

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

Detailed Summary of Survey Results

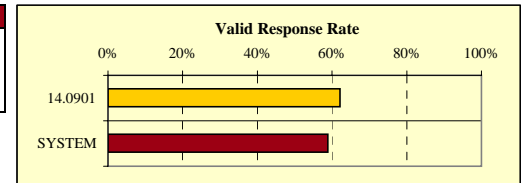
All Institutions

6 Digit CIP: 14.0901: Computer Engineering

SYSTEM
14.0901

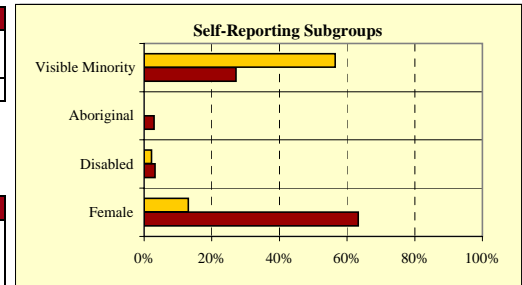
RESPONSE RATE

1. Survey Response Rate:	14.0901	SYSTEM
2004 Baccalaureate Graduates Survey Cohort	86	15,605
Net Frame	74	13,595
Survey Respondents and Valid Response Rate	46	8,009
	62%	59%



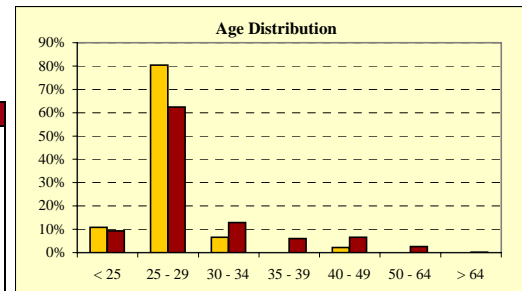
DEMOGRAPHIC INFORMATION

2. Gender:	14.0901	SYSTEM
Male	40	2,941
Female	6	5,067
Total	46	8,008
	100%	100%

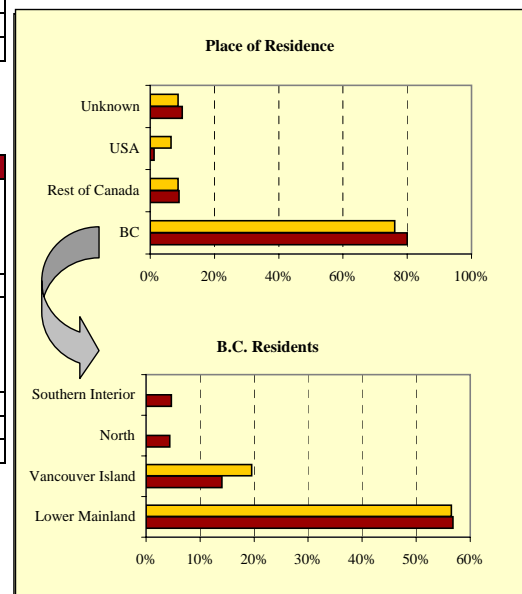


3. Self-Reporting Subgroups:	14.0901	SYSTEM
Disabled	1	260
Aboriginal	-	232
Visible Minority	26	2,172
	2%	3%
	0%	3%
	57%	27%

4. Age (at time of survey):	14.0901	SYSTEM
< 25	5	748
25 to 29	37	4,997
30 to 34	3	1,036
35 to 39	-	478
40 to 49	1	528
50 to 64	-	213
> 64	-	9
Unknown	-	-
Total	46	8,009
Mean Age:	26.9	29.0



5. Place of Residence (at time of survey):	14.0901	SYSTEM
BC - Lower Mainland	26	4,549
BC - Vancouver Island	9	1,124
BC - North	-	353
BC - Southern Interior	-	376
BC Subtotal	35	6,402
Canada - Alberta	1	310
Canada - Ontario	3	240
Canada - Other	-	164
U.S.A.	3	94
Non-BC Subtotal	7	808
Unknown	4	799
Total	46	8,009
	100%	100%



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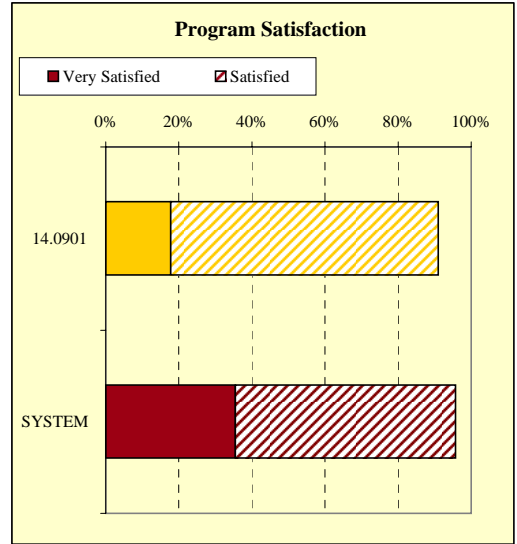
■ SYSTEM
■ 14.0901

EDUCATION EVALUATION AND SKILL DEVELOPMENT

6. Usefulness of Knowledge, Skills, and Abilities Acquired during Program in Work:	14.0901		SYSTEM	
Very Useful	13	30%	2,934	44%
Somewhat Useful	23	53%	2,942	44%
Not Very Useful	6	14%	565	8%
Not at All Useful	1	2%	247	4%

7. Usefulness of Knowledge, Skills, and Abilities Acquired during Program in Day-to-day Life:	14.0901		SYSTEM	
Very Useful	5	12%	2,013	30%
Somewhat Useful	19	44%	3,611	54%
Not Very Useful	14	33%	890	13%
Not at All Useful	5	12%	179	3%

8. Program Satisfaction:	14.0901		SYSTEM	
Very Satisfied	8	18%	2,832	35%
Satisfied	33	73%	4,816	60%
Dissatisfied	3	7%	288	4%
Very Dissatisfied	1	2%	51	1%
Total	45	100%	7,987	100%



9. Would you select the same program again?	14.0901		SYSTEM	
Yes	30	70%	6,053	79%
No, because . . . (multiple response question)	13		1,565	
. . . interests have changed	6	32%*	468	17%*
. . . courses were not practical	3	16%*	597	22%*
. . . little or no career opportunities	1	5%*	505	18%*
. . . other	9	47%*	1,197	43%*

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

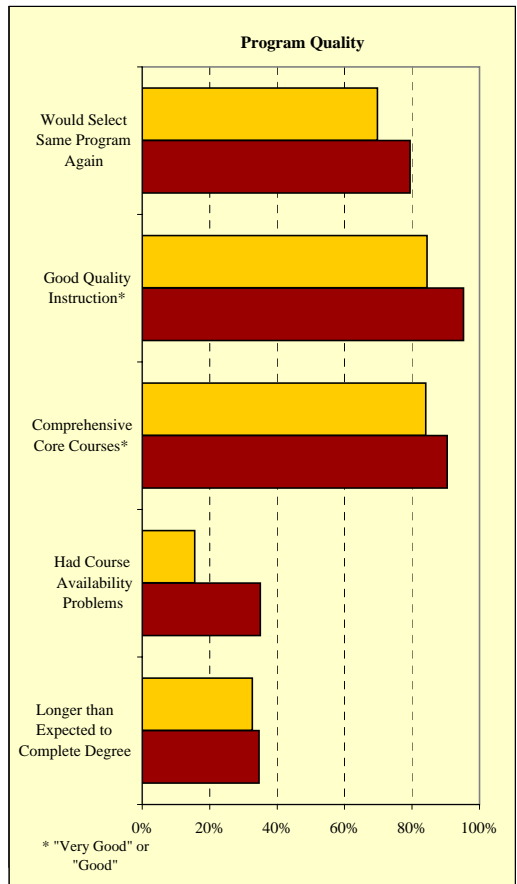
10. Quality of Instruction:	14.0901		SYSTEM	
Very Good	7	16%	2,490	31%
Good	31	69%	5,096	64%
Poor	5	11%	348	4%
Very Poor	2	4%	28	0%
Total	45	100%	7,962	100%

11. Comprehensiveness of Core Courses:	14.0901		SYSTEM	
Very Good	7	16%	2,045	26%
Good	30	68%	5,069	64%
Poor	6	14%	704	9%
Very Poor	1	2%	53	1%
Total	44	100%	7,871	100%

12. Course Availability:	14.0901		SYSTEM	
Encountered course availability problems	7	16%	2,753	35%

13. Degree Completion:	14.0901		SYSTEM	
Took longer than expected to complete degree	15	33%	2,770	35%
Top 4 reasons for prolonged degree completion (multiple response question):				
Personal or family reasons	-	0%*	401	8%*
Financial reasons / work	-	0%*	468	9%*
Change of major/program/specialization	2	10%*	403	8%*
Involvement in co-op program extended completion time	9	45%*	451	9%*
Other reason(s)	9	45%*	3,253	65%*

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



Detailed Summary of Survey Results

All Institutions

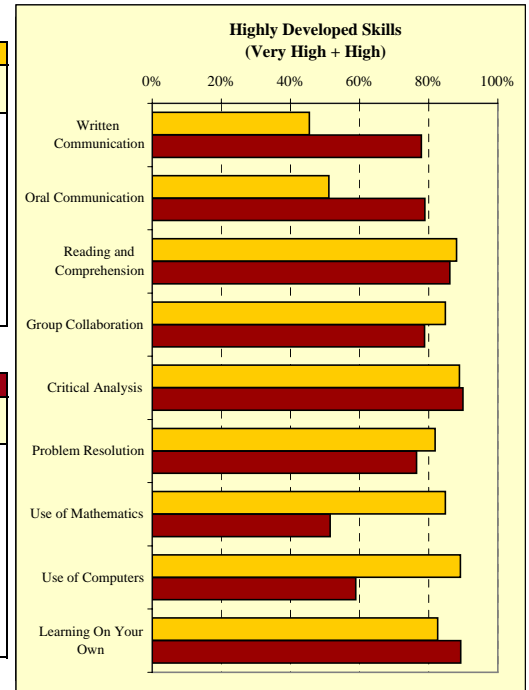
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SYSTEM
14.0901

SKILL DEVELOPMENT

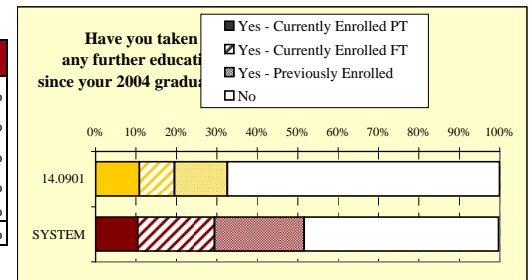
14a. To what degree did program help you develop the following skills?	14.0901					# Resp.
	Very High	High	Low	Very Low		
	Written Communication	14%	32%	52%	2%	
Oral Communication	9%	42%	47%	2%	45	
Reading and Comprehension	33%	55%	12%	0%	42	
Group Collaboration	33%	52%	9%	7%	46	
Critical Analysis	60%	29%	7%	4%	45	
Problem Resolution	32%	50%	16%	2%	44	
Use of Mathematics Appropriate to Field	48%	37%	11%	4%	46	
Use of Computers Appropriate to Field	43%	46%	7%	4%	46	
Learning On Your Own	48%	35%	13%	4%	46	

14b. To what degree did program help you develop the following skills?	SYSTEM					# Resp.
	Very High	High	Low	Very Low		
	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	

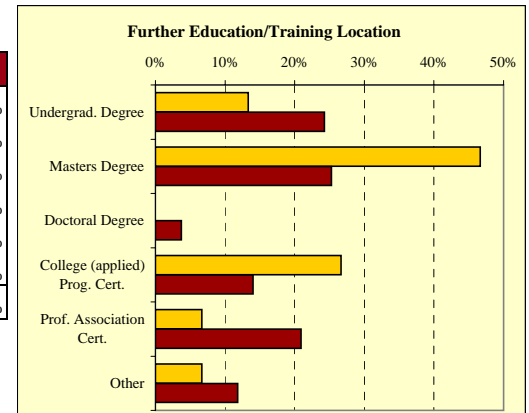


FURTHER EDUCATION

15. Took further education since 2004 graduation	14.0901	SYSTEM		
Yes:	15	33%	4,158	52%
Not currently enrolled	6	13%	1,779	22%
Currently enrolled full-time	4	9%	1,520	19%
Currently enrolled part-time	5	11%	838	10%
No	31	67%	3,851	48%
Total	46	100%	8,009	100%



16. Type of Formal Post-Secondary Education	14.0901	SYSTEM		
Undergraduate Degree	2	13%	995	24%
Masters Degree	7	47%	1,036	25%
Doctoral Degree	-	0%	152	4%
College (applied) Program Certification	4	27%	575	14%
Professional Association Certification	1	7%	858	21%
Other	1	7%	485	12%
Total Respondents	15	100%	4,101	100%



Detailed Summary of Survey Results

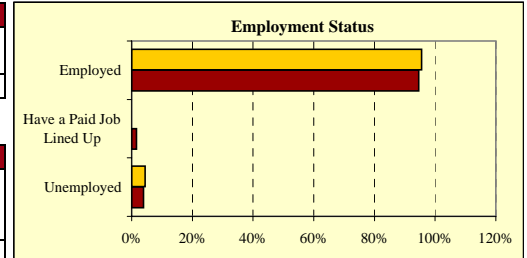
All Institutions

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■ SYSTEM
■ 14.0901

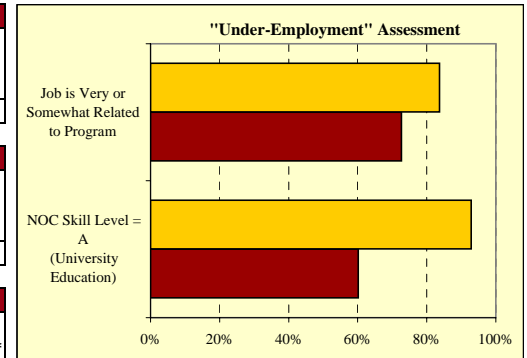
EMPLOYMENT

17. Labour Force Status:	14.0901	SYSTEM		
In Labour Force (working or seeking work)	45	98%	7,092	89%
Not in Labour Force	1	2%	905	11%
Grand Total	46	100%	7,997	100%



18. Employment Status of those IN Labour Force:	14.0901	SYSTEM		
Employed	43	96%	6,707	95%
Have a Paid Job Lined Up	-	0%	109	2%
Unemployed	2	4%	276	4%
Total Labour Force	45	100%	7,092	100%

19. Status of Graduates NOT in Labour Force:	14.0901	SYSTEM		
Attending School FT	1	100%	677	75%
Attending School PT	-	0%	32	4%
Other	-	0%	196	22%
Total NOT in Labour Force	1	100%	905	100%

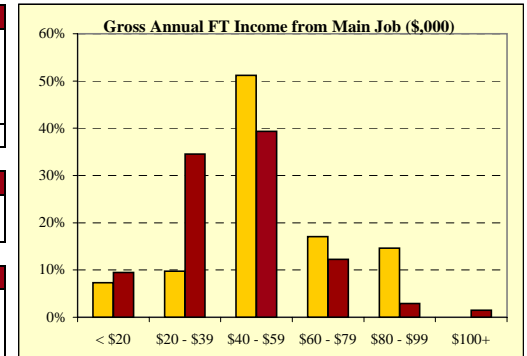


20. Employment Type:	14.0901	SYSTEM		
Paid worker	43	100%	6,048	90%
Self-employed	-	0%	356	5%
Both a paid worker and self-employed	-	0%	300	4%
Total Employed	43	100%	6,707	100%

21. Job Characteristics:	14.0901	SYSTEM		
I hold more than one job	3	7%*	1,333	20%
My main job is full-time (>= 30 hours per week)	40	95%**	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?:	14.0901	SYSTEM		
Very Related	16	37%	3,006	45%
Somewhat Related	20	47%	1,865	28%
Not Very Related	5	12%	810	12%
Not At All Related	2	5%	1,020	15%
Total	43	100%	6,701	100%



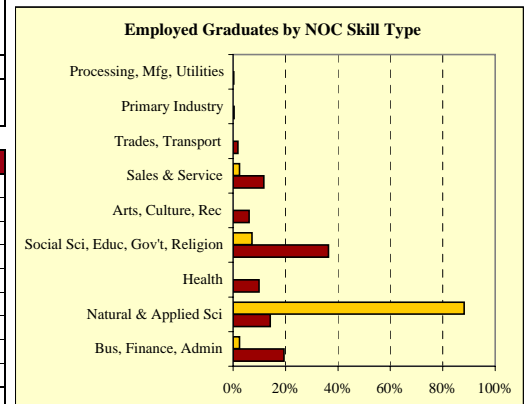
23. "Under-employment" Assessment:	14.0901	SYSTEM		
Job is very or somewhat related to program	36	84%	4,871	73%
NOC Skill Level = A (University Education)	39	93%	3,972	60%

* of total valid responses

24. Gross Annual Income from Main Job:*	14.0901	SYSTEM		
Less than \$20,000	3	7%	552	9%
\$20,000 to \$39,999	4	10%	2,009	35%
\$40,000 to \$59,999	21	51%	2,290	39%
\$60,000 to \$79,999	7	17%	714	12%
\$80,000 to \$99,999	6	15%	171	3%
\$100,000 and Above	-	0%	85	1%
Total	41	100%	5,821	100%
Median Annual Income (full-time)	\$51,000	\$43,000		
Average Annual Income (full-time)	\$54,790	\$46,444		

* where data provided

25. NOC Skill Type of Main Job:	14.0901	SYSTEM		
Business, Finance and Administration	1	2%	1,274	19%
Natural and Applied Sciences and Related	37	88%	927	14%
Health	-	0%	650	10%
Social Sciences, Educ., Gov't Services, Religion	3	7%	2,389	36%
Arts, Culture, Recreation and Sport	-	0%	404	6%
Sales and Service	1	2%	772	12%
Trades, Transport and Equip. Operators and Related	-	0%	117	2%
Unique to the Primary Industry	-	0%	21	0%
Unique to Processing, Manufacturing and Utilities	-	0%	18	0%
Total	42	100%	6,572	100%



Detailed Summary of Survey Results

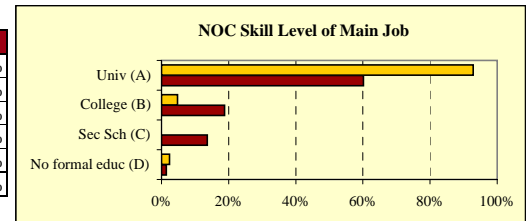
All Institutions

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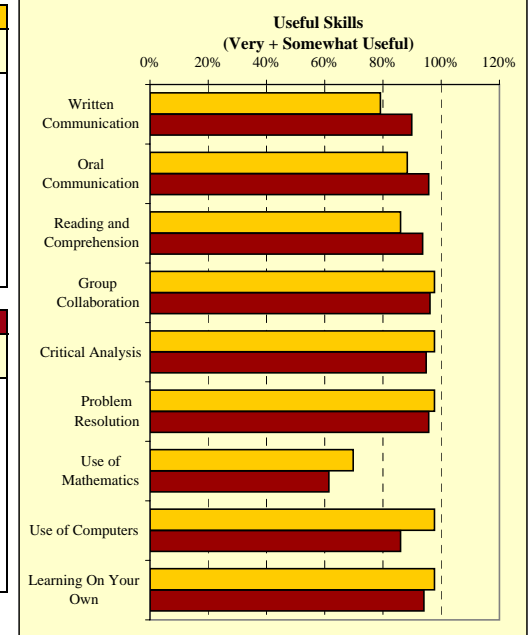
SYSTEM
14.0901

EMPLOYMENT, continued

26. NOC Skill Level of Main Job:	14.0901		SYSTEM	
A. University education	39	93%	3,972	60%
B. College education/trade apprenticeship	2	5%	1,240	19%
C. Secondary school + job-specific training	-	0%	899	14%
D. No formal education	1	2%	92	1%
No skill level assigned (management)	-	0%	397	6%
Total	42	100%	6,600	100%



27a. How useful are the following skills and abilities in doing your main job?	14.0901					#
	Very Useful	Somewhat Useful	Not Very Useful	Not at all Useful		Resp.
Written Communication	49%	30%	19%	2%		43
Oral Communication	53%	35%	12%	0%		43
Reading and Comprehension	53%	33%	12%	2%		43
Group Collaboration	70%	28%	2%	0%		43
Critical Analysis	79%	19%	2%	0%		43
Problem Resolution	70%	28%	2%	0%		43
Use of Mathematics Appropriate to Field	28%	42%	26%	5%		43
Use of Computers Appropriate to Field	84%	14%	0%	2%		43
Learning On Your Own	70%	28%	0%	2%		43



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 14.0901 Graduates:			14.0901	
NOC	NOC Skill Level Description		% Employed FT in this Occ.**	Median FT Salary
2173	A Software Engineers		40%	\$53,000
2174	A Computer Programmers/Interactive Media Developers		23%	\$52,300
2171	A Information Systems Analysts and Consultants		7%	\$51,000
2147	A Computer Engineers		7%	\$48,000
2133	A Electrical & Electronics Engineers		5%	\$56,000
*				
*				
*				
*				
*				

*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	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

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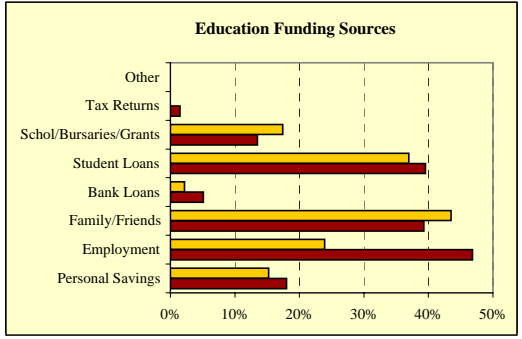
All Institutions

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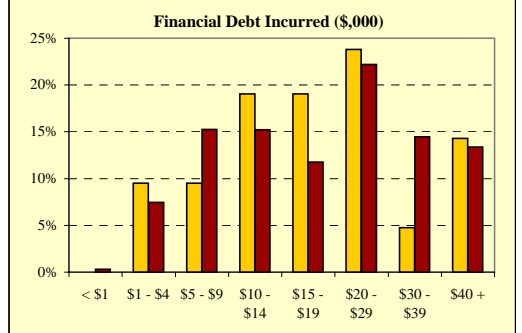
EDUCATION FINANCING

29. Education Funding Sources (2 sources per respondent):	14.0901	SYSTEM
Personal Savings	7 15%*	1,444 18%*
Employment	11 24%*	3,752 47%*
Family/Friends	20 43%*	3,146 39%*
Bank Loans	1 2%*	409 5%*
Student Loans	17 37%*	3,168 40%*
Scholarships/Bursaries/Grants	8 17%*	1,082 14%*
Tax Returns	- 0%*	120 1%*
Other	- 0%*	- 0%*
Total Respondents	46	8,009

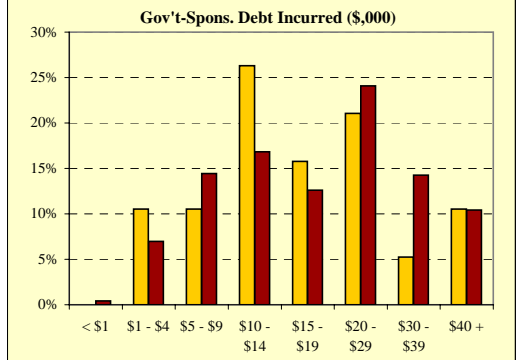


30. Financial Debt Incurred to Finance Univ. Education:	14.0901	SYSTEM
Incurred any form of financial debt	21 46%*	3,818 48%
Incurred government-sponsored student loan debt	19 41%*	3,190 40%

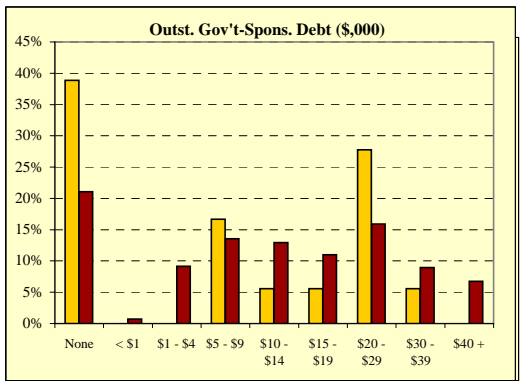
31. Financial Debt Amount:*	14.0901	SYSTEM
< \$1,000	- 0%	12 0%
\$1,000 to \$4,999	2 10%	284 7%
\$5,000 to \$9,999	2 10%	582 15%
\$10,000 to \$14,999	4 19%	581 15%
\$15,000 to \$19,999	4 19%	449 12%
\$20,000 to \$29,999	5 24%	847 22%
\$30,000 to \$39,999	1 5%	552 14%
\$40,000 or More	3 14%	511 13%
Total	21 100%	3,818 100%
Median Financial Debt	\$16,000	\$20,000



32. Government-Sponsored Student Loan Debt Amount:*	14.0901	SYSTEM
< \$1,000	- 0%	14 0%
\$1,000 to \$4,999	2 11%	222 7%
\$5,000 to \$9,999	2 11%	460 14%
\$10,000 to \$14,999	5 26%	537 17%
\$15,000 to \$19,999	3 16%	402 13%
\$20,000 to \$29,999	4 21%	768 24%
\$30,000 to \$39,999	1 5%	455 14%
\$40,000 or More	2 11%	332 10%
Total	19 100%	3,190 100%
Median Gov't-Sponsored Student Loan Debt	\$15,000	\$18,000



33. Outstanding Gov't-Sponsored Loan Debt Amount:*	14.0901	SYSTEM
None - Loan repaid in full	7 39%	644 21%
< \$1,000	- 0%	22 1%
\$1,000 to \$4,999	- 0%	280 9%
\$5,000 to \$9,999	3 17%	414 14%
\$10,000 to \$14,999	1 6%	395 13%
\$15,000 to \$19,999	1 6%	336 11%
\$20,000 to \$29,999	5 28%	487 16%
\$30,000 to \$39,999	1 6%	273 9%
\$40,000 or More	- 0%	207 7%
Total	18 100%	3,058 100%
Median Gov't-Sponsored Loan Debt Outstanding	\$8,500	\$11,000



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

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■ SYSTEM
■ 14.0901

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?

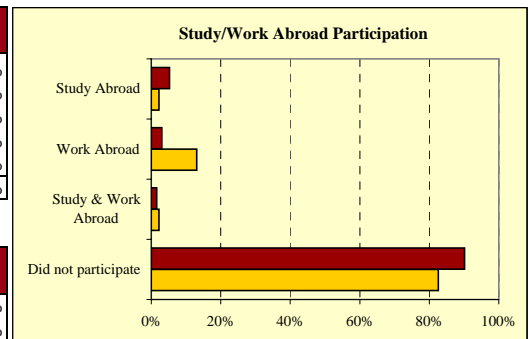
International Skill	14.0901						SYSTEM					
	Very Important	Important	Not Very Important	Not at all Important	Not Applicable	Total Resp.	Very Important	Important	Not Very Important	Not at all Important	Not Applicable	Total Resp.
Speak a second language	13%	11%	24%	51%	0%	45	20%	22%	28%	28%	2%	7966
International Business Practices	17%	37%	22%	24%	0%	46	13%	27%	32%	28%	0%	7817
Global Issues	9%	37%	33%	22%	0%	46	26%	38%	22%	14%	0%	7835
Interconnections between local and global issues	17%	30%	35%	17%	0%	46	29%	41%	18%	12%	0%	7835
Knowledge and traditions of other countries and cultures	11%	39%	30%	20%	0%	46	40%	35%	16%	10%	0%	7840

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

International Skill	14.0901						SYSTEM					
	Very Helpful	Helpful	Not Very Helpful	Not at all Helpful	Not Applicable	Total Resp.	Very Helpful	Helpful	Not Very Helpful	Not at all Helpful	Not Applicable	Total Resp.
Speak a second language	2%	2%	9%	26%	61%	46	5%	12%	18%	18%	48%	7985
International Business Practices	4%	9%	59%	28%	0%	46	6%	23%	34%	37%	0%	7838
Global Issues	7%	17%	48%	28%	0%	46	20%	47%	20%	13%	0%	7946
Interconnections between local and global issues	7%	22%	48%	24%	0%	46	19%	47%	22%	12%	0%	7930
Knowledge and traditions of other countries and cultures	7%	22%	52%	20%	0%	46	20%	46%	22%	11%	0%	7942

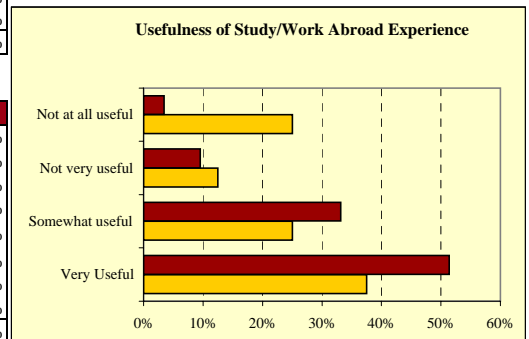
44. Did you study or work abroad during your program?

	14.0901		SYSTEM	
Yes:	8	17%	788	10%
Study Abroad	1	2%	420	5%
Work Abroad	6	13%	243	3%
Study and work abroad	1	2%	125	2%
No	38	83%	7,180	90%
Total	46	100%	7,968	100%



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

	14.0901		SYSTEM	
Very Useful	3	38%	405	51%
Somewhat useful	2	25%	261	33%
Not very useful	1	13%	75	10%
Not at all useful	2	25%	27	3%
Total	8	100%	788	100%



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

	14.0901		SYSTEM	
Not aware these opportunities exist	3	8%	705	10%
Financial reasons	3	8%	1,135	16%
Extended degree completion time	2	5%	341	5%
Personal reasons (i.e. employment, family)	4	11%	1,394	20%
No opportunities/Limited opportunities	8	21%	897	13%
Not interested/ relevant/ required/ attractive	13	34%	1,747	25%
Conflicts with schooling (course load too heavy)	3	8%	569	8%
Other	2	5%	257	4%
Total	38	100%	7,045	100%