

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

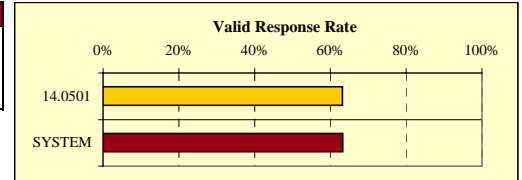
Detailed Summary of Survey Results  
All Institutions

6 Digit CIP: 14.0501: Bioengineering & Biomedical Engineering

■ SYSTEM  
■ 14.0501

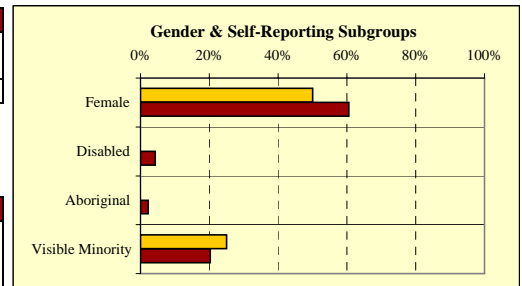
## RESPONSE RATE

1. Survey Response Rate:	14.0501	SYSTEM	
Baccalaureate Graduates Survey Cohort	21	9,531	
Net Frame	19	8,613	
Survey Respondents and Valid Response Rate	12	63%	5,449 63%



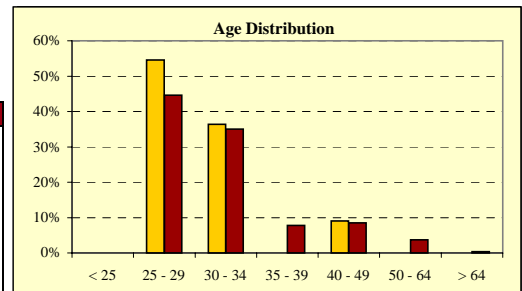
## DEMOGRAPHIC INFORMATION

2. Gender:	14.0501	SYSTEM	
Male	6	50%	2,147 39%
Female	6	50%	3,302 61%
Total	12	100%	5,449 100%

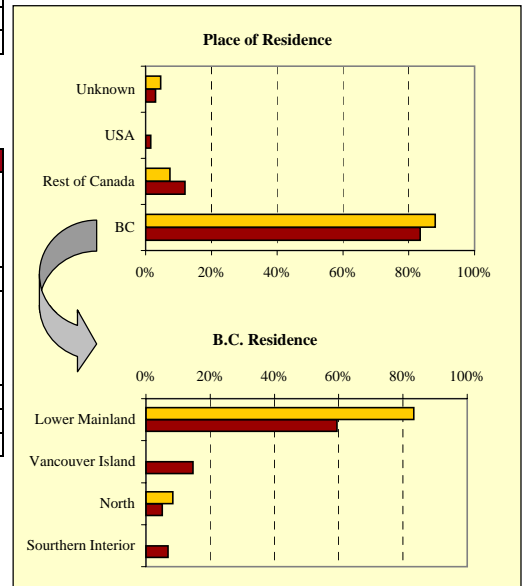


3. Self-Reporting Subgroups:	14.0501	SYSTEM	
Disabled	-	0%	234 4%
Aboriginal	-	0%	124 2%
Visible Minority	3	25%	1,104 20%

4. Age (at time of survey):	14.0501	SYSTEM	
< 25	-	0%	2 0%
25 to 29	6	55%	2,413 45%
30 to 34	4	36%	1,895 35%
35 to 39	-	0%	421 8%
40 to 49	1	9%	461 9%
50 to 64	-	0%	199 4%
> 64	-	0%	19 0%
Unknown	1	9%	39 1%
Total	11	100%	5,410 100%
Mean Age:	30.8	32.4	



5. Place of Residence (at time of survey):	14.0501	SYSTEM	
BC - Lower Mainland	10	83%	3,241 59%
BC - Vancouver Island	-	0%	800 15%
BC - North	1	8%	276 5%
BC - Southern Interior	-	0%	372 7%
B.C. Subtotal	11	92%	4,689 86%
Canada - Alberta	-	0%	193 4%
Canada - Ontario	-	0%	212 4%
Canada - Other	1	8%	91 2%
U.S.A.	-	0%	146 3%
Non-B.C. Subtotal	1	8%	642 12%
Unknown	-	0%	118 2%
Total	12	100%	5,449 100%

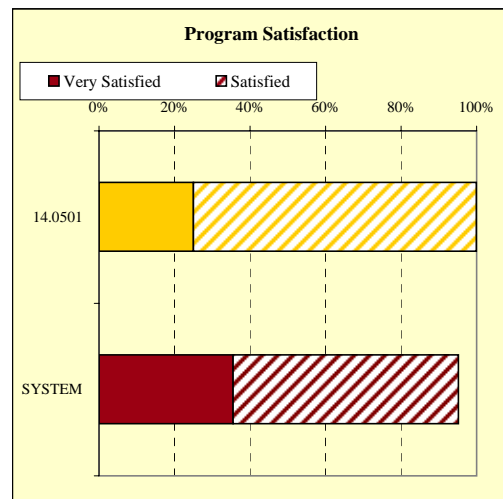


EDUCATION SATISFACTION & PROGRAM EVALUATION

6. Program Satisfaction:	14.0501		SYSTEM	
Very Satisfied	3	25%	1,932	36%
Satisfied	9	75%	3,246	60%
Dissatisfied	-	0%	228	4%
Very Dissatisfied	-	0%	30	1%
Total	12	100%	5,436	100%

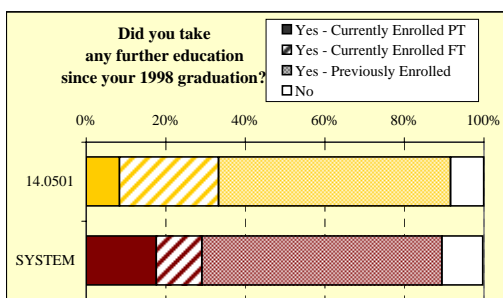
7. Would you select the same program again?	14.0501		SYSTEM	
Yes	7	58%	3,866	73%
No, because . . . (multiple response question)	5		1,420	
. . . not enough course variety offered	1	20%*	23	1%*
. . . skills acquired were not very useful	-	0%*	136	7%*
. . . courses were poorly taught	1	20%*	29	2%*
. . . program was too general	-	0%*	149	8%*
. . . courses were not practical	-	0%*	242	13%*
. . . interests have changed	1	20%*	356	20%*
. . . little or no career opportunities	-	0%*	511	28%*
. . . disagree with grading system	-	0%*	2	0%*
. . . disliked institution	-	0%*	6	0%*
. . . other	2	40%*	368	20%*

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



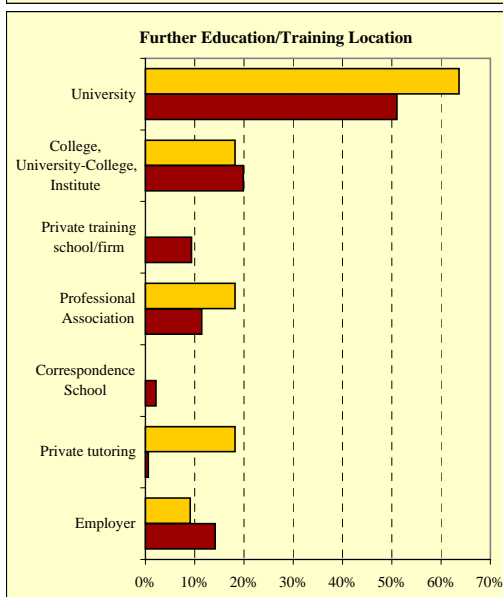
FURTHER EDUCATION

8. Took further education since 1996 graduation?	14.0501		SYSTEM	
Yes:	11	92%	4,885	90%
Not currently enrolled	7	58%	3,285	60%
Currently enrolled full-time	3	25%	628	12%
Currently enrolled part-time	1	8%	961	18%
No	1	8%	564	10%
Total	12	100%	5,449	100%



9. Further education/training location (multiple resp.):*	14.0501		SYSTEM	
University	7	64%*	2,494	51%*
College, University-College, Institute	2	18%*	972	20%*
Private training school/firm	-	0%*	457	9%*
Professional Association	2	18%*	557	11%*
Correspondence School	-	0%*	105	2%*
Private Tutoring	2	18%*	29	1%*
Employer	1	9%*	691	14%*
Other	-	0%*	163	3%*
Total Respondents	11		4,885	

\* Percent of respondents



10. Main Reason for Further Education:	14.0501		SYSTEM	
Pursue another Bachelor degree	-	0%	315	6%
Pursue Masters studies	1	7%	566	10%
Pursue Doctoral studies	1	7%	138	3%
Career / job / employment related	8	57%	3,421	63%
Challenge myself intellectually	1	7%	446	8%
To please parents/family	-	0%	3	0%
Did not have a primary/main reason for enrolling	-	0%	13	0%
Required by employer	-	0%	173	3%
Other	3	21%	382	7%
Total	14	100%	5,457	100%

Detailed Summary of Survey Results

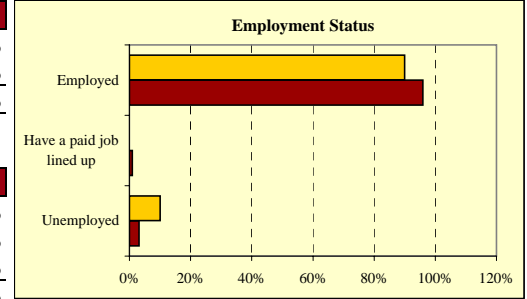
All Institutions

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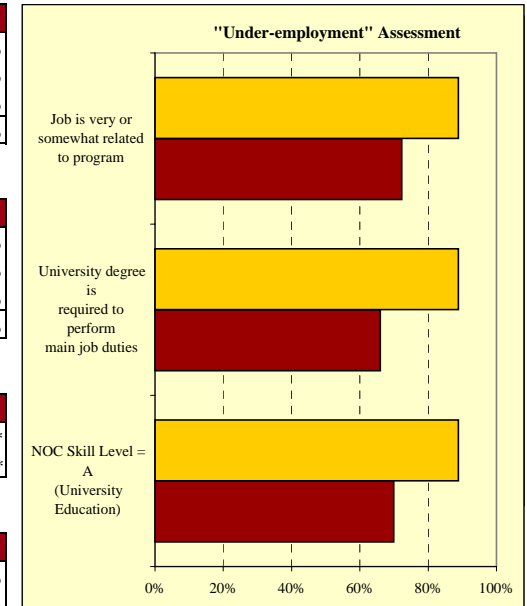
EMPLOYMENT

11. Labour Force Status:	14.0501	SYSTEM
In Labour Force (working or seeking work)	10 83%	4,952 91%
Not in Labour Force	2 17%	497 9%
Grand Total	12 100%	5,449 100%



12. Employment Status of those IN Labour Force:	14.0501	SYSTEM
Employed	9 90%	4,749 96%
Have a paid job lined up	- 0%	49 1%
Unemployed	1 10%	154 3%
Total Labour Force	10 100%	4,952 100%

13. Status of Graduates NOT in Labour Force:	14.0501	SYSTEM
Attending School FT	2 100%	225 45%
Attending School PT	- 0%	27 5%
Other	- 0%	245 49%
Total NOT in Labour Force	2 100%	497 100%



14. Employment Type:	14.0501	SYSTEM
Paid worker	8 89%	4,135 87%
Self-employed	1 11%	379 8%
Both a paid worker and self-employed	- 0%	235 5%
Total Employed	9 100%	4,749 100%

15. Job Characteristics:	14.0501	SYSTEM
I hold more than one job	- 0%*	706 15%*
My main job is full-time (>= 30 hours per week)	8 89%**	4,014 86%**

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

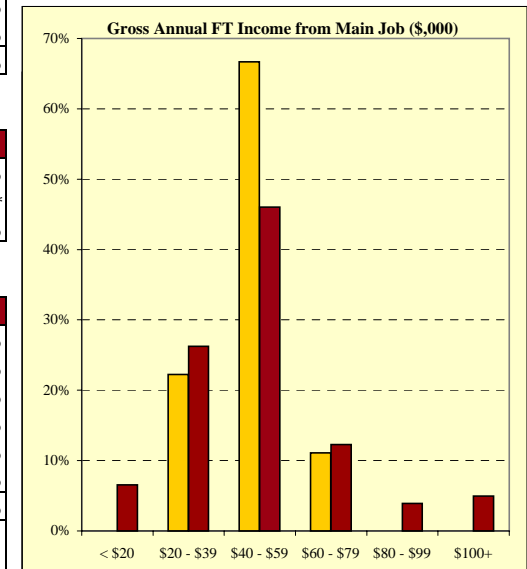
16. How related is your main job to your program?:	14.0501	SYSTEM
Very Related	4 44%	1,940 41%
Somewhat Related	4 44%	1,492 31%
Not Very Related	1 11%	601 13%
Not At All Related	- 0%	712 15%
Total	9 100%	4,745 100%

17. "Under-employment" Assessment:	14.0501	SYSTEM
Job is very or somewhat related to program	8 89%	3,432 72%
University degree is required to perform main job duties	8 89%*	3,000 66%*
NOC Skill Level = A (University Education)	8 89%	3,300 70%

\* of total valid responses

18. Gross Annual Income from Main Job:*	14.0501	SYSTEM
Less than \$20,000	- 0%	284 7%
\$20,000 to \$39,999	2 22%	1,138 26%
\$40,000 to \$59,999	6 67%	1,996 46%
\$60,000 to \$79,999	1 11%	533 12%
\$80,000 to \$99,999	- 0%	169 4%
\$100,000 and Above	- 0%	215 5%
Total	9 100%	4,335 100%
Median Annual Income (full-time)	\$49,500	\$45,680
Average Annual Income (full-time)	\$51,155	\$54,596

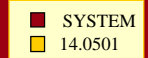
\* where data provided



Detailed Summary of Survey Results

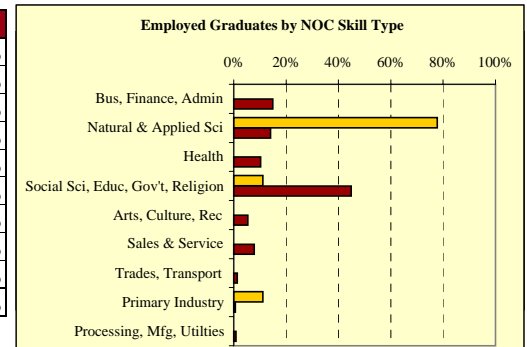
All Institutions

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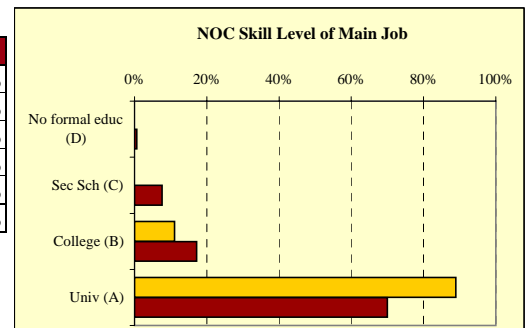


EMPLOYMENT, continued

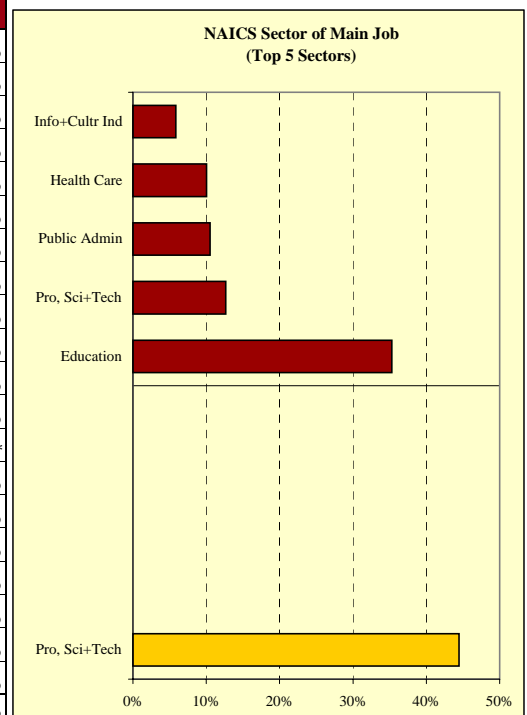
19. NOC Skill Type of Main Job:	14.0501	SYSTEM		
Business, Finance and Administration	-	0%	703	15%
Natural and Applied Sciences and Related	7	78%	659	14%
Health	-	0%	482	10%
Social Sciences, Educ., Gov't Services, Religion	1	11%	2,112	45%
Arts, Culture, Recreation and Sport	-	0%	252	5%
Sales and Service	-	0%	366	8%
Trades, Transport and Eqp. Operators and Related	-	0%	62	1%
Unique to the Primary Industry	1	11%	31	1%
Unique to Processing, Manufacturing and Utilities	-	0%	40	1%
Total	9	100%	4,707	100%



20. NOC Skill Level of Main Job:	14.0501	SYSTEM		
A. University education	8	89%	3,300	70%
B. College education/trade apprenticeship	1	11%	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	9	100%	4,719	100%



21. NAICS Sector of Main Job:	14.0501	SYSTEM		
Agriculture, Forestry, Fishing and Hunting	*	*	48	1%
Mining and Oil and Gas Extraction	*	*	17	0%
Utilities	*	*	20	0%
Construction	*	*	33	1%
Manufacturing	*	*	271	6%
Wholesale Trade	*	*	46	1%
Retail Trade	*	*	157	3%
Transportation and Warehousing	*	*	76	2%
Information and Cultural Industries	*	*	275	6%
Finance and Insurance	*	*	231	5%
Real Estate and Rental and Leasing	*	*	31	1%
Professional, Scientific and Technical Services	4	44%	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	9	100%	4698	100%



\*data not displayed where n < 2

Detailed Summary of Survey Results

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EMPLOYMENT, continued

22a. **Top 10 Full-time Occupations of 14.0501 Graduates:**

			14.0501	
NOC	Skill Level Description		% Employed FT in this Occ.**	Median FT Salary
2131	A	Civil Engineers	22%	\$51,120
2134	A	Chemical Engineers	22%	\$49,500
2148	A	Other Professional Engineers, NEC	22%	\$41,500
*				
*				
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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

22b. **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	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

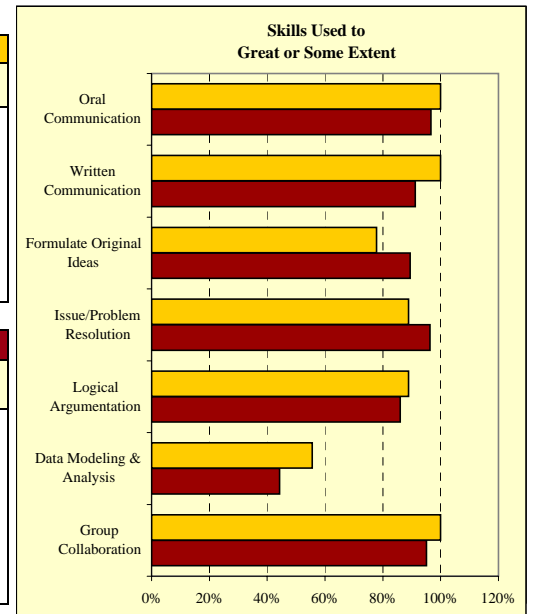
\*data not displayed where n < 2

\*\*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?**

	14.0501				# Resp.
	Great Extent	Some Extent	Small Extent	No Extent	
Oral Communication	78%	22%	0%	0%	9
Written Communication	78%	22%	0%	0%	9
Formulate Original Ideas	22%	56%	11%	11%	9
Issue/Problem Resolution	56%	33%	0%	11%	9
Logical Argumentation	11%	78%	0%	11%	9
Data Modeling & Analysis	22%	33%	33%	11%	9
Group Collaboration	78%	22%	0%	0%	9



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

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All Institutions

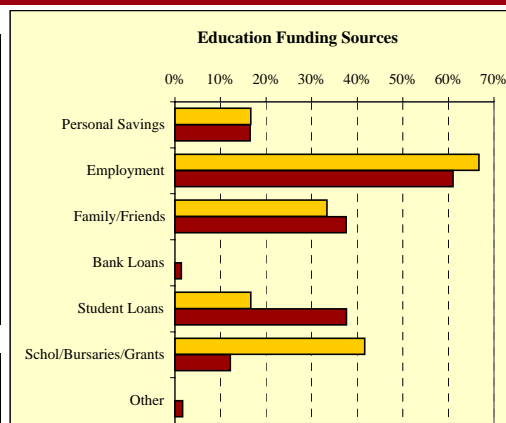
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EDUCATION FINANCING

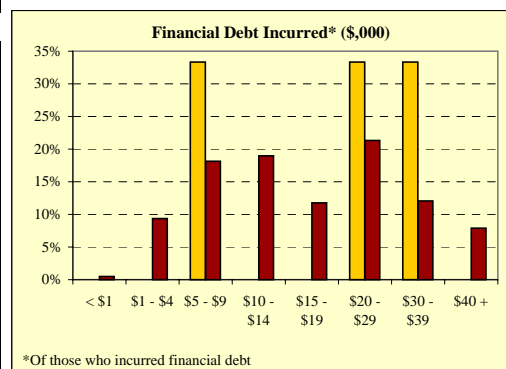
24. Education Funding Sources (2 sources per respondent):	14.0501	SYSTEM
Personal Savings	2 17%*	898 16%*
Employment	8 67%*	3,323 61%*
Family/Friends	4 33%*	2,048 38%*
Bank Loans	- 0%*	75 1%*
Student Loans	2 17%*	2,051 38%*
Scholarships/Bursaries/Grants	5 42%*	661 12%*
Other	- 0%*	90 2%*
Total Respondents	12	5,449

\* Percentage of respondents who identified this source



25. Financial Debt Incurred to Finance Univ. Education:	14.0501	SYSTEM
Incurred any form of financial debt	3 25%*	2,471 47%*
Incurred government-sponsored student loan debt	3 25%*	2,106 40%*

\* Percentage of respondents who provided data



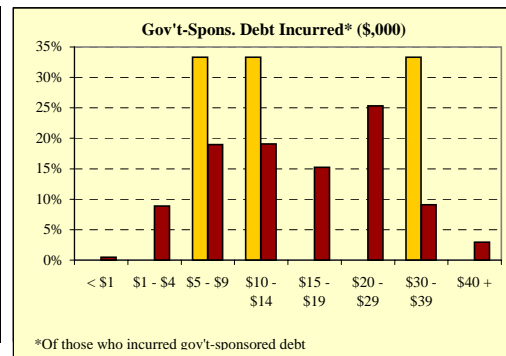
\*Of those who incurred financial debt

26. Financial Debt Amount:*	14.0501	SYSTEM
< \$1,000	- 0%	12 0%
\$1,000 to \$4,999	- 0%	231 9%
\$5,000 to \$9,999	1 33%	448 18%
\$10,000 to \$14,999	- 0%	469 19%
\$15,000 to \$19,999	- 0%	291 12%
\$20,000 to \$29,999	1 33%	527 21%
\$30,000 to \$39,999	1 33%	298 12%
\$40,000 or More	- 0%	195 8%
Total	3	2,471 100%
Median Financial Debt	\$20,000	\$15,000

\*includes only cases where financial debt was incurred

27. Government-Sponsored Student Loan Debt Amount:*	14.0501	SYSTEM
< \$1,000	- 0%	10 0%
\$1,000 to \$4,999	- 0%	187 9%
\$5,000 to \$9,999	1 33%	399 19%
\$10,000 to \$14,999	1 33%	402 19%
\$15,000 to \$19,999	- 0%	321 15%
\$20,000 to \$29,999	- 0%	533 25%
\$30,000 to \$39,999	1 33%	192 9%
\$40,000 or More	- 0%	62 3%
Total	3	2,106 100%
Median Gov't-Sponsored Student Loan Debt	\$12,000	\$15,000

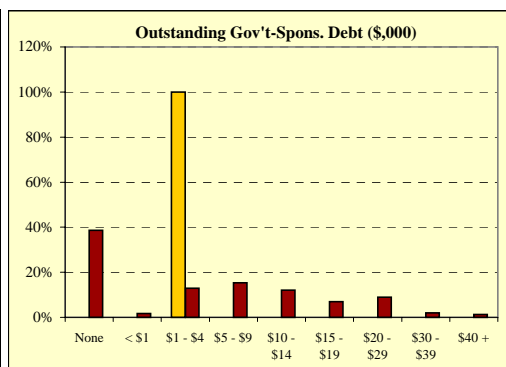
\*includes only cases where government-sponsored debt was incurred



\*Of those who incurred gov't-sponsored debt

28. Outstanding Gov't-Sponsored Loan Debt Amount:*	14.0501	SYSTEM
None - Loan repaid in full	- 0%	747 39%
< \$1,000	- 0%	34 2%
\$1,000 to \$4,999	1 100%	249 13%
\$5,000 to \$9,999	- 0%	296 15%
\$10,000 to \$14,999	- 0%	234 12%
\$15,000 to \$19,999	- 0%	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	1	1,935 100%
Median Gov't-Sponsored Loan Debt Outstanding	\$2,500	\$3,600

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

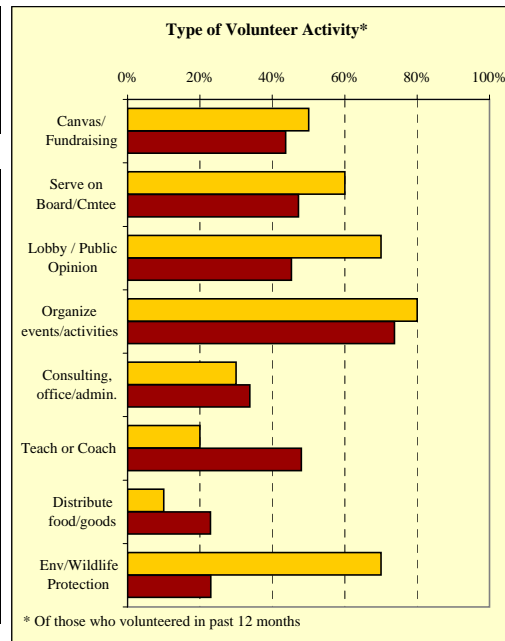


SPECIAL SECTION ON COMMUNITY INVOLVEMENT / VOLUNTEER ACTIVITY

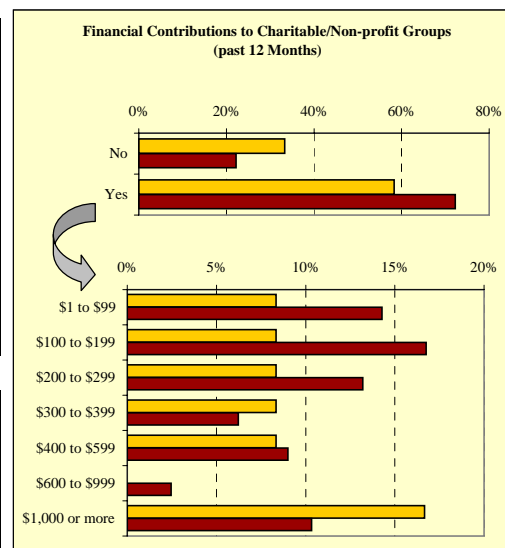
29.	In the past 12 months, have you acted as an unpaid volunteer?	14.0501	SYSTEM
	No	1	9%
	Yes	10	91%
	Volunteer Hours/Week (Median)	1	1

30.	In the past 12 months, as an unpaid volunteer for an organization did you...	14.0501	SYSTEM
	do any canvassing, campaigning or fundraising?	5	50%*
	serve as an unpaid member of a board or committee?	6	60%*
	provide information or help to educate, influence public opinion, or lobby others?	7	70%*
	help to organize/supervise activities/events for an organization?	8	80%*
	do any consulting, executive, office or administrative work?	3	30%*
	teach or coach for an organization?	2	20%*
	collect, serve or deliver food or other goods?	1	10%*
	engage in any activities aimed at protecting the environment or wildlife?	7	70%*

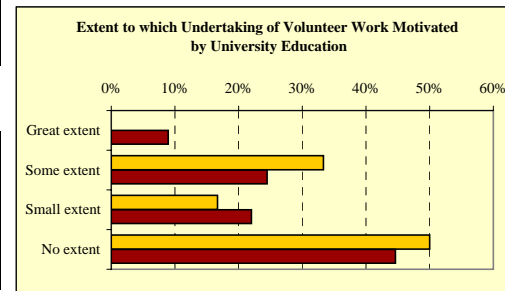
\*percentages are of those who have acted as an unpaid volunteer in the past 12 months



31.	Financial contributions to charitable or non-profit groups in past 12 months	14.0501	SYSTEM
	\$0 (None)	4	33%
	\$1 to \$99	1	8%
	\$100 to \$199	1	8%
	\$200 to \$299	1	8%
	\$300 to \$399	1	8%
	\$400 to \$599	1	8%
	\$600 to \$999	-	0%
	\$1,000 or more	2	17%
	Median Annual Contribution	\$300	\$200



32.	Member or Participant in...	14.0501	SYSTEM
	Union/Professional Association (work-related)	9	75%
	Political organization	2	17%
	Cultural, educational or hobby organization	3	25%
	Sports or recreation organization	5	42%
	Religious-affiliated group	2	17%
	School group, civic, or community association	3	25%
	Other	1	8%



33.	To what extent did your university education motivate you to undertake volunteer work?	14.0501	SYSTEM
	Great extent	-	0%*
	Some extent	4	33%*
	Small extent	2	17%*
	No extent	6	50%*

\*percentages are of those who thought question was applicable