,478	100%

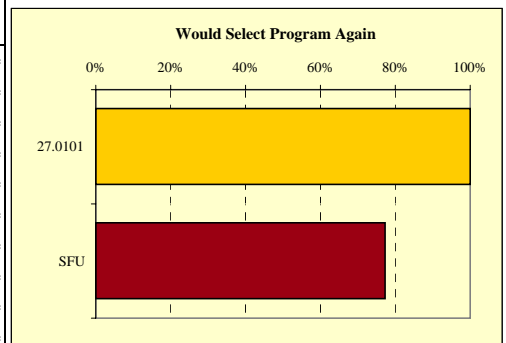


6. Usefulness of Knowledge, Skills, and Abilities Acquired at University in Work:	27.0101		SFU	
Very Useful	3	60%	582	45%
Somewhat Useful	1	20%	595	46%
Not Very Useful	1	20%	92	7%
Not at All Useful	-	0%	30	2%
Total	5	100%	1,299	100%



7. Usefulness of Knowledge, Skills, and Abilities Acquired at University in Day-to-day Life:	27.0101		SFU	
Very Useful	1	20%	348	27%
Somewhat Useful	3	60%	730	56%
Not Very Useful	1	20%	200	15%
Not at All Useful	-	0%	18	1%
Total	5	100%	1,296	100%

9. Would you select the same program again?	27.0101		SFU	
Yes	7	100%	1,110	77%
No, because . . . (multiple response question)	-		326	
. . . interests have changed	N/A	N/A	94	23%*
. . . courses were not practical	N/A	N/A	90	22%*
. . . little or no career opportunities	N/A	N/A	106	26%*
. . . not enough course variety	N/A	N/A	7	2%*
. . . skills acquired were not very useful	N/A	N/A	9	2%*
. . . courses were poorly taught	N/A	N/A	5	1%*
. . . program was too general	N/A	N/A	49	12%*
. . . did not agree with grading system	N/A	N/A	1	0%*
. . . did not like institution	N/A	N/A	2	0%*
. . . other	N/A	N/A	52	13%*



* Percent of total responses, among those who would not take program again

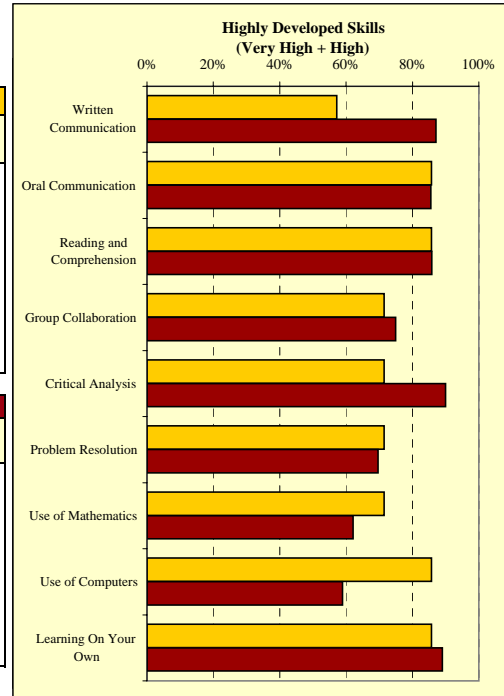
SKILL DEVELOPMENT

14a.

To what degree did university help you develop the following skills?	27.0101				# Resp.
	Very High	High	Low	Very Low	
Written Communication	14%	43%	29%	14%	7
Oral Communication	29%	57%	14%	0%	7
Reading and Comprehension	29%	57%	14%	0%	7
Group Collaboration	29%	43%	29%	0%	7
Critical Analysis	57%	14%	29%	0%	7
Problem Resolution	43%	29%	0%	29%	7
Use of Mathematics Appropriate to Field	43%	29%	14%	14%	7
Use of Computers Appropriate to Field	43%	43%	14%	0%	7
Learning On Your Own	71%	14%	0%	14%	7

14b.

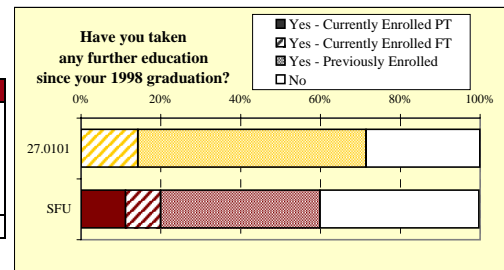
To what degree did university help you develop the following skills?	SFU				# Resp.
	Very High	High	Low	Very Low	
Written Communication	40%	47%	11%	2%	1,452
Oral Communication	32%	54%	12%	2%	1,463
Reading and Comprehension	42%	44%	12%	2%	1,449
Group Collaboration	29%	46%	21%	4%	1,453
Critical Analysis	50%	40%	8%	2%	1,472
Problem Resolution	20%	50%	26%	4%	1,438
Use of Mathematics Appropriate to Field	26%	36%	23%	14%	1,083
Use of Computers Appropriate to Field	23%	36%	29%	13%	1,250
Learning On Your Own	45%	44%	9%	2%	1,455



FURTHER EDUCATION

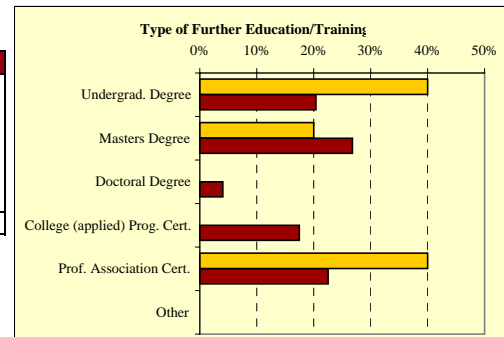
15.

Took further formal education since 1998 graduation	27.0101	SFU
Yes:	5 (71%)	892 (60%)
Not currently enrolled	4 (57%)	592 (40%)
Currently enrolled full-time	1 (14%)	131 (9%)
Currently enrolled part-time	- (0%)	165 (11%)
No	2 (29%)	590 (40%)
Total	7 (100%)	1,482 (100%)



16.

Type of Formal Post-Secondary Education	27.0101	SFU
Undergraduate Degree	2 (40%)	182 (20%)
Masters Degree	1 (20%)	239 (27%)
Doctoral Degree	- (0%)	36 (4%)
College (applied) Program Certification	- (0%)	156 (17%)
Professional Association Certification	2 (40%)	201 (23%)
Other	- (0%)	- (0%)
Total Respondents	5 (100%)	892 (100%)

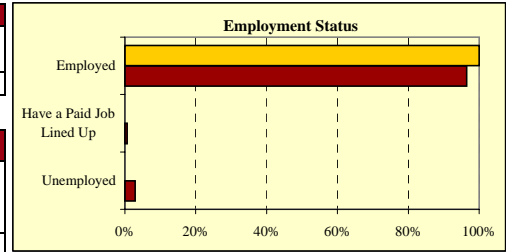


Detailed Summary of Survey Results
Simon Fraser University
6 Digit CIP: 27.0101: Mathematics

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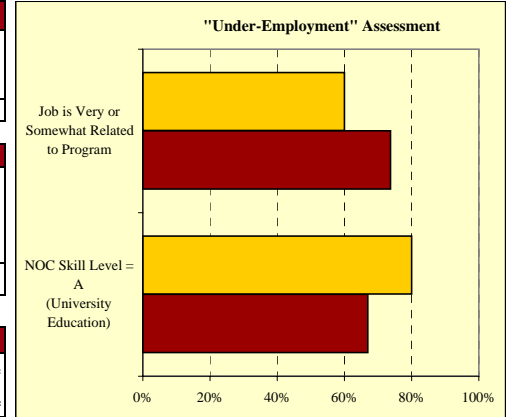
EMPLOYMENT

17. Labour Force Status:	27.0101	SFU		
In Labour Force (working or seeking work)	5	71%	1,348	91%
Not in Labour Force	2	29%	132	9%
Grand Total	7	100%	1,480	100%



18. Employment Status of those IN Labour Force:	27.0101	SFU		
Employed	5	100%	1,301	97%
Have a Paid Job Lined Up	-	0%	8	1%
Unemployed	-	0%	39	3%
Total Labour Force	5	100%	1,348	100%

19. Status of Graduates NOT in Labour Force:	27.0101	SFU		
Attending School FT	1	50%	42	32%
Attending School PT	-	0%	4	3%
Other	1	50%	86	65%
Total NOT in Labour Force	2	100%	132	100%

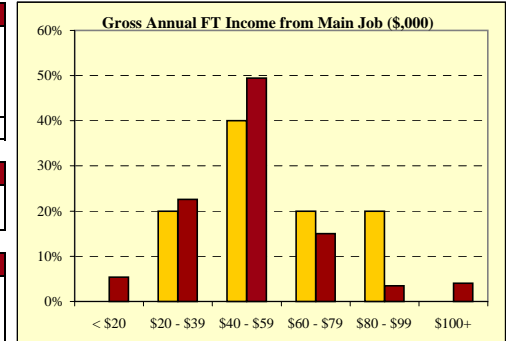


20. Employment Type:	27.0101	SFU		
Paid worker	5	100%	1,158	89%
Self-employed	-	0%	83	6%
Both a paid worker and self-employed	-	0%	60	5%
Total Employed	5	100%	1,301	100%

21. Job Characteristics:	27.0101	SFU		
I hold more than one job	-	0%*	184	14%*
My main job is full-time (>= 30 hours per week)	5	100%**	1,108	87%**

* of total employed ** of those who provided data on hours/week worked

22. How related is your main job to your program?	27.0101	SFU		
Very Related	3	60%	539	41%
Somewhat Related	-	0%	420	32%
Not Very Related	1	20%	177	14%
Not At All Related	1	20%	165	13%
Total	5	100%	1,301	100%

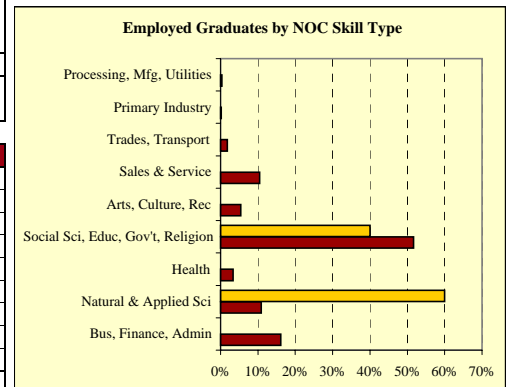


23. "Under-employment" Assessment:	27.0101	SFU		
Job is very or somewhat related to program	3	60%	959	74%
NOC Skill Level = A (University Education)	4	80%	865	67%

* of total valid responses

24. Gross Annual Income from Main Job:*	27.0101	SFU		
Less than \$20,000	-	0%	63	5%
\$20,000 to \$39,999	1	20%	263	23%
\$40,000 to \$59,999	2	40%	575	49%
\$60,000 to \$79,999	1	20%	175	15%
\$80,000 to \$99,999	1	20%	40	3%
\$100,000 and Above	-	0%	47	4%
Total	5	100%	1,163	100%
Median Annual Income (full-time)	\$53,000		\$48,000	
Average Annual Income (full-time)	\$55,800		\$52,970	

* where data provided



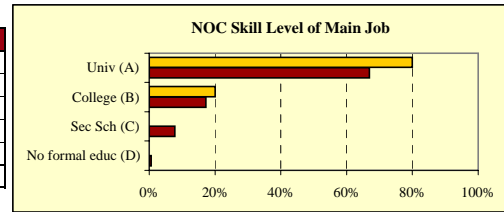
25. NOC Skill Type of Main Job:	27.0101	SFU		
Business, Finance and Administration	-	0%	207	16%
Natural and Applied Sciences and Related	3	60%	140	11%
Health	-	0%	43	3%
Social Sciences, Educ., Gov't Services, Religion	2	40%	664	52%
Arts, Culture, Recreation and Sport	-	0%	69	5%
Sales and Service	-	0%	134	10%
Trades, Transport and Eqp. Operators and Related	-	0%	23	2%
Unique to the Primary Industry	-	0%	2	0%
Unique to Processing, Manufacturing and Utilities	-	0%	4	0%
Total	5	100%	1,286	100%

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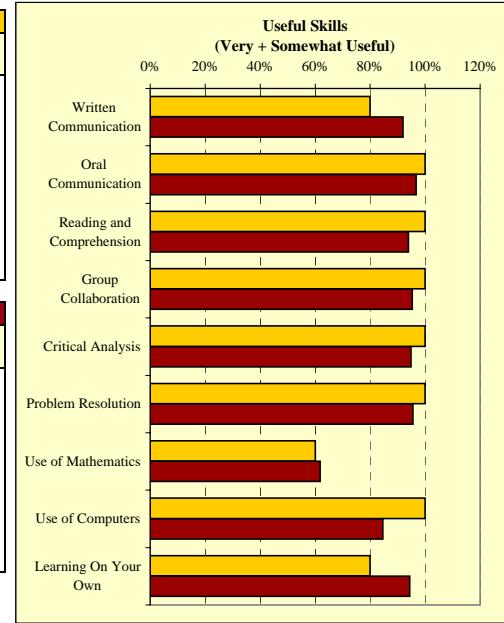
■ SFU
■ 27.0101

EMPLOYMENT, continued

26. NOC Skill Level of Main Job:	27.0101		SFU	
A. University education	4	80%	865	67%
B. College education/trade apprenticeship	1	20%	222	17%
C. Secondary school + job-specific training	-	0%	101	8%
D. No formal education	-	0%	8	1%
No skill level assigned (management)	-	0%	96	7%
Total	5	100%	1,292	100%



27a. How useful are the following skills and abilities in doing your main job?	27.0101				
	Very Useful	Somewhat Useful	Not Very Useful	Not at all Useful	# Resp.
Written Communication	60%	20%	20%	0%	5
Oral Communication	100%	0%	0%	0%	5
Reading and Comprehension	80%	20%	0%	0%	5
Group Collaboration	80%	20%	0%	0%	5
Critical Analysis	100%	0%	0%	0%	5
Problem Resolution	80%	20%	0%	0%	5
Use of Mathematics Appropriate to Field	60%	0%	40%	0%	5
Use of Computers Appropriate to Field	80%	20%	0%	0%	5
Learning On Your Own	60%	20%	20%	0%	5



27b. How useful are the following skills and abilities in doing your main job?	SFU				
	Very Useful	Somewhat Useful	Not Very Useful	Not at all Useful	# Resp.
Written Communication	70%	22%	5%	3%	1,299
Oral Communication	80%	17%	3%	1%	1,299
Reading and Comprehension	70%	24%	4%	1%	1,298
Group Collaboration	77%	18%	4%	1%	1,298
Critical Analysis	72%	23%	4%	1%	1,300
Problem Resolution	77%	19%	4%	1%	1,300
Use of Mathematics Appropriate to Field	29%	33%	21%	17%	1,279
Use of Computers Appropriate to Field	50%	35%	10%	5%	1,291
Learning On Your Own	65%	29%	4%	1%	1,299

28a. Top 10 Full-time Occupations of 27.0101 Graduates:	27.0101		
NOC	NOC Skill Level Description	% Employed FT in this Occ.**	Median FT Salary
2161	A Mathematicians, Statisticians & Actuaries	40%	\$75,000
*			
*			
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*data not displayed where n < 2 **percentages cited are of those for whom occupational data was provided, full-time and part-time

28b. Top 10 Full-time Occupations of Graduates from Simon Fraser University:	SFU		
NOC	NOC Skill Level Description	% Employed FT in this Occ.**	Median FT Salary
4142	A Elem & Kindergarten Teacher	18%	\$46,000
4141	A Secondary School Teachers	11%	\$45,000
1111	A Financial Auditors & Accountants	3%	\$48,000
2173	A Software Engineers	2%	\$69,000
4112	A Lawyers & Quebec Notaries	2%	\$70,000
6261	B Police Officers (Excl Commissioned)	2%	\$61,000
5124	A Occs in Public Relations & Comm	2%	\$51,000
2174	A Computer Programmers/Interactive Media Developers	1%	\$60,000
0611	N/A Sales, Marketing & Advt Managers	1%	\$87,500
1114	A Other Financial Officers	1%	\$50,000

*data not displayed where n < 2 **percentages cited are of those for whom occupational data was provided, full-time and part-time

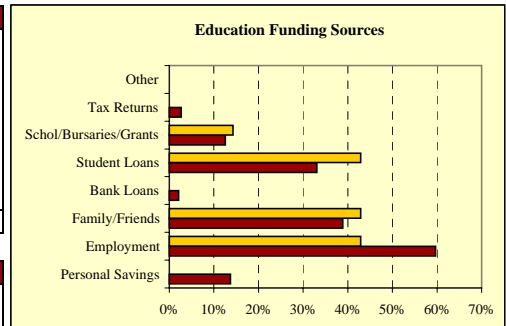
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■ SFU
■ 27.0101

EDUCATION FINANCING

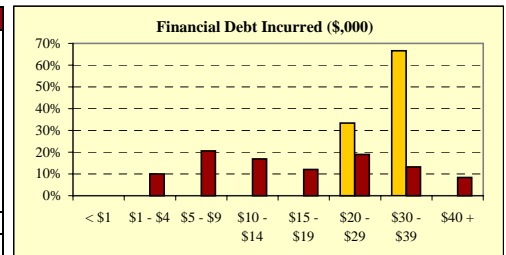
29. Education Funding Sources (2 sources per respondent):	27.0101	SFU
Personal Savings	- 0%*	203 14%*
Employment	3 43%*	884 60%*
Family/Friends	3 43%*	576 39%*
Bank Loans	- 0%*	31 2%*
Student Loans	3 43%*	490 33%*
Scholarships/Bursaries/Grants	1 14%*	186 13%*
Tax Returns	- 0%*	39 3%*
Other	- 0%*	- 0%*
Total Respondents	7	1,482

* Percentage of respondents who identified this source



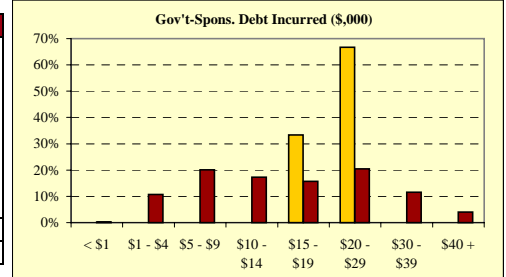
30. Financial Debt Incurred to Finance Univ. Education:	27.0101	SFU
Incurred any form of financial debt	3 43%*	582 39%
Incurred government-sponsored student loan debt	3 43%*	503 34%

* Percentage of respondents who provided data



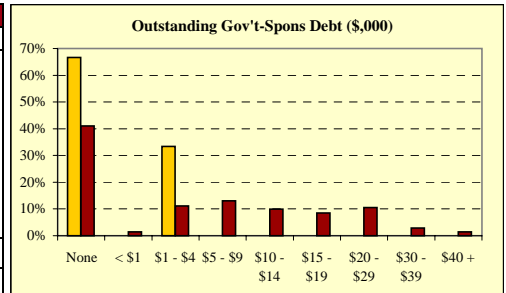
31. Financial Debt Amount:*	27.0101	SFU
< \$1,000	- 0%	- 0%
\$1,000 to \$4,999	- 0%	58 10%
\$5,000 to \$9,999	- 0%	120 21%
\$10,000 to \$14,999	- 0%	98 17%
\$15,000 to \$19,999	- 0%	70 12%
\$20,000 to \$29,999	1 33%	110 19%
\$30,000 to \$39,999	2 67%	77 13%
\$40,000 or More	- 0%	49 8%
Total	3	582
Median Financial Debt	\$30,000	\$15,000

*includes only cases where financial debt was incurred



32. Government-Sponsored Student Loan Debt Amount:*	27.0101	SFU
< \$1,000	- 0%	1 0%
\$1,000 to \$4,999	- 0%	54 11%
\$5,000 to \$9,999	- 0%	101 20%
\$10,000 to \$14,999	- 0%	87 17%
\$15,000 to \$19,999	1 33%	79 16%
\$20,000 to \$29,999	2 67%	103 20%
\$30,000 to \$39,999	- 0%	58 12%
\$40,000 or More	- 0%	20 4%
Total	3	503
Median Gov't-Sponsored Student Loan Debt	\$25,000	\$15,000

*includes only cases where government-sponsored debt was incurred

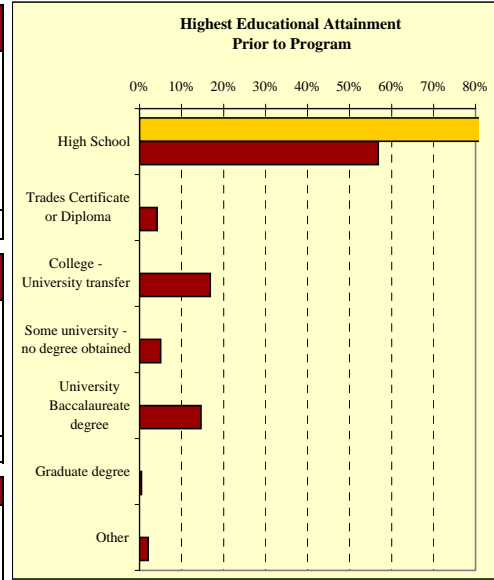


33. Outstanding Gov't-Sponsored Loan Debt Amount:*	27.0101	SFU
None - Loan repaid in full	2 67%	198 41%
< \$1,000	- 0%	7 1%
\$1,000 to \$4,999	1 33%	54 11%
\$5,000 to \$9,999	- 0%	63 13%
\$10,000 to \$14,999	- 0%	48 10%
\$15,000 to \$19,999	- 0%	41 8%
\$20,000 to \$29,999	- 0%	51 11%
\$30,000 to \$39,999	- 0%	14 3%
\$40,000 or More	- 0%	7 1%
Total	3	483
Median Gov't-Sponsored Loan Debt Outstanding	\$0	\$3,500

*includes only cases where government-sponsored debt was incurred, and valid "amount remaining" was provided

SPECIAL SECTION ON CAREER TRANSITIONS

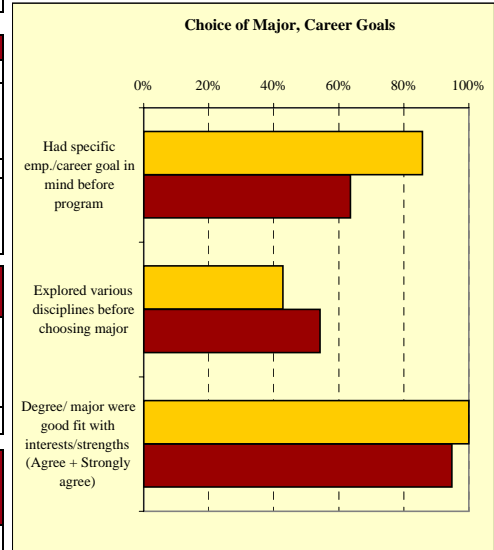
34. Prior to starting [program], what was your highest level of educational attainment?	27.0101		SFU	
High School	7	100%	841	57%
Trades Certificate or Diploma	-	0%	62	4%
College - University transfer	-	0%	249	17%
Some university - no degree obtained	-	0%	74	5%
University Baccalaureate degree	-	0%	217	15%
Graduate degree	-	0%	7	0%
Other	-	0%	30	2%
Total	7	100%	1,480	100%



35. Prior to starting [program], what best describes your employment background?	27.0101		SFU	
I was happily employed in a chosen career	1	14%	218	15%
I held one or more unsatisfying jobs	2	29%	457	31%
I was never employed on a steady basis	3	43%	361	24%
I held one or more satisfying jobs (but not a career)	-	0%	235	16%
I was a student	1	14%	193	13%
Other	-	0%	12	1%
Total	7	100%	1,476	100%

36. Deciding on career, university major:	27.0101		SFU	
When I started [program], I had a specific career/employment goal in mind	6	86%*	915	64%*
I explored a variety of disciplines at university before deciding/confirming choice of major	3	43%*	777	54%*

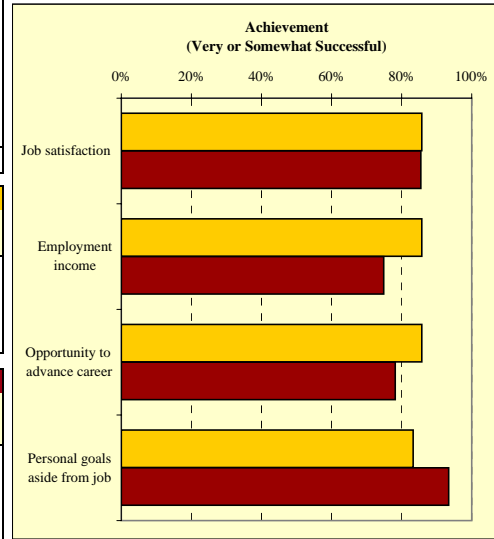
*percentages are of respondents who answered "yes" or "no"



37. Change in career/employment expectations:	27.0101		SFU	
During Program:				
Changed significantly	1	14%	330	22%
Changed somewhat	2	29%	556	38%
Did not change at all	4	57%	588	40%
Since Graduation:				
Changed significantly	1	14%	391	26%
Changed somewhat	3	43%	567	38%
Did not change at all	3	43%	519	35%

38. Were your degree and major a good fit with your own interests and strengths?	27.0101		SFU	
Strongly agree	2	29%	731	50%
Agree	5	71%	668	45%
Disagree	-	0%	65	4%
Strongly disagree	-	0%	12	1%
Total	7	100%	1,476	100%

39. While completing [program], which of the following significantly influenced or shaped your career and program choices?	27.0101		SFU	
Work experience during studies	4	21%	640	19%
Work experience prior to studies	3	16%	424	13%
Personal experiences	5	26%	1,006	30%
Professors	3	16%	571	17%
Other counselling or advice	1	5%	219	7%
Study abroad	-	0%	86	3%
Travel (not for study)	1	5%	274	8%
Other	2	11%	124	4%
Total	19	100%	3,344	100%



40. How successful have you been in achieving the following:	27.0101				
	Very successful	Somewhat successful	Not very successful	Not at all successful	# Resp.
Job satisfaction	43%	43%	14%	0%	7
Employment income	43%	43%	14%	0%	7
Opportunity to advance career	43%	43%	14%	0%	7
Personal goals aside from job	67%	17%	17%	0%	6

41. How successful have you been in achieving the following:	SFU				
	Very successful	Somewhat successful	Not very successful	Not at all successful	# Resp.
Job satisfaction	45%	40%	10%	4%	1,449
Employment income	28%	47%	18%	7%	1,448
Opportunity to advance career	36%	42%	15%	6%	1,435
Personal goals aside from job	47%	46%	6%	1%	1,469