

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

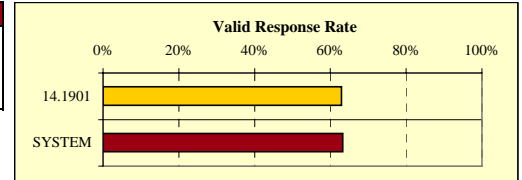
Detailed Summary of Survey Results
All Institutions

6 Digit CIP: 14.1901: Mechanical Engineering

■ SYSTEM
■ 14.1901

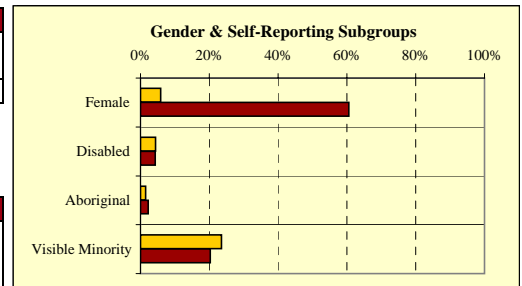
RESPONSE RATE

1. Survey Response Rate:	14.1901	SYSTEM
Baccalaureate Graduates Survey Cohort	128	9,531
Net Frame	108	8,613
Survey Respondents and Valid Response Rate	68	5,449
	63%	63%



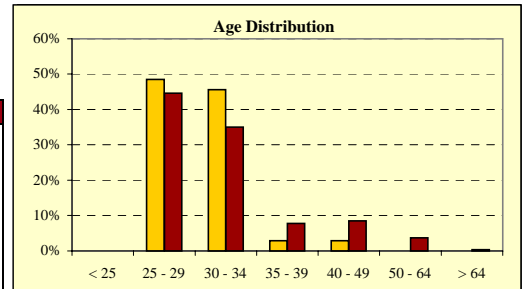
DEMOGRAPHIC INFORMATION

2. Gender:	14.1901	SYSTEM
Male	64	2,147
Female	4	3,302
Total	68	5,449
	100%	100%

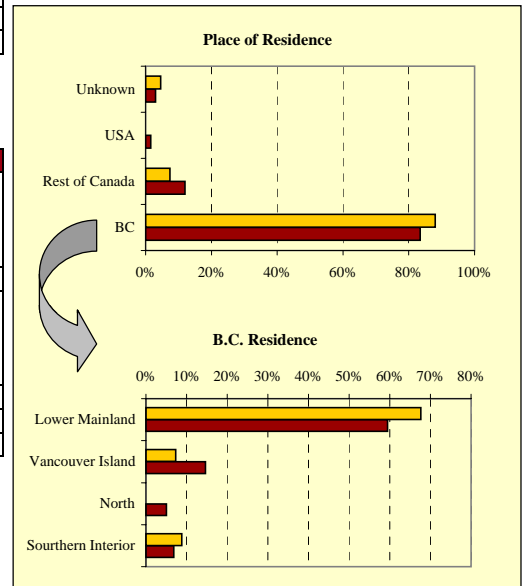


3. Self-Reporting Subgroups:	14.1901	SYSTEM
Disabled	3	234
Aboriginal	1	124
Visible Minority	16	1,104
	4%	20%

4. Age (at time of survey):	14.1901	SYSTEM
< 25	-	2
25 to 29	33	2,413
30 to 34	31	1,895
35 to 39	2	421
40 to 49	2	461
50 to 64	-	199
> 64	-	19
Unknown	-	39
Total	68	5,410
	100%	100%
Mean Age:	30.5	32.4



5. Place of Residence (at time of survey):	14.1901	SYSTEM
BC - Lower Mainland	46	3,241
BC - Vancouver Island	5	800
BC - North	-	276
BC - Southern Interior	6	372
B.C. Subtotal	57	4,689
Canada - Alberta	4	193
Canada - Ontario	2	212
Canada - Other	-	91
U.S.A.	3	146
Non-B.C. Subtotal	9	642
Unknown	2	118
Total	68	5,449
	100%	100%



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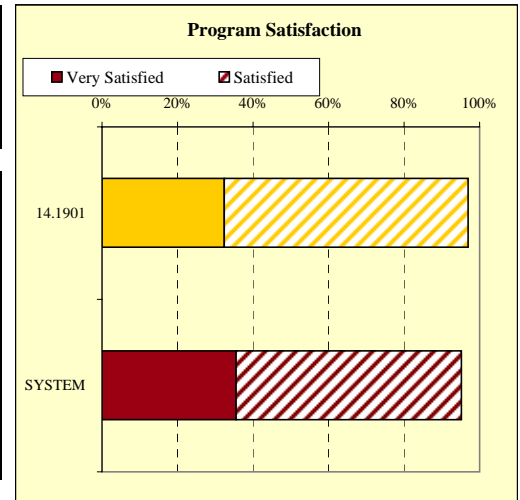
■ SYSTEM
■ 14.1901

EDUCATION SATISFACTION & PROGRAM EVALUATION

6. Program Satisfaction:	14.1901	SYSTEM
Very Satisfied	22 32%	1,932 36%
Satisfied	44 65%	3,246 60%
Dissatisfied	2 3%	228 4%
Very Dissatisfied	- 0%	30 1%
Total	68 100%	5,436 100%

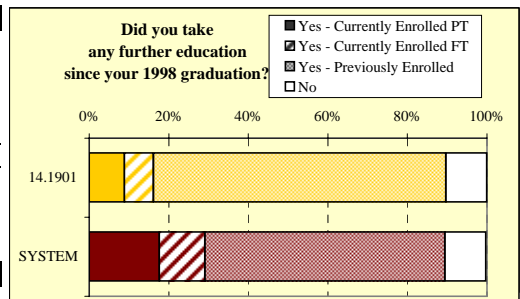
7. Would you select the same program again?	14.1901	SYSTEM
Yes	47 71%	3,866 73%
No, because . . . (multiple response question)	19	1,420
. . . not enough course variety offered	- 0%*	23 1%*
. . . skills acquired were not very useful	1 5%*	136 7%*
. . . courses were poorly taught	- 0%*	29 2%*
. . . program was too general	- 0%*	149 8%*
. . . courses were not practical	2 10%*	242 13%*
. . . interests have changed	5 24%*	356 20%*
. . . little or no career opportunities	7 33%*	511 28%*
. . . disagree with grading system	- 0%*	2 0%*
. . . disliked institution	- 0%*	6 0%*
. . . other	6 29%*	368 20%*

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



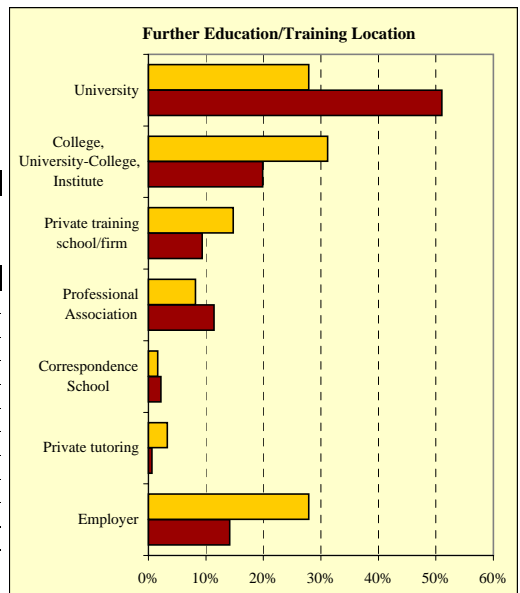
FURTHER EDUCATION

8. Took further education since 1996 graduation?	14.1901	SYSTEM
Yes:	61 90%	4,885 90%
Not currently enrolled	50 74%	3,285 60%
Currently enrolled full-time	5 7%	628 12%
Currently enrolled part-time	6 9%	961 18%
No	7 10%	564 10%
Total	68 100%	5,449 100%



9. Further education/training location (multiple resp.):*	14.1901	SYSTEM
University	17 28%*	2,494 51%*
College, University-College, Institute	19 31%*	972 20%*
Private training school/firm	9 15%*	457 9%*
Professional Association	5 8%*	557 11%*
Correspondence School	1 2%*	105 2%*
Private Tutoring	2 3%*	29 1%*
Employer	17 28%*	691 14%*
Other	3 5%*	163 3%*
Total Respondents	61	4,885

* Percent of respondents



10. Main Reason for Further Education:	14.1901	SYSTEM
Pursue another Bachelor degree	- 0%	315 6%
Pursue Masters studies	8 11%	566 10%
Pursue Doctoral studies	- 0%	138 3%
Career / job / employment related	48 66%	3,421 63%
Challenge myself intellectually	8 11%	446 8%
To please parents/family	- 0%	3 0%
Did not have a primary/main reason for enrolling	1 1%	13 0%
Required by employer	4 5%	173 3%
Other	4 5%	382 7%
Total	73 100%	5,457 100%

Detailed Summary of Survey Results

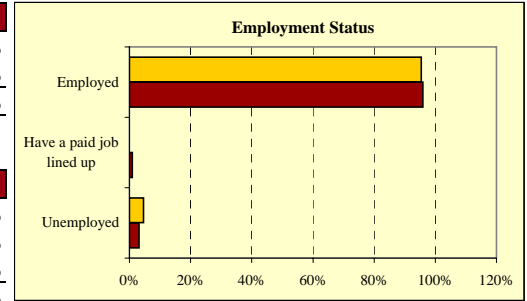
All Institutions

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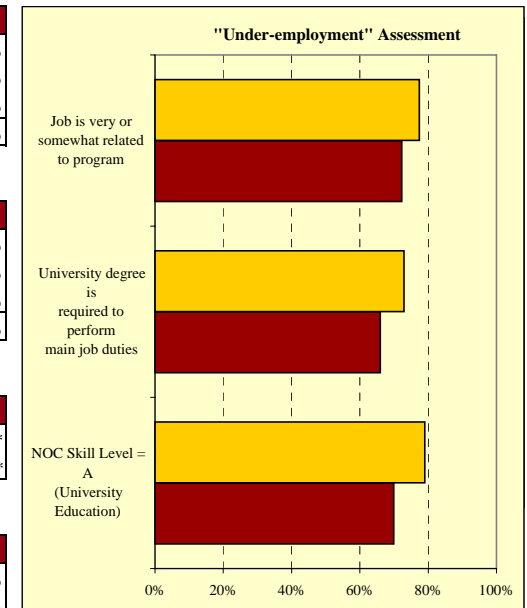
EMPLOYMENT

11. Labour Force Status:	14.1901	SYSTEM
In Labour Force (working or seeking work)	65 96%	4,952 91%
Not in Labour Force	3 4%	497 9%
Grand Total	68 100%	5,449 100%



12. Employment Status of those IN Labour Force:	14.1901	SYSTEM
Employed	62 95%	4,749 96%
Have a paid job lined up	- 0%	49 1%
Unemployed	3 5%	154 3%
Total Labour Force	65 100%	4,952 100%

13. Status of Graduates NOT in Labour Force:	14.1901	SYSTEM
Attending School FT	1 33%	225 45%
Attending School PT	1 33%	27 5%
Other	1 33%	245 49%
Total NOT in Labour Force	3 100%	497 100%



14. Employment Type:	14.1901	SYSTEM
Paid worker	59 95%	4,135 87%
Self-employed	1 2%	379 8%
Both a paid worker and self-employed	2 3%	235 5%
Total Employed	62 100%	4,749 100%

15. Job Characteristics:	14.1901	SYSTEM
I hold more than one job	1 2%*	706 15%*
My main job is full-time (>= 30 hours per week)	60 98%**	4,014 86%**

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

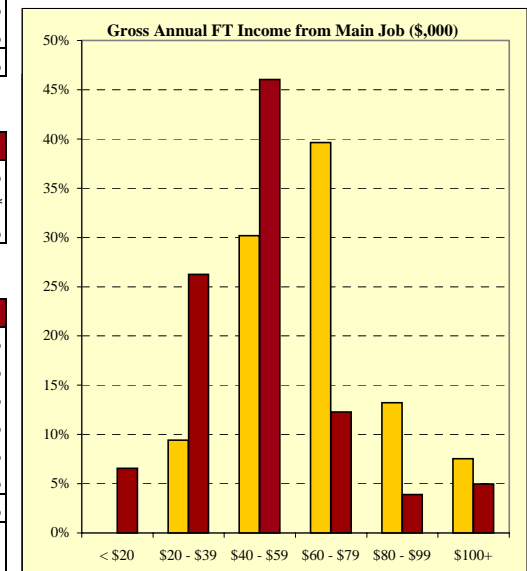
16. How related is your main job to your program?:	14.1901	SYSTEM
Very Related	27 44%	1,940 41%
Somewhat Related	21 34%	1,492 31%
Not Very Related	11 18%	601 13%
Not At All Related	3 5%	712 15%
Total	62 100%	4,745 100%

17. "Under-employment" Assessment:	14.1901	SYSTEM
Job is very or somewhat related to program	48 77%	3,432 72%
University degree is required to perform main job duties	43 73%*	3,000 66%*
NOC Skill Level = A (University Education)	49 79%	3,300 70%

* of total valid responses

18. Gross Annual Income from Main Job:*	14.1901	SYSTEM
Less than \$20,000	- 0%	284 7%
\$20,000 to \$39,999	5 9%	1,138 26%
\$40,000 to \$59,999	16 30%	1,996 46%
\$60,000 to \$79,999	21 40%	533 12%
\$80,000 to \$99,999	7 13%	169 4%
\$100,000 and Above	4 8%	215 5%
Total	53 100%	4,335 100%
Median Annual Income (full-time)	\$61,260	\$45,680
Average Annual Income (full-time)	\$68,571	\$54,596

* where data provided



Detailed Summary of Survey Results

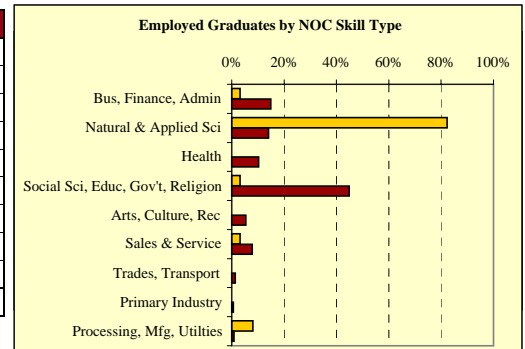
All Institutions

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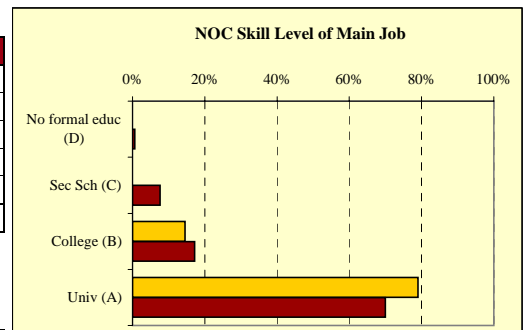
SYSTEM
14.1901

EMPLOYMENT, continued

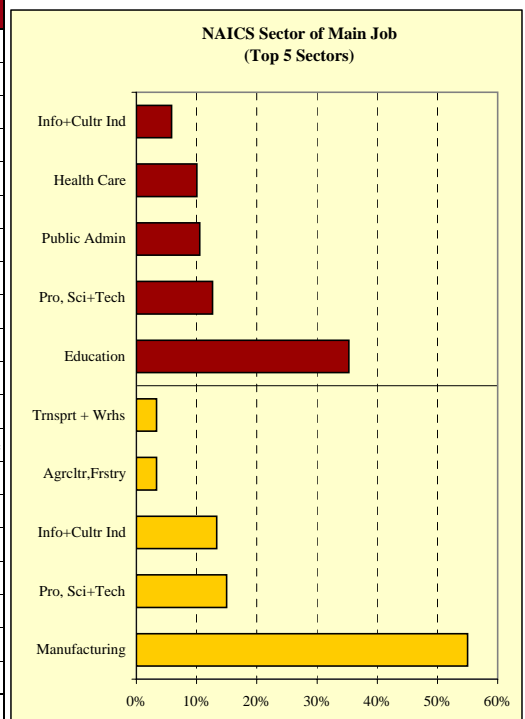
19. NOC Skill Type of Main Job:	14.1901	SYSTEM
Business, Finance and Administration	2 3%	703 15%
Natural and Applied Sciences and Related	51 82%	659 14%
Health	- 0%	482 10%
Social Sciences, Educ., Gov't Services, Religion	2 3%	2,112 45%
Arts, Culture, Recreation and Sport	- 0%	252 5%
Sales and Service	2 3%	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	5 8%	40 1%
Total	62 100%	4,707 100%



20. NOC Skill Level of Main Job:	14.1901	SYSTEM
A. University education	49 79%	3,300 70%
B. College education/trade apprenticeship	9 15%	811 17%
C. Secondary school + job-specific training	- 0%	361 8%
D. No formal education	- 0%	29 1%
No Skill Level assigned (management)	4 6%	218 5%
Total	62 100%	4,719 100%



21. NAICS Sector of Main Job:	14.1901	SYSTEM
Agriculture, Forestry, Fishing and Hunting	2 3%	48 1%
Mining and Oil and Gas Extraction	* *	17 0%
Utilities	* *	20 0%
Construction	* *	33 1%
Manufacturing	33 55%	271 6%
Wholesale Trade	* *	46 1%
Retail Trade	* *	157 3%
Transportation and Warehousing	2 3%	76 2%
Information and Cultural Industries	8 13%	275 6%
Finance and Insurance	2 3%	231 5%
Real Estate and Rental and Leasing	* *	31 1%
Professional, Scientific and Technical Services	9 15%	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	60 100%	4698 100%



*data not displayed where n < 2

Detailed Summary of Survey Results

All Institutions

6 Digit CIP: 14.1901: Mechanical Engineering

■ SYSTEM
■ 14.1901

EMPLOYMENT, continued

22a. Top 10 Full-time Occupations of 14.1901 Graduates:				14.1901	
NOC	NOC	Skill Level Description	% Employed FT in this Occ.**	Median FT Salary	
2132	A	Mechanical Engineers	50%	\$64,000	
2174	A	Computer Programmers/Interactive Media Developers	6%	\$45,000	
0911	N/A	Manufacturing Managers	5%	\$115,000	
2173	A	Software Engineers	5%	\$61,260	
2134	A	Chemical Engineers	3%	\$355,000	
6221	B	Tech Sales Specialists, Wholesale	3%	\$120,000	
1122	A	Occs in Bus Srvc to Mgmt	3%	\$88,500	
2232	B	Mechanical Engineering Technicians	3%	\$58,504	
*					
*					

*data not displayed where n < 2

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

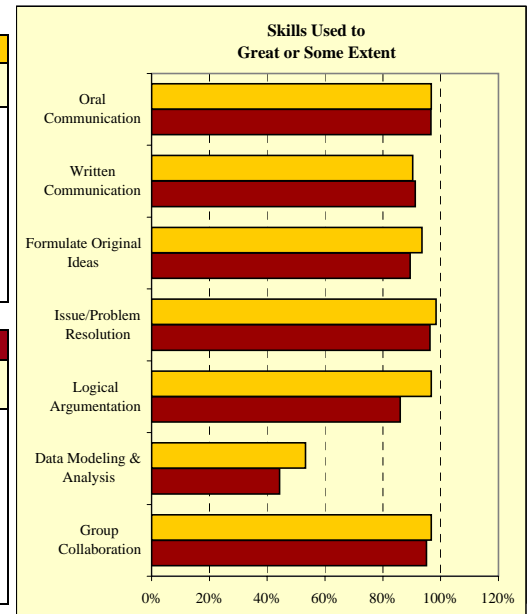
22b. Top 10 Full-time Occupations of Graduates from All Institutions:				SYSTEM	
NOC	NOC	Skill Level Description	% Employed FT in this Occ.**	Median FT Salary	
4141	A	Secondary School Teachers	11%	\$43,000	
4142	A	Elem & Kindergarten Teacher	11%	\$42,000	
4112	A	Lawyers & Quebec Notaries	3%	\$75,000	
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	

*data not displayed where n < 2

**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?	14.1901					# Resp.
	Great Extent	Some Extent	Small Extent	No Extent		
Oral Communication	68%	29%	2%	2%	62	
Written Communication	58%	32%	6%	3%	62	
Formulate Original Ideas	45%	48%	6%	0%	62	
Issue/Problem Resolution	82%	16%	2%	0%	62	
Logical Argumentation	58%	39%	3%	0%	62	
Data Modeling & Analysis	21%	32%	37%	10%	62	
Group Collaboration	76%	21%	2%	2%	62	

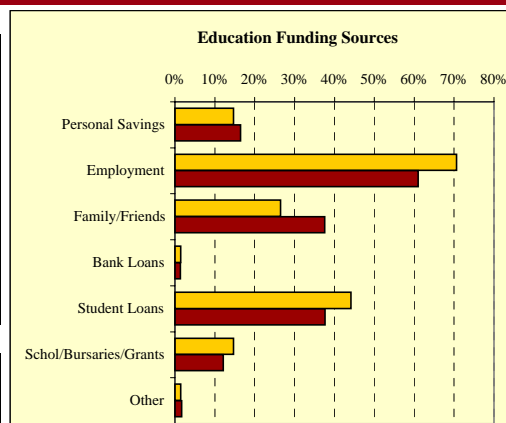


23b. To what extent do you use [the following skills] in your main job?	SYSTEM					# Resp.
	Great Extent	Some Extent	Small Extent	No Extent		
Oral Communication	81%	16%	3%	1%	4,741	
Written Communication	69%	22%	6%	3%	4,737	
Formulate Original Ideas	54%	36%	8%	2%	4,737	
Issue/Problem Resolution	77%	19%	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

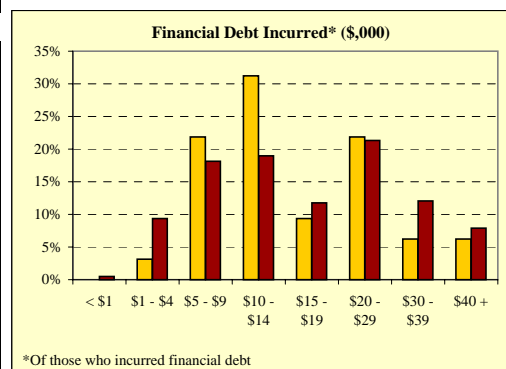
24. Education Funding Sources (2 sources per respondent):	14.1901		SYSTEM	
Personal Savings	10	15%*	898	16%*
Employment	48	71%*	3,323	61%*
Family/Friends	18	26%*	2,048	38%*
Bank Loans	1	1%*	75	1%*
Student Loans	30	44%*	2,051	38%*
Scholarships/Bursaries/Grants	10	15%*	661	12%*
Other	1	1%*	90	2%*
Total Respondents	68		5,449	

* Percentage of respondents who identified this source



25. Financial Debt Incurred to Finance Univ. Education:	14.1901		SYSTEM	
Incurred any form of financial debt	32	49%*	2,471	47%*
Incurred government-sponsored student loan debt	26	40%*	2,106	40%*

* Percentage of respondents who provided data



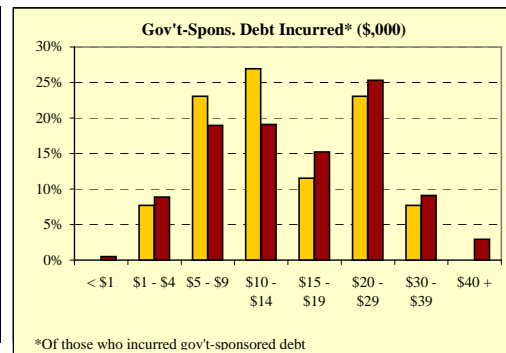
*Of those who incurred financial debt

26. Financial Debt Amount:*	14.1901		SYSTEM	
< \$1,000	-	0%	12	0%
\$1,000 to \$4,999	1	3%	231	9%
\$5,000 to \$9,999	7	22%	448	18%
\$10,000 to \$14,999	10	31%	469	19%
\$15,000 to \$19,999	3	9%	291	12%
\$20,000 to \$29,999	7	22%	527	21%
\$30,000 to \$39,999	2	6%	298	12%
\$40,000 or More	2	6%	195	8%
Total	32	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:*	14.1901		SYSTEM	
< \$1,000	-	0%	10	0%
\$1,000 to \$4,999	2	8%	187	9%
\$5,000 to \$9,999	6	23%	399	19%
\$10,000 to \$14,999	7	27%	402	19%
\$15,000 to \$19,999	3	12%	321	15%
\$20,000 to \$29,999	6	23%	533	25%
\$30,000 to \$39,999	2	8%	192	9%
\$40,000 or More	-	0%	62	3%
Total	26	100%	2,106	100%
Median Gov't-Sponsored Student Loan Debt	\$12,500		\$15,000	

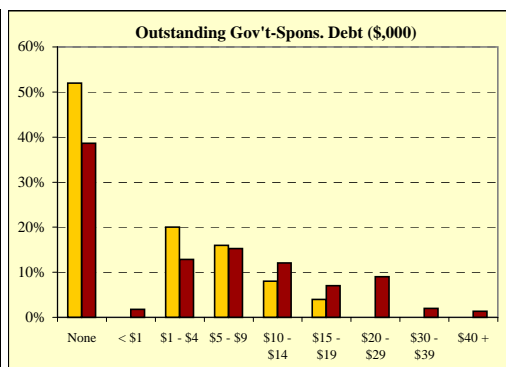
*includes only cases where government-sponsored debt was incurred



*Of those who incurred gov't-sponsored debt

28. Outstanding Gov't-Sponsored Loan Debt Amount:*	14.1901		SYSTEM	
None - Loan repaid in full	13	52%	747	39%
< \$1,000	-	0%	34	2%
\$1,000 to \$4,999	5	20%	249	13%
\$5,000 to \$9,999	4	16%	296	15%
\$10,000 to \$14,999	2	8%	234	12%
\$15,000 to \$19,999	1	4%	136	7%
\$20,000 to \$29,999	-	0%	174	9%
\$30,000 to \$39,999	-	0%	39	2%
\$40,000 or More	-	0%	26	1%
Total	25	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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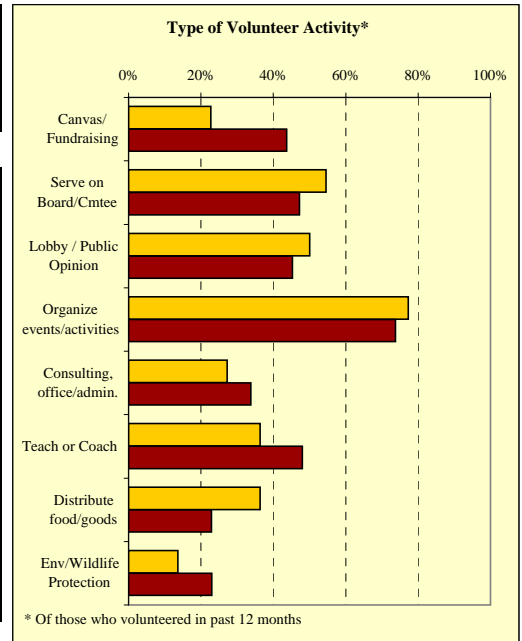
SYSTEM
14.1901

SPECIAL SECTION ON COMMUNITY INVOLVEMENT / VOLUNTEER ACTIVITY

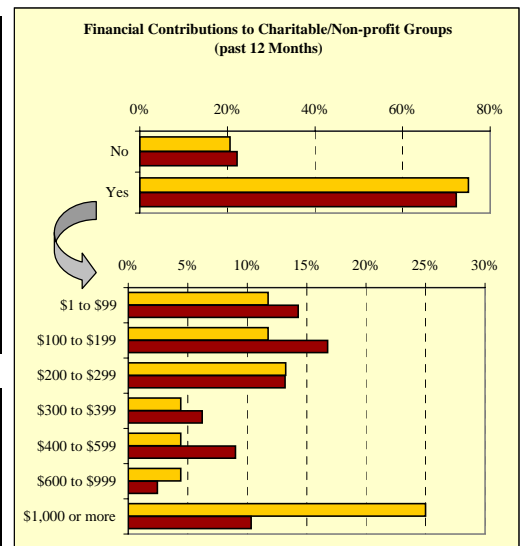
29.	In the past 12 months, have you acted as an unpaid volunteer?	14.1901		SYSTEM	
	No	45	67%	2,237	41%
	Yes	22	33%	3,162	59%
	Volunteer Hours/Week (Median)	1		1	

30.	In the past 12 months, as an unpaid volunteer for an organization did you...	14.1901		SYSTEM	
	do any canvassing, campaigning or fundraising?	5	23%*	1,382	44%*
	serve as an unpaid member of a board or committee?	12	55%*	1,492	47%*
	provide information or help to educate, influence public opinion, or lobby others?	11	50%*	1,431	45%*
	help to organize/supervise activities/events for an organization?	17	77%*	2,331	74%*
	do any consulting, executive, office or administrative work?	6	27%*	1,067	34%*
	teach or coach for an organization?	8	36%*	1,517	48%*
	collect, serve or deliver food or other goods?	8	36%*	723	23%*
	engage in any activities aimed at protecting the environment or wildlife?	3	14%*	728	23%*

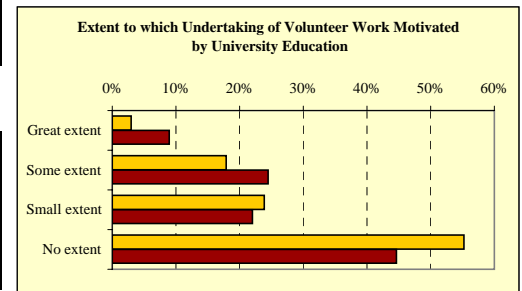
*percentages are of those who have acted as an unpaid volunteer in the past 12 months



31.	Financial contributions to charitable or non-profit groups in past 12 months	14.1901		SYSTEM	
	\$0 (None)	14	21%	1,212	22%
	\$1 to \$99	8	12%	778	14%
	\$100 to \$199	8	12%	913	17%
	\$200 to \$299	9	13%	719	13%
	\$300 to \$399	3	4%	339	6%
	\$400 to \$599	3	4%	491	9%
	\$600 to \$999	3	4%	134	2%
	\$1,000 or more	17	25%	563	10%
	Median Annual Contribution	\$300		\$200	



32.	Member or Participant in...	14.1901		SYSTEM	
	Union/Professional Association (work-related)	45	66%	3,621	66%
	Political organization	1	1%	283	5%
	Cultural, educational or hobby organization	12	18%	1,776	33%
	Sports or recreation organization	29	43%	2,369	43%
	Religious-affiliated group	17	25%	1,020	19%
	School group, civic, or community association	8	12%	1,449	27%
	Other	5	7%	470	9%



33.	To what extent did your university education motivate you to undertake volunteer work?	14.1901		SYSTEM	
	Great extent	2	3%*	474	9%*
	Some extent	12	18%*	1,298	24%*
	Small extent	16	24%*	1,168	22%*
	No extent	37	55%*	2,367	45%*

*percentages are of those who thought question was applicable