

B.C. University Student Outcomes 2001 Survey of 1996 Baccalaureate Graduates

Detailed Summary of Survey Results

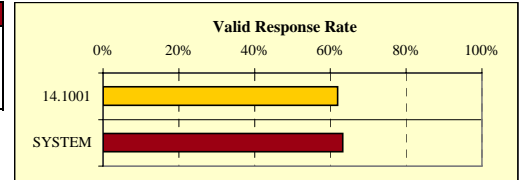
All Institutions

6 Digit CIP: 14.1001: Electrical, Electronics & Communications Engineering

■ SYSTEM
■ 14.1001

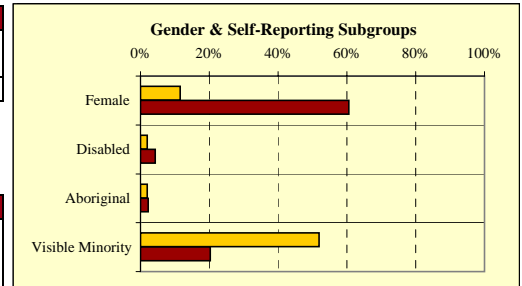
RESPONSE RATE

1. Survey Response Rate:	14.1001	SYSTEM	
Baccalaureate Graduates Survey Cohort	110	9,531	
Net Frame	84	8,613	
Survey Respondents and Valid Response Rate	52	62%	5,449 63%



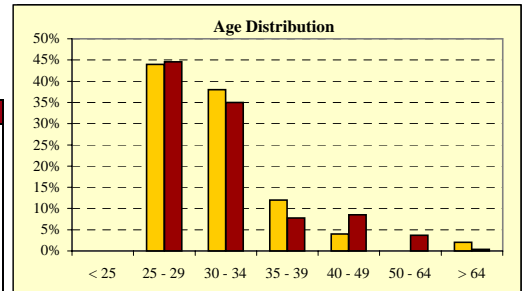
DEMOGRAPHIC INFORMATION

2. Gender:	14.1001	SYSTEM	
Male	46	88%	2,147 39%
Female	6	12%	3,302 61%
Total	52	100%	5,449 100%

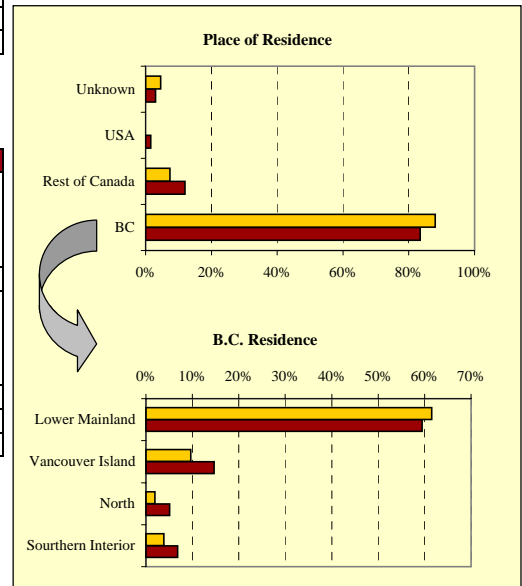


3. Self-Reporting Subgroups:	14.1001	SYSTEM	
Disabled	1	2%	234 4%
Aboriginal	1	2%	124 2%
Visible Minority	27	52%	1,104 20%

4. Age (at time of survey):	14.1001	SYSTEM	
< 25	-	0%	2 0%
25 to 29	22	44%	2,413 45%
30 to 34	19	38%	1,895 35%
35 to 39	6	12%	421 8%
40 to 49	2	4%	461 9%
50 to 64	-	0%	199 4%
> 64	1	2%	19 0%
Unknown	2	4%	39 1%
Total	50	100%	5,410 100%
Mean Age:	32.2	32.4	

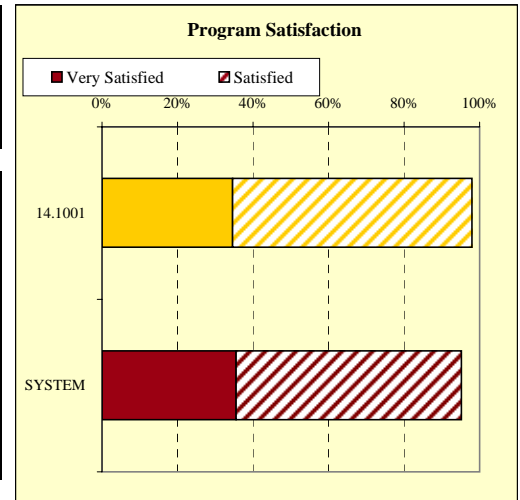


5. Place of Residence (at time of survey):	14.1001	SYSTEM	
BC - Lower Mainland	32	62%	3,241 59%
BC - Vancouver Island	5	10%	800 15%
BC - North	1	2%	276 5%
BC - Southern Interior	2	4%	372 7%
B.C. Subtotal	40	77%	4,689 86%
Canada - Alberta	1	2%	193 4%
Canada - Ontario	4	8%	212 4%
Canada - Other	-	0%	91 2%
U.S.A.	7	13%	146 3%
Non-B.C. Subtotal	12	23%	642 12%
Unknown	-	0%	118 2%
Total	52	100%	5,449 100%



EDUCATION SATISFACTION & PROGRAM EVALUATION

6. Program Satisfaction:	14.1001	SYSTEM
Very Satisfied	18 35%	1,932 36%
Satisfied	33 63%	3,246 60%
Dissatisfied	1 2%	228 4%
Very Dissatisfied	- 0%	30 1%
Total	52 100%	5,436 100%

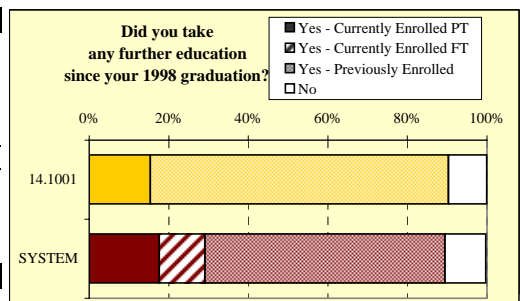


7. Would you select the same program again?	14.1001	SYSTEM
Yes	44 86%	3,866 73%
No, because . . . (multiple response question)	7	1,420
. . . not enough course variety offered	- 0%*	23 1%*
. . . skills acquired were not very useful	1 11%*	136 7%*
. . . courses were poorly taught	- 0%*	29 2%*
. . . program was too general	- 0%*	149 8%*
. . . courses were not practical	1 11%*	242 13%*
. . . interests have changed	2 22%*	356 20%*
. . . little or no career opportunities	1 11%*	511 28%*
. . . disagree with grading system	- 0%*	2 0%*
. . . disliked institution	- 0%*	6 0%*
. . . other	4 44%*	368 20%*

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

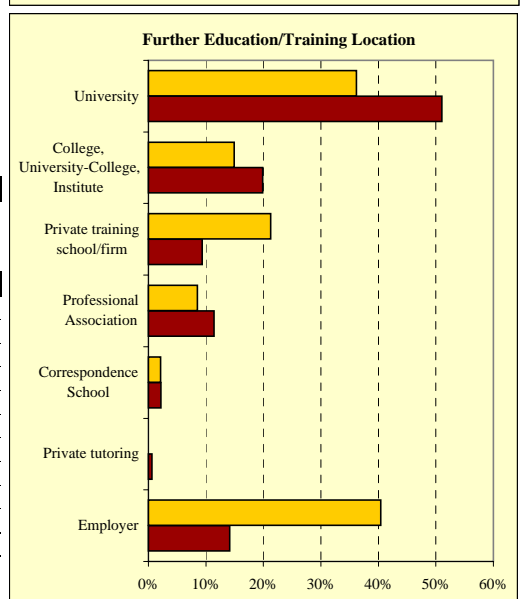
FURTHER EDUCATION

8. Took further education since 1996 graduation?	14.1001	SYSTEM
Yes:	47 90%	4,885 90%
Not currently enrolled	39 75%	3,285 60%
Currently enrolled full-time	- 0%	628 12%
Currently enrolled part-time	8 15%	961 18%
No	5 10%	564 10%
Total	52 100%	5,449 100%



9. Further education/training location (multiple resp.):*	14.1001	SYSTEM
University	17 36%*	2,494 51%*
College, University-College, Institute	7 15%*	972 20%*
Private training school/firm	10 21%*	457 9%*
Professional Association	4 9%*	557 11%*
Correspondence School	1 2%*	105 2%*
Private Tutoring	- 0%*	29 1%*
Employer	19 40%*	691 14%*
Other	2 4%*	163 3%*
Total Respondents	47	4,885

* Percent of respondents



10. Main Reason for Further Education:	14.1001	SYSTEM
Pursue another Bachelor degree	- 0%	315 6%
Pursue Masters studies	8 14%	566 10%
Pursue Doctoral studies	- 0%	138 3%
Career / job / employment related	41 69%	3,421 63%
Challenge myself intellectually	5 8%	446 8%
To please parents/family	- 0%	3 0%
Did not have a primary/main reason for enrolling	1 2%	13 0%
Required by employer	2 3%	173 3%
Other	2 3%	382 7%
Total	59 100%	5,457 100%

Detailed Summary of Survey Results

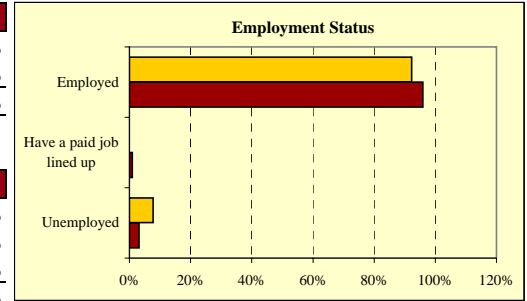
All Institutions

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■ 14.1001

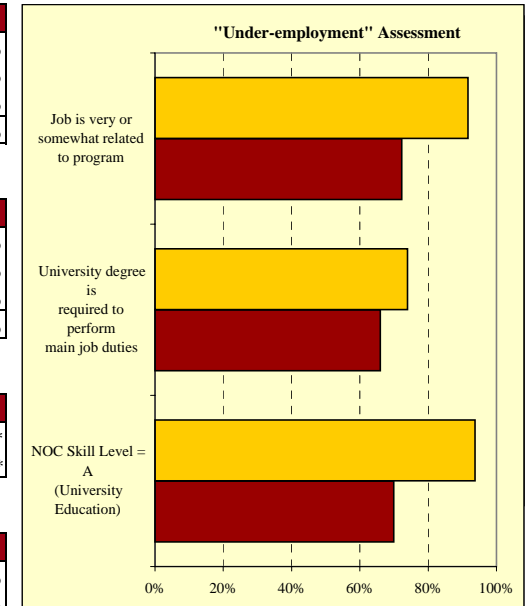
EMPLOYMENT

11. Labour Force Status:	14.1001	SYSTEM
In Labour Force (working or seeking work)	52 100%	4,952 91%
Not in Labour Force	- 0%	497 9%
Grand Total	52 100%	5,449 100%



12. Employment Status of those IN Labour Force:	14.1001	SYSTEM
Employed	48 92%	4,749 96%
Have a paid job lined up	- 0%	49 1%
Unemployed	4 8%	154 3%
Total Labour Force	52 100%	4,952 100%

13. Status of Graduates NOT in Labour Force:	14.1001	SYSTEM
Attending School FT	N/A	225 45%
Attending School PT	N/A	27 5%
Other	N/A	245 49%
Total NOT in Labour Force	-	497 100%



14. Employment Type:	14.1001	SYSTEM
Paid worker	44 92%	4,135 87%
Self-employed	3 6%	379 8%
Both a paid worker and self-employed	1 2%	235 5%
Total Employed	48 100%	4,749 100%

15. Job Characteristics:	14.1001	SYSTEM
I hold more than one job	2 4%*	706 15%*
My main job is full-time (>= 30 hours per week)	47 98%**	4,014 86%**

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

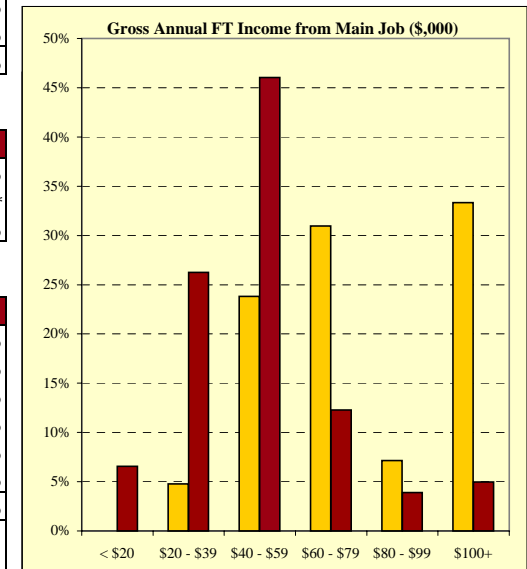
16. How related is your main job to your program?:	14.1001	SYSTEM
Very Related	19 40%	1,940 41%
Somewhat Related	25 52%	1,492 31%
Not Very Related	2 4%	601 13%
Not At All Related	2 4%	712 15%
Total	48 100%	4,745 100%

17. "Under-employment" Assessment:	14.1001	SYSTEM
Job is very or somewhat related to program	44 92%	3,432 72%
University degree is required to perform main job duties	34 74%*	3,000 66%*
NOC Skill Level = A (University Education)	45 94%	3,300 70%*

* of total valid responses

18. Gross Annual Income from Main Job:*	14.1001	SYSTEM
Less than \$20,000	- 0%	284 7%
\$20,000 to \$39,999	2 5%	1,138 26%
\$40,000 to \$59,999	10 24%	1,996 46%
\$60,000 to \$79,999	13 31%	533 12%
\$80,000 to \$99,999	3 7%	169 4%
\$100,000 and Above	14 33%	215 5%
Total	42 100%	4,335 100%
Median Annual Income (full-time)	\$73,000	\$45,680
Average Annual Income (full-time)	\$97,835	\$54,596

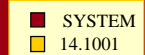
* where data provided



Detailed Summary of Survey Results

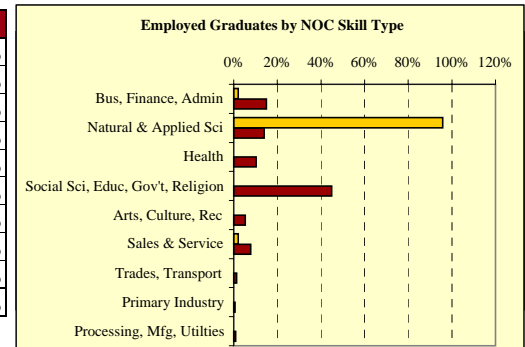
All Institutions

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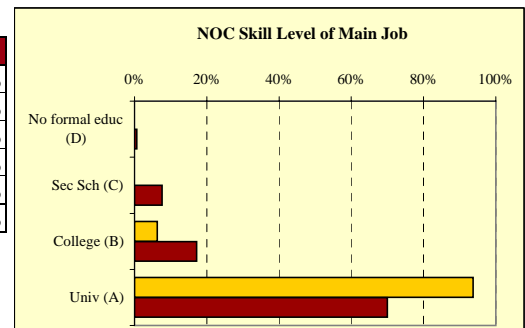


EMPLOYMENT, continued

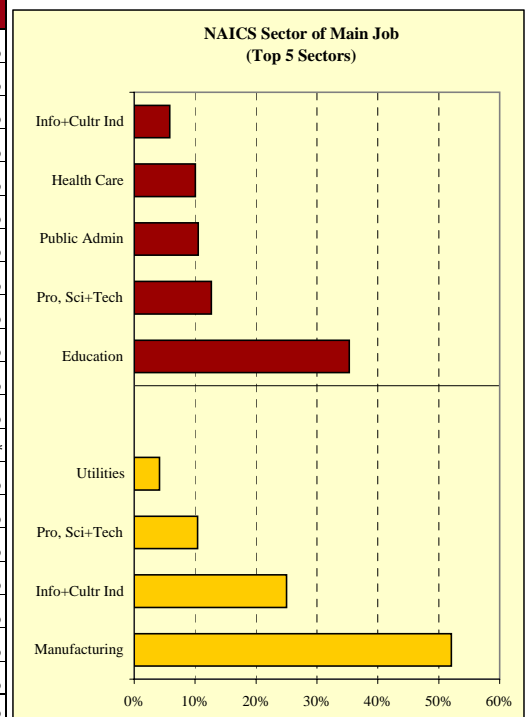
19. NOC Skill Type of Main Job:	14.1001	SYSTEM
Business, Finance and Administration	1 2%	703 15%
Natural and Applied Sciences and Related	46 96%	659 14%
Health	- 0%	482 10%
Social Sciences, Educ., Gov't Services, Religion	- 0%	2,112 45%
Arts, Culture, Recreation and Sport	- 0%	252 5%
Sales and Service	1 2%	366 8%
Trades, Transport and Eqp. Operators and Related	- 0%	62 1%
Unique to the Primary Industry	- 0%	31 1%
Unique to Processing, Manufacturing and Utilities	- 0%	40 1%
Total	48 100%	4,707 100%



20. NOC Skill Level of Main Job:	14.1001	SYSTEM
A. University education	45 94%	3,300 70%
B. College education/trade apprenticeship	3 6%	811 17%
C. Secondary school + job-specific training	- 0%	361 8%
D. No formal education	- 0%	29 1%
No Skill Level assigned (management)	- 0%	218 5%
Total	48 100%	4,719 100%



21. NAICS Sector of Main Job:	14.1001	SYSTEM
Agriculture, Forestry, Fishing and Hunting	* *	48 1%
Mining and Oil and Gas Extraction	* *	17 0%
Utilities	2 4%	20 0%
Construction	* *	33 1%
Manufacturing	25 52%	271 6%
Wholesale Trade	* *	46 1%
Retail Trade	* *	157 3%
Transportation and Warehousing	* *	76 2%
Information and Cultural Industries	12 25%	275 6%
Finance and Insurance	* *	231 5%
Real Estate and Rental and Leasing	* *	31 1%
Professional, Scientific and Technical Services	5 10%	594 13%
Management of Companies and Enterprises	* *	* *
Admin., Support, Waste Mgmt., Remediation Svcs.	* *	28 1%
Education Services	* *	1659 35%
Health Care and Social Assistance	* *	471 10%
Arts, Entertainment and Recreation	* *	89 2%
Accommodation and Food services	* *	61 1%
Other Service (except Public Administration)	* *	97 2%
Public Administration	* *	494 11%
Total	48 100%	4698 100%



*data not displayed where n < 2

Detailed Summary of Survey Results

All Institutions

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■ SYSTEM
■ 14.1001

EMPLOYMENT, continued

22a. **Top 10 Full-time Occupations of 14.1001 Graduates:**

			14.1001	
NOC	NOC	Skill Level Description	% Employed FT in this Occ.**	Median FT Salary
2147	A	Computer Engineers	23%	\$115,000
2173	A	Software Engineers	23%	\$78,000
2133	A	Electrical & Electronics Engineers	23%	\$67,366
2174	A	Computer Programmers/Interactive Media Developers	13%	\$63,600
2283	B	Systems Testing Technicians	4%	\$120,000
2132	A	Mechanical Engineers	4%	\$75,000
*				
*				
*				
*				

*data not displayed where n < 2

**percentages cited are of those for whom occupational data was provided, full-time and part-time

22b. **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	11%	\$43,000
4142	A	Elem & Kindergarten Teacher	11%	\$42,000
4112	A	Lawyers & Quebec Notaries	3%	\$75,000
3152	A	Registered Nurses	3%	\$51,474
1111	A	Financial Auditors & Acnts	2%	\$58,250
2173	A	Software Engineers	2%	\$72,000
1122	A	Occs in Bus Srvc to Mgmt	2%	\$65,000
4212	B	Community & Social Srvc Workers	1%	\$36,000
4131	A	College & Other Voc Instructors	1%	\$41,600
1114	A	Other Financial Officers	1%	\$56,000

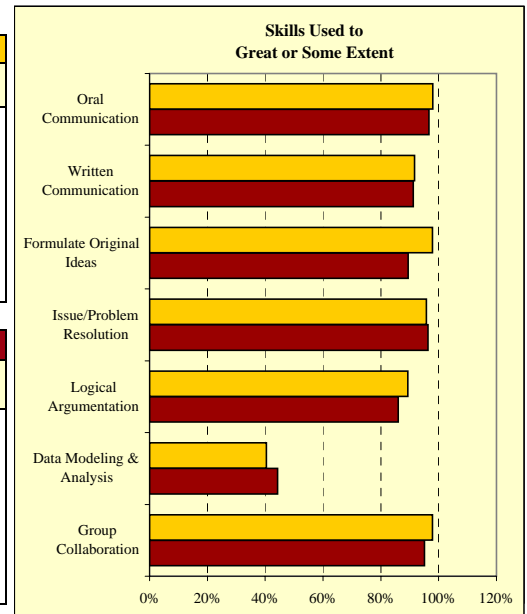
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**percentages cited are of those for whom occupational data was provided, full-time and part-time

SKILLS USED IN EMPLOYMENT

23a. **To what extent do you use [the following skills] in your main job?**

	14.1001				# Resp.
	Great Extent	Some Extent	Small Extent	No Extent	
Oral Communication	77%	21%	2%	0%	48
Written Communication	63%	29%	6%	2%	48
Formulate Original Ideas	53%	45%	2%	0%	47
Issue/Problem Resolution	77%	19%	4%	0%	47
Logical Argumentation	55%	34%	11%	0%	47
Data Modeling & Analysis	13%	28%	45%	15%	47
Group Collaboration	83%	15%	0%	2%	47



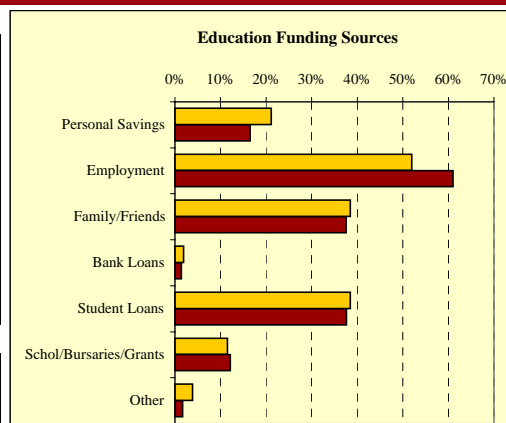
23b. **To what extent do you use [the following skills] in your main job?**

	SYSTEM				# Resp.
	Great Extent	Some Extent	Small Extent	No Extent	
Oral Communication	81%	16%	3%	1%	4,741
Written Communication	69%	22%	6%	3%	4,737
Formulate Original Ideas	54%	36%	8%	2%	4,737
Issue/Problem Resolution	77%	19%	3%	1%	4,741
Logical Argumentation	52%	34%	11%	3%	4,731
Data Modeling & Analysis	19%	25%	29%	27%	4,723
Group Collaboration	77%	18%	4%	1%	4,741

EDUCATION FINANCING

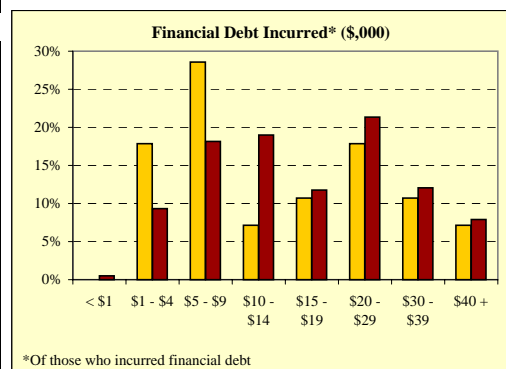
24. Education Funding Sources (2 sources per respondent):	14.1001		SYSTEM	
Personal Savings	11	21%*	898	16%*
Employment	27	52%*	3,323	61%*
Family/Friends	20	38%*	2,048	38%*
Bank Loans	1	2%*	75	1%*
Student Loans	20	38%*	2,051	38%*
Scholarships/Bursaries/Grants	6	12%*	661	12%*
Other	2	4%*	90	2%*
Total Respondents	52		5,449	

* Percentage of respondents who identified this source



25. Financial Debt Incurred to Finance Univ. Education:	14.1001		SYSTEM	
Incurred any form of financial debt	28	56%*	2,471	47%*
Incurred government-sponsored student loan debt	24	49%*	2,106	40%*

* Percentage of respondents who provided data



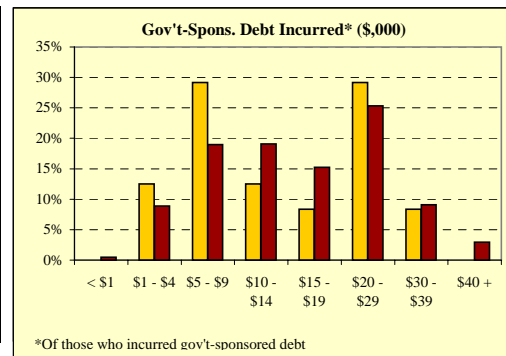
*Of those who incurred financial debt

26. Financial Debt Amount:*	14.1001		SYSTEM	
< \$1,000	-	0%	12	0%
\$1,000 to \$4,999	5	18%	231	9%
\$5,000 to \$9,999	8	29%	448	18%
\$10,000 to \$14,999	2	7%	469	19%
\$15,000 to \$19,999	3	11%	291	12%
\$20,000 to \$29,999	5	18%	527	21%
\$30,000 to \$39,999	3	11%	298	12%
\$40,000 or More	2	7%	195	8%
Total	28	100%	2,471	100%
Median Financial Debt	\$12,500		\$15,000	

*includes only cases where financial debt was incurred

27. Government-Sponsored Student Loan Debt Amount:*	14.1001		SYSTEM	
< \$1,000	-	0%	10	0%
\$1,000 to \$4,999	3	13%	187	9%
\$5,000 to \$9,999	7	29%	399	19%
\$10,000 to \$14,999	3	13%	402	19%
\$15,000 to \$19,999	2	8%	321	15%
\$20,000 to \$29,999	7	29%	533	25%
\$30,000 to \$39,999	2	8%	192	9%
\$40,000 or More	-	0%	62	3%
Total	24	100%	2,106	100%
Median Gov't-Sponsored Student Loan Debt	\$12,500		\$15,000	

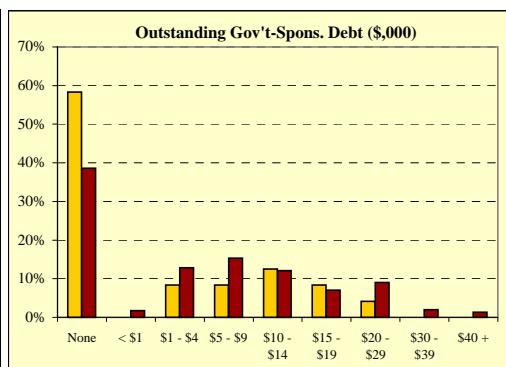
*includes only cases where government-sponsored debt was incurred



*Of those who incurred gov't-sponsored debt

28. Outstanding Gov't-Sponsored Loan Debt Amount:*	14.1001		SYSTEM	
None - Loan repaid in full	14	58%	747	39%
< \$1,000	-	0%	34	2%
\$1,000 to \$4,999	2	8%	249	13%
\$5,000 to \$9,999	2	8%	296	15%
\$10,000 to \$14,999	3	13%	234	12%
\$15,000 to \$19,999	2	8%	136	7%
\$20,000 to \$29,999	1	4%	174	9%
\$30,000 to \$39,999	-	0%	39	2%
\$40,000 or More	-	0%	26	1%
Total	24	100%	1,935	100%
Median Gov't-Sponsored Loan Debt Outstanding	\$0		\$3,600	

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



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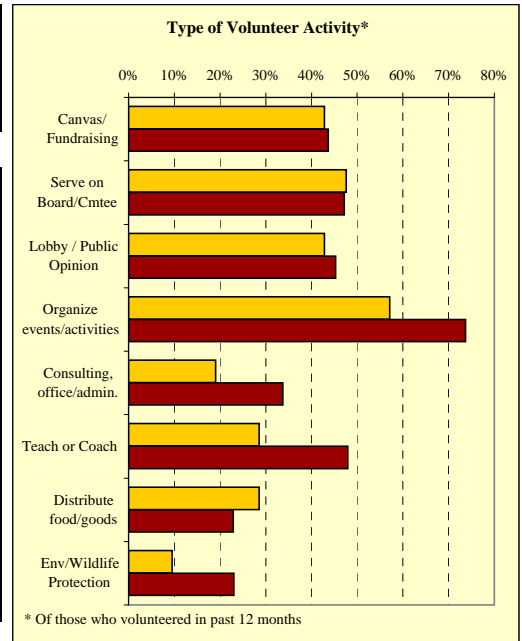
SYSTEM
14.1001

SPECIAL SECTION ON COMMUNITY INVOLVEMENT / VOLUNTEER ACTIVITY

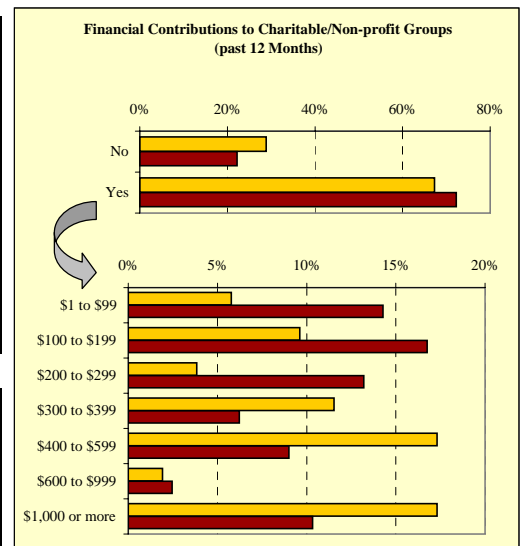
29. In the past 12 months, have you acted as an unpaid volunteer?	14.1001		SYSTEM	
No	31	60%	2,237	41%
Yes	21	40%	3,162	59%
Volunteer Hours/Week (Median)	1		1	

30. In the past 12 months, as an unpaid volunteer for an organization did you...	14.1001		SYSTEM	
do any canvassing, campaigning or fundraising?	9	43%*	1,382	44%*
serve as an unpaid member of a board or committee?	10	48%*	1,492	47%*
provide information or help to educate, influence public opinion, or lobby others?	9	43%*	1,431	45%*
help to organize/supervise activities/events for an organization?	12	57%*	2,331	74%*
do any consulting, executive, office or administrative work?	4	19%*	1,067	34%*
teach or coach for an organization?	6	29%*	1,517	48%*
collect, serve or deliver food or other goods?	6	29%*	723	23%*
engage in any activities aimed at protecting the environment or wildlife?	2	10%*	728	23%*

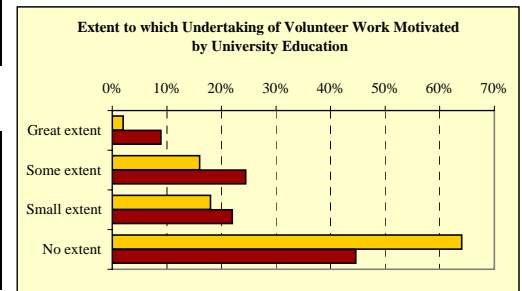
*percentages are of those who have acted as an unpaid volunteer in the past 12 months



31. Financial contributions to charitable or non-profit groups in past 12 months	14.1001		SYSTEM	
\$0 (None)	15	29%	1,212	22%
\$1 to \$99	3	6%	778	14%
\$100 to \$199	5	10%	913	17%
\$200 to \$299	2	4%	719	13%
\$300 to \$399	6	12%	339	6%
\$400 to \$599	9	17%	491	9%
\$600 to \$999	1	2%	134	2%
\$1,000 or more	9	17%	563	10%
Median Annual Contribution	\$400		\$200	



32. Member or Participant in...	14.1001		SYSTEM	
Union/Professional Association (work-related)	22	42%	3,621	66%
Political organization	1	2%	283	5%
Cultural, educational or hobby organization	13	25%	1,776	33%
Sports or recreation organization	24	46%	2,369	43%
Religious-affiliated group	14	27%	1,020	19%
School group, civic, or community association	6	12%	1,449	27%
Other	3	6%	470	9%



33. To what extent did your university education motivate you to undertake volunteer work?	14.1001		SYSTEM	
Great extent	1	2%*	474	9%*
Some extent	8	16%*	1,298	24%*
Small extent	9	18%*	1,168	22%*
No extent	32	64%*	2,367	45%*

*percentages are of those who thought question was applicable