

# B.C. University Student Outcomes 2006 Survey of 2004 Baccalaureate Graduates

Detailed Summary of Survey Results

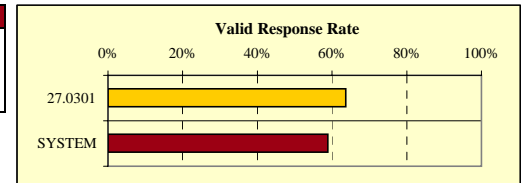
All Institutions

6 Digit CIP: 27.0301: Applied Mathematics, General

SYSTEM  
27.0301

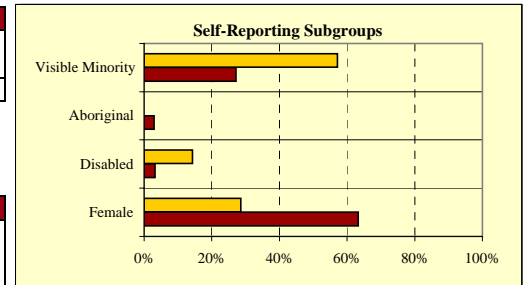
## RESPONSE RATE

1. Survey Response Rate:	27.0301	SYSTEM
2004 Baccalaureate Graduates Survey Cohort	11	15,605
Net Frame	11	13,595
Survey Respondents and Valid Response Rate	7	8,009
	64%	59%

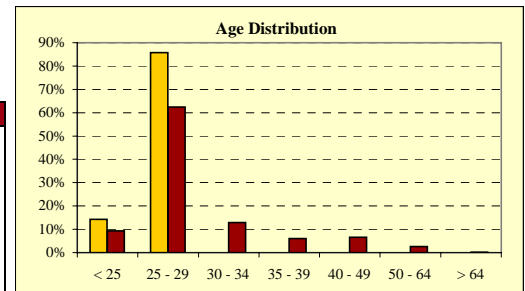


## DEMOGRAPHIC INFORMATION

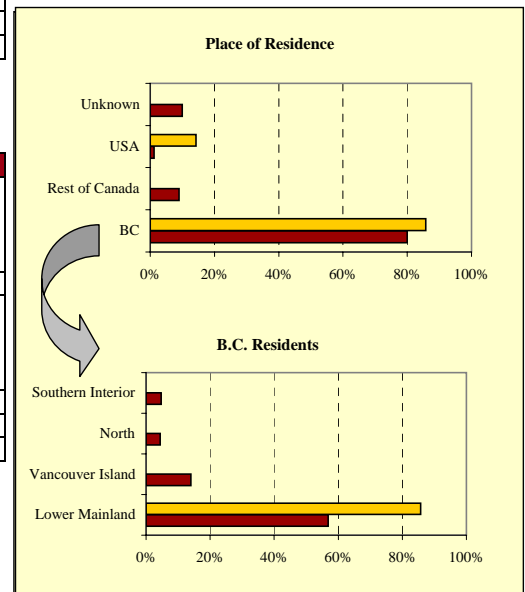
2. Gender:	27.0301	SYSTEM
Male	5	2,941
Female	2	5,067
Total	7	8,008
	100%	100%



3. Self-Reporting Subgroups:	27.0301	SYSTEM
Disabled	1	260
Aboriginal	-	232
Visible Minority	4	2,172
	14%	3%
	0%	3%
	57%	27%



4. Age (at time of survey):	27.0301	SYSTEM
< 25	1	748
25 to 29	6	4,997
30 to 34	-	1,036
35 to 39	-	478
40 to 49	-	528
50 to 64	-	213
> 64	-	9
Unknown	-	-
Total	7	8,009
Mean Age:	26.8	29.0



5. Place of Residence (at time of survey):	27.0301	SYSTEM
BC - Lower Mainland	6	4,549
BC - Vancouver Island	-	1,124
BC - North	-	353
BC - Southern Interior	-	376
BC Subtotal	6	6,402
Canada - Alberta	-	310
Canada - Ontario	-	240
Canada - Other	-	164
U.S.A.	1	94
Non-BC Subtotal	1	808
Unknown	-	799
Total	7	8,009
	100%	100%

Detailed Summary of Survey Results

All Institutions

6 Digit CIP: 27.0301: Applied Mathematics, General

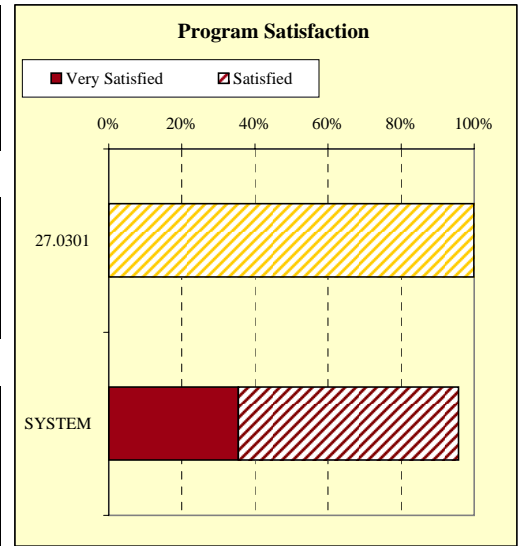
■ SYSTEM  
■ 27.0301

EDUCATION EVALUATION AND SKILL DEVELOPMENT

6. Usefulness of Knowledge, Skills, and Abilities Acquired during Program in Work:	27.0301	SYSTEM
Very Useful	- 0%	2,934 44%
Somewhat Useful	5 100%	2,942 44%
Not Very Useful	- 0%	565 8%
Not at All Useful	- 0%	247 4%

7. Usefulness of Knowledge, Skills, and Abilities Acquired during Program in Day-to-day Life:	27.0301	SYSTEM
Very Useful	1 20%	2,013 30%
Somewhat Useful	3 60%	3,611 54%
Not Very Useful	1 20%	890 13%
Not at All Useful	- 0%	179 3%

8. Program Satisfaction:	27.0301	SYSTEM
Very Satisfied	- 0%	2,832 35%
Satisfied	7 100%	4,816 60%
Dissatisfied	- 0%	288 4%
Very Dissatisfied	- 0%	51 1%
Total	7 100%	7,987 100%



9. Would you select the same program again?	27.0301	SYSTEM
Yes	3 43%	6,053 79%
No, because . . . (multiple response question)	4	1,565
. . . interests have changed	1 17%*	468 17%*
. . . courses were not practical	1 17%*	597 22%*
. . . little or no career opportunities	2 33%*	505 18%*
. . . other	2 33%*	1,197 43%*

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

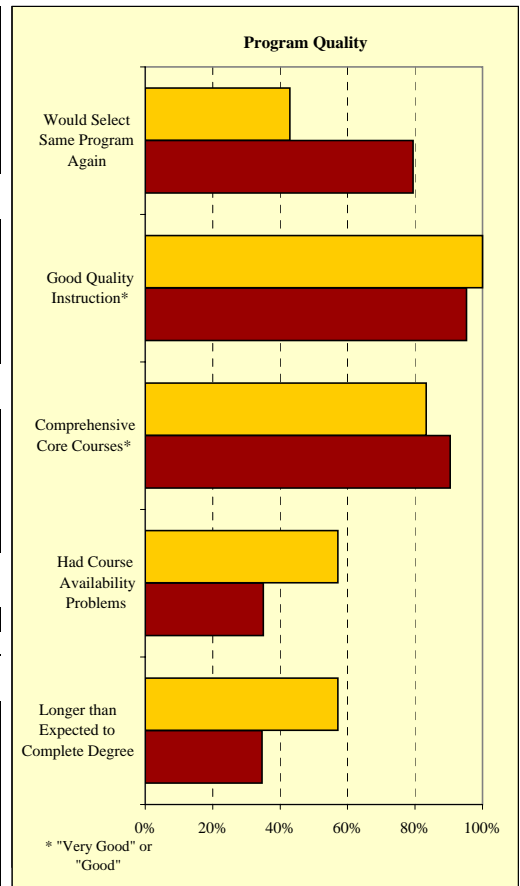
10. Quality of Instruction:	27.0301	SYSTEM
Very Good	2 29%	2,490 31%
Good	5 71%	5,096 64%
Poor	- 0%	348 4%
Very Poor	- 0%	28 0%
Total	7 100%	7,962 100%

11. Comprehensiveness of Core Courses:	27.0301	SYSTEM
Very Good	3 50%	2,045 26%
Good	2 33%	5,069 64%
Poor	1 17%	704 9%
Very Poor	- 0%	53 1%
Total	6 100%	7,871 100%

12. Course Availability:	27.0301	SYSTEM
Encountered course availability problems	4 57%	2,753 35%

13. Degree Completion:	27.0301	SYSTEM
Took longer than expected to complete degree	4 57%	2,770 35%
<b>Top 4 reasons for prolonged degree completion (multiple response question):</b>		
Personal or family reasons	- 0%*	401 8%*
Financial reasons / work	- 0%*	468 9%*
Change of major/program/specialization	2 18%*	403 8%*
Involvement in co-op program extended completion time	1 9%*	451 9%*
Other reason(s)	8 73%*	3,253 65%*

\* Percent of total responses, among those who took longer than expected to complete degree



Detailed Summary of Survey Results

All Institutions

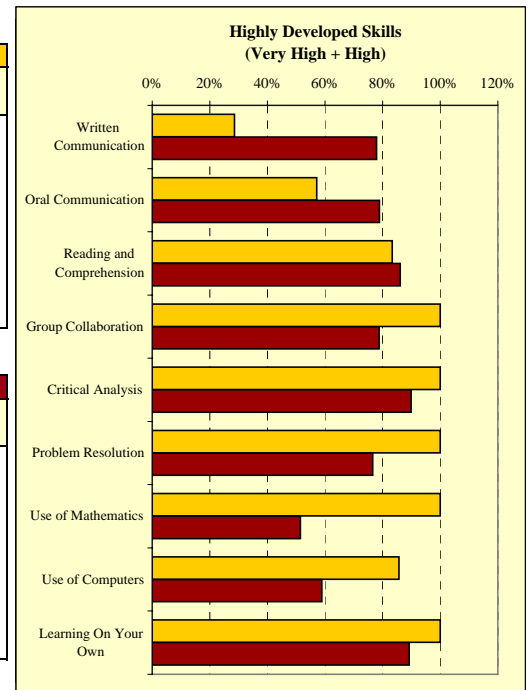
6 Digit CIP: 27.0301: Applied Mathematics, General

SYSTEM  
27.0301

SKILL DEVELOPMENT

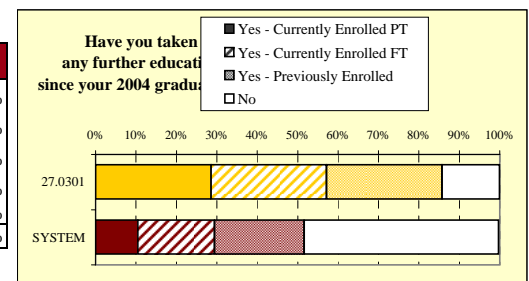
14a. To what degree did program help you develop the following skills?	27.0301				
	Very High	High	Low	Very Low	# Resp.
	Written Communication	14%	14%	43%	29%
Oral Communication	29%	29%	29%	14%	7
Reading and Comprehension	0%	83%	17%	0%	6
Group Collaboration	57%	43%	0%	0%	7
Critical Analysis	57%	43%	0%	0%	7
Problem Resolution	43%	57%	0%	0%	7
Use of Mathematics Appropriate to Field	57%	43%	0%	0%	7
Use of Computers Appropriate to Field	29%	57%	14%	0%	7
Learning On Your Own	29%	71%	0%	0%	7

14b. To what degree did program help you develop the following skills?	SYSTEM				
	Very High	High	Low	Very Low	# Resp.
	Written Communication	24%	54%	19%	3%
Oral Communication	23%	56%	19%	2%	7,662
Reading and Comprehension	31%	55%	12%	2%	7,627
Group Collaboration	32%	46%	18%	3%	7,670
Critical Analysis	41%	49%	9%	1%	7,885
Problem Resolution	21%	55%	21%	2%	7,577
Use of Mathematics Appropriate to Field	17%	35%	35%	14%	5,873
Use of Computers Appropriate to Field	20%	39%	31%	10%	6,615
Learning On Your Own	38%	52%	9%	2%	7,713

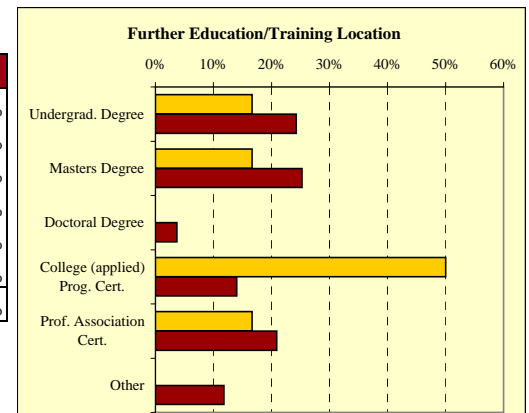


FURTHER EDUCATION

15. Took further education since 2004 graduation	27.0301	SYSTEM
Yes:	6	86%
Not currently enrolled	2	29%
Currently enrolled full-time	2	29%
Currently enrolled part-time	2	29%
No	1	14%
Total	7	100%



16. Type of Formal Post-Secondary Education	27.0301	SYSTEM
Undergraduate Degree	1	17%
Masters Degree	1	17%
Doctoral Degree	-	0%
College (applied) Program Certification	3	50%
Professional Association Certification	1	17%
Other	-	0%
Total Respondents	6	100%



Detailed Summary of Survey Results

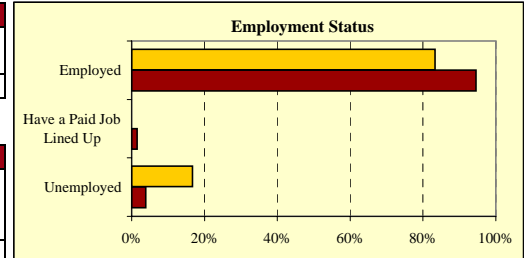
All Institutions

6 Digit CIP: 27.0301: Applied Mathematics, General

SYSTEM  
27.0301

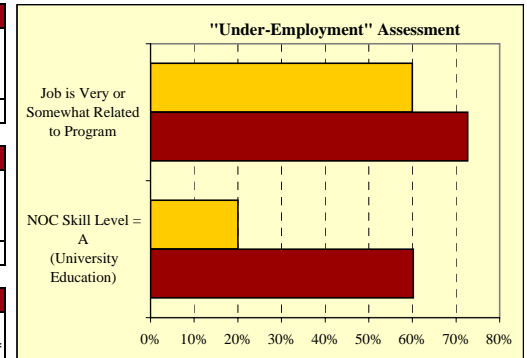
EMPLOYMENT

17. Labour Force Status:	27.0301	SYSTEM
In Labour Force (working or seeking work)	6 86%	7,092 89%
Not in Labour Force	1 14%	905 11%
Grand Total	7 100%	7,997 100%



18. Employment Status of those IN Labour Force:	27.0301	SYSTEM
Employed	5 83%	6,707 95%
Have a Paid Job Lined Up	- 0%	109 2%
Unemployed	1 17%	276 4%
Total Labour Force	6 100%	7,092 100%

19. Status of Graduates NOT in Labour Force:	27.0301	SYSTEM
Attending School FT	- 0%	677 75%
Attending School PT	- 0%	32 4%
Other	1 100%	196 22%
Total NOT in Labour Force	1 100%	905 100%

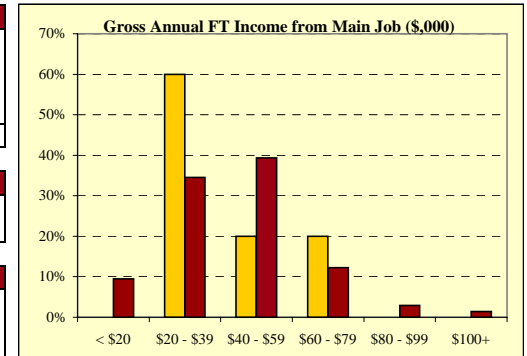


20. Employment Type:	27.0301	SYSTEM
Paid worker	5 100%	6,048 90%
Self-employed	- 0%	356 5%
Both a paid worker and self-employed	- 0%	300 4%
Total Employed	5 100%	6,707 100%

21. Job Characteristics:	27.0301	SYSTEM
I hold more than one job	1 20%*	1,333 20%
My main job is full-time (>= 30 hours per week)	5 100%**	5,464 84%*

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

22. How related is your main job to your program?:	27.0301	SYSTEM
Very Related	- 0%	3,006 45%
Somewhat Related	3 60%	1,865 28%
Not Very Related	1 20%	810 12%
Not At All Related	1 20%	1,020 15%
Total	5 100%	6,701 100%



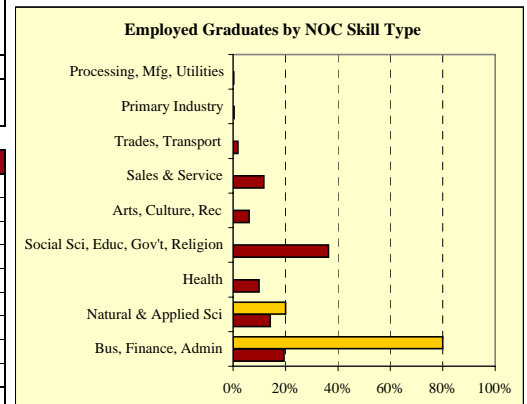
23. "Under-employment" Assessment:	27.0301	SYSTEM
Job is very or somewhat related to program	3 60%	4,871 73%
NOC Skill Level = A (University Education)	1 20%	3,972 60%

\* of total valid responses

24. Gross Annual Income from Main Job:*	27.0301	SYSTEM
Less than \$20,000	- 0%	552 9%
\$20,000 to \$39,999	3 60%	2,009 35%
\$40,000 to \$59,999	1 20%	2,290 39%
\$60,000 to \$79,999	1 20%	714 12%
\$80,000 to \$99,999	- 0%	171 3%
\$100,000 and Above	- 0%	85 1%
Total	5 100%	5,821 100%
Median Annual Income (full-time)	\$28,000	\$43,000
Average Annual Income (full-time)	\$40,400	\$46,444

\* where data provided

25. NOC Skill Type of Main Job:	27.0301	SYSTEM
Business, Finance and Administration	4 80%	1,274 19%
Natural and Applied Sciences and Related	1 20%	927 14%
Health	- 0%	650 10%
Social Sciences, Educ., Gov't Services, Religion	- 0%	2,389 36%
Arts, Culture, Recreation and Sport	- 0%	404 6%
Sales and Service	- 0%	772 12%
Trades, Transport and Eqp. Operators and Related	- 0%	117 2%
Unique to the Primary Industry	- 0%	21 0%
Unique to Processing, Manufacturing and Utilities	- 0%	18 0%
Total	5 100%	6,572 100%



Detailed Summary of Survey Results

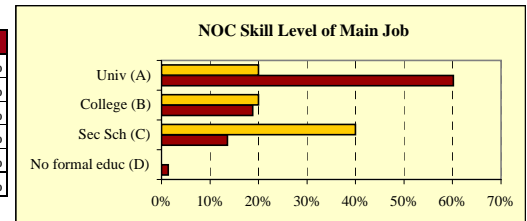
All Institutions

6 Digit CIP: 27.0301: Applied Mathematics, General

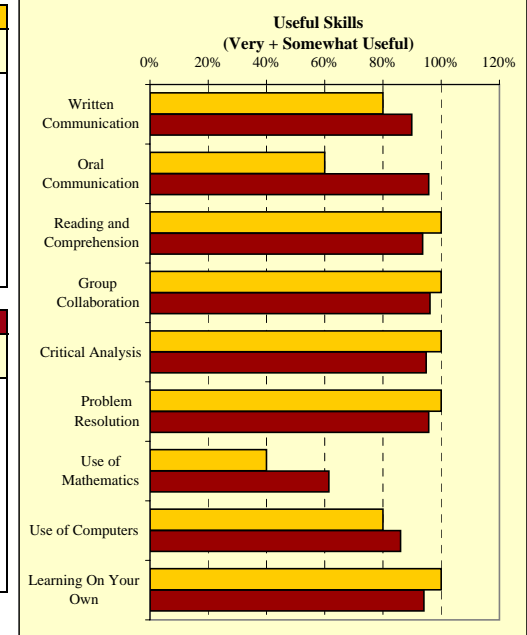
SYSTEM  
27.0301

EMPLOYMENT, continued

26. NOC Skill Level of Main Job:	27.0301	SYSTEM
A. University education	1 20%	3,972 60%
B. College education/trade apprenticeship	1 20%	1,240 19%
C. Secondary school + job-specific training	2 40%	899 14%
D. No formal education	- 0%	92 1%
No skill level assigned (management)	1 20%	397 6%
Total	5 100%	6,600 100%



27a. How useful are the following skills and abilities in doing your main job?	27.0301					#
	Very Useful	Somewhat Useful	Not Very Useful	Not at all Useful	Resp.	
Written Communication	20%	60%	20%	0%	5	
Oral Communication	60%	0%	40%	0%	5	
Reading and Comprehension	20%	80%	0%	0%	5	
Group Collaboration	60%	40%	0%	0%	5	
Critical Analysis	80%	20%	0%	0%	5	
Problem Resolution	60%	40%	0%	0%	5	
Use of Mathematics Appropriate to Field	40%	0%	60%	0%	5	
Use of Computers Appropriate to Field	60%	20%	20%	0%	5	
Learning On Your Own	100%	0%	0%	0%	5	



27b. How useful are the following skills and abilities in doing your main job?	SYSTEM					#
	Very Useful	Somewhat Useful	Not Very Useful	Not at all Useful	Resp.	
Written Communication	67%	23%	6%	4%	6,696	
Oral Communication	77%	19%	3%	1%	6,696	
Reading and Comprehension	70%	23%	4%	2%	6,696	
Group Collaboration	79%	17%	3%	1%	6,699	
Critical Analysis	74%	20%	3%	2%	6,698	
Problem Resolution	75%	20%	3%	1%	6,693	
Use of Mathematics Appropriate to Field	25%	36%	22%	17%	6,675	
Use of Computers Appropriate to Field	56%	30%	8%	6%	6,688	
Learning On Your Own	68%	26%	4%	2%	6,690	

28a. Top 10 Full-time Occupations of 27.0301 Graduates:	27.0301	
NOC Skill Level Description	% Employed FT in this Occ.**	Median FT Salary
* * * * *		
* * * * *		
* * * * *		
* * * * *		
* * * * *		
* * * * *		
* * * * *		
* * * * *		
* * * * *		
* * * * *		

\*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 All Institutions:	SYSTEM	
NOC Skill Level Description	% Employed FT in this Occ.**	Median FT Salary
4141 A Secondary School Teachers	8%	\$42,000
4142 A Elem & Kindergarten Teacher	7%	\$40,000
3152 A Registered Nurses	5%	\$56,330
1111 A Financial Auditors & Acnts	3%	\$42,500
2174 A Computer Programmers/Interactive Media Developers	2%	\$50,000
5124 A Occhs in Public Relations & Comm	2%	\$42,000
4112 A Lawyers & Quebec Notaries	2%	\$70,000
1232 B Loan Officers	1%	\$40,000
2173 A Software Engineers	1%	\$56,000
4152 A Social Workers	1%	\$48,000

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

Detailed Summary of Survey Results

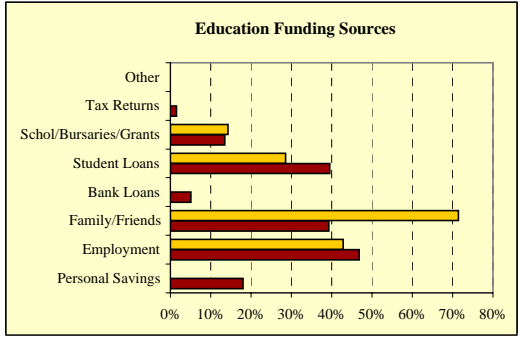
All Institutions

6 Digit CIP: 27.0301: Applied Mathematics, General

SYSTEM  
27.0301

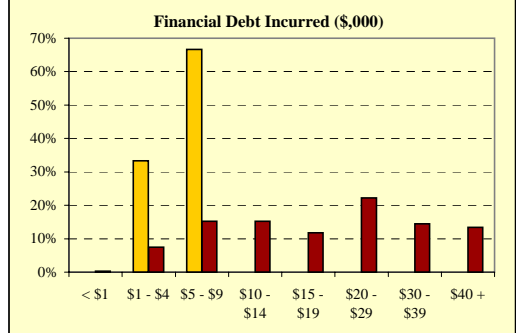
EDUCATION FINANCING

29. Education Funding Sources (2 sources per respondent):	27.0301	SYSTEM
Personal Savings	- 0%*	1,444 18%*
Employment	3 43%*	3,752 47%*
Family/Friends	5 71%*	3,146 39%*
Bank Loans	- 0%*	409 5%*
Student Loans	2 29%*	3,168 40%*
Scholarships/Bursaries/Grants	1 14%*	1,082 14%*
Tax Returns	- 0%*	120 1%*
Other	- 0%*	- 0%*
Total Respondents	7	8,009

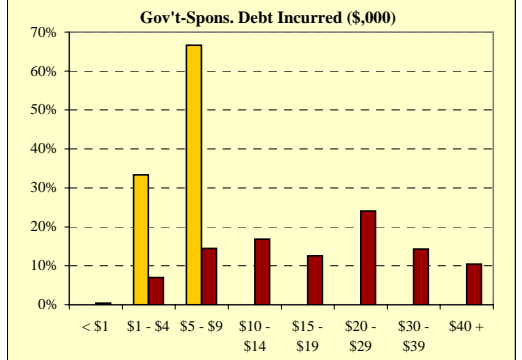


30. Financial Debt Incurred to Finance Univ. Education:	27.0301	SYSTEM
Incurred any form of financial debt	3 43%*	3,818 48%
Incurred government-sponsored student loan debt	3 43%*	3,190 40%

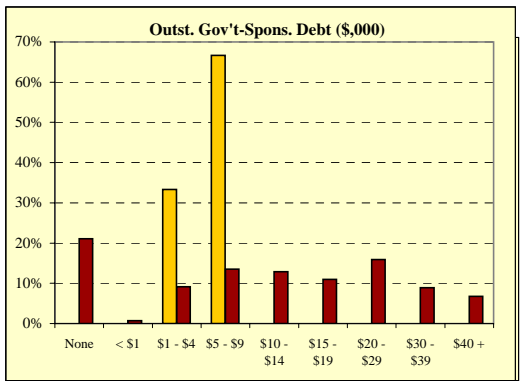
31. Financial Debt Amount:*	27.0301	SYSTEM
< \$1,000	- 0%	12 0%
\$1,000 to \$4,999	1 33%	284 7%
\$5,000 to \$9,999	2 67%	582 15%
\$10,000 to \$14,999	- 0%	581 15%
\$15,000 to \$19,999	- 0%	449 12%
\$20,000 to \$29,999	- 0%	847 22%
\$30,000 to \$39,999	- 0%	552 14%
\$40,000 or More	- 0%	511 13%
Total	3 100%	3,818 100%
Median Financial Debt	\$6,000	\$20,000



32. Government-Sponsored Student Loan Debt Amount:*	27.0301	SYSTEM
< \$1,000	- 0%	14 0%
\$1,000 to \$4,999	1 33%	222 7%
\$5,000 to \$9,999	2 67%	460 14%
\$10,000 to \$14,999	- 0%	537 17%
\$15,000 to \$19,999	- 0%	402 13%
\$20,000 to \$29,999	- 0%	768 24%
\$30,000 to \$39,999	- 0%	455 14%
\$40,000 or More	- 0%	332 10%
Total	3 100%	3,190 100%
Median Gov't-Sponsored Student Loan Debt	\$6,000	\$18,000



33. Outstanding Gov't-Sponsored Loan Debt Amount:*	27.0301	SYSTEM
None - Loan repaid in full	- 0%	644 21%
< \$1,000	- 0%	22 1%
\$1,000 to \$4,999	1 33%	280 9%
\$5,000 to \$9,999	2 67%	414 14%
\$10,000 to \$14,999	- 0%	395 13%
\$15,000 to \$19,999	- 0%	336 11%
\$20,000 to \$29,999	- 0%	487 16%
\$30,000 to \$39,999	- 0%	273 9%
\$40,000 or More	- 0%	207 7%
Total	3 100%	3,058 100%
Median Gov't-Sponsored Loan Debt Outstanding	\$6,000	\$11,000



Detailed Summary of Survey Results

All Institutions

6 Digit CIP: 27.0301: Applied Mathematics, General

SYSTEM  
27.0301

SPECIAL SECTION ON INTERNATIONAL EDUCATION

42. In your employment since graduation, how important has it been for you to understand the following international skills/issues?

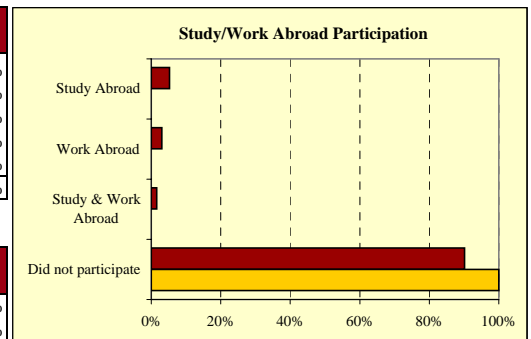
International Skill	27.0301					Total Resp.	SYSTEM					Total Resp.
	Very Important	Important	Not Very Important	Not at all Important	Not Applicable		Very Important	Important	Not Very Important	Not at all Important	Not Applicable	
Speak a second language	29%	14%	29%	14%	14%	7	20%	22%	28%	28%	2%	7966
International Business Practices	33%	67%	0%	0%	0%	6	13%	27%	32%	28%	0%	7817
Global Issues	33%	50%	17%	0%	0%	6	26%	38%	22%	14%	0%	7835
Interconnections between local and global issues	50%	50%	0%	0%	0%	6	29%	41%	18%	12%	0%	7835
Knowledge and traditions of other countries and cultures	50%	33%	0%	17%	0%	6	40%	35%	16%	10%	0%	7840

43. How helpful was the institution in preparing you with the following international skills?

International Skill	27.0301					Total Resp.	SYSTEM					Total Resp.
	Very Helpful	Helpful	Not Very Helpful	Not at all Helpful	Not Applicable		Very Helpful	Helpful	Not Very Helpful	Not at all Helpful	Not Applicable	
Speak a second language	14%	29%	0%	14%	43%	7	5%	12%	18%	18%	48%	7985
International Business Practices	0%	14%	29%	57%	0%	7	6%	23%	34%	37%	0%	7838
Global Issues	0%	57%	14%	29%	0%	7	20%	47%	20%	13%	0%	7946
Interconnections between local and global issues	0%	43%	29%	29%	0%	7	19%	47%	22%	12%	0%	7930
Knowledge and traditions of other countries and cultures	14%	57%	0%	29%	0%	7	20%	46%	22%	11%	0%	7942

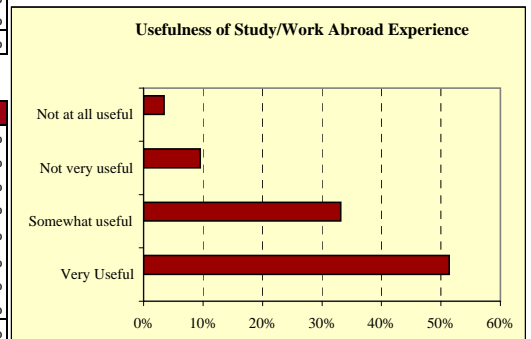
44. Did you study or work abroad during your program?

	27.0301	SYSTEM		
Yes:				
Study Abroad	-	0%	788	10%
Work Abroad	-	0%	420	5%
Study and work abroad	-	0%	243	3%
No	7	100%	7,180	90%
Total	7	100%	7,968	100%



45. Usefulness of study or work abroad experiences to current job:\*

	27.0301	SYSTEM		
Very Useful	N/A	405	51%	
Somewhat useful	N/A	261	33%	
Not very useful	N/A	75	10%	
Not at all useful	N/A	27	3%	
Total	-	788	100%	



46. Reasons why you did not study or work abroad:

	27.0301	SYSTEM		
Not aware these opportunities exist	-	0%	705	10%
Financial reasons	1	14%	1,135	16%
Extended degree completion time	1	14%	341	5%
Personal reasons (i.e. employment, family)	-	0%	1,394	20%
No opportunities/Limited opportunities	-	0%	897	13%
Not interested/ relevant/ required/ attractive	3	43%	1,747	25%
Conflicts with schooling (course load too heavy)	2	29%	569	8%
Other	-	0%	257	4%
Total	7	100%	7,045	100%