

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

Detailed Summary of Survey Results

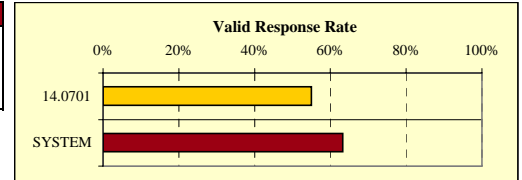
All Institutions

6 Digit CIP: 14.0701: Chemical Engineering

■ SYSTEM  
■ 14.0701

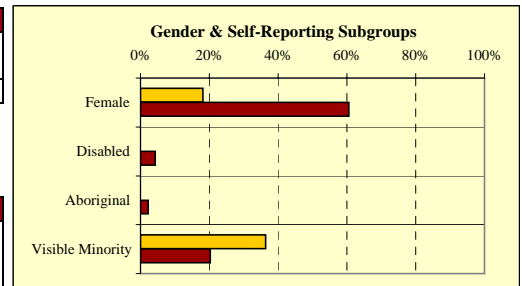
## RESPONSE RATE

1. Survey Response Rate:	14.0701	SYSTEM	
Baccalaureate Graduates Survey Cohort	26	9,531	
Net Frame	20	8,613	
Survey Respondents and Valid Response Rate	11	55%	63%



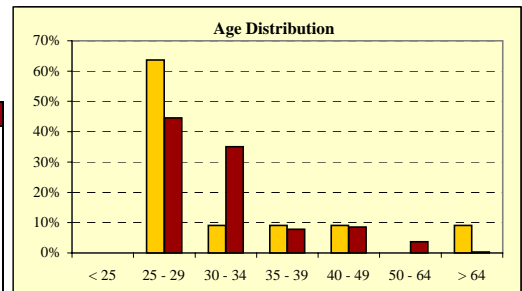
## DEMOGRAPHIC INFORMATION

2. Gender:	14.0701	SYSTEM	
Male	9	82%	2,147 39%
Female	2	18%	3,302 61%
Total	11	100%	5,449 100%

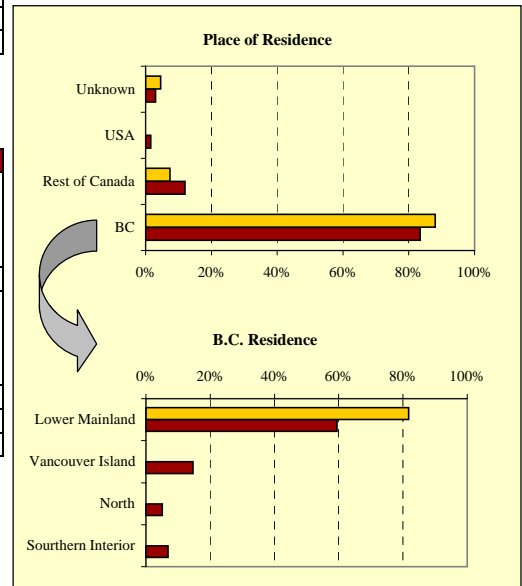


3. Self-Reporting Subgroups:	14.0701	SYSTEM	
Disabled	-	0%	234 4%
Aboriginal	-	0%	124 2%
Visible Minority	4	36%	1,104 20%

4. Age (at time of survey):	14.0701	SYSTEM	
< 25	-	0%	2 0%
25 to 29	7	64%	2,413 45%
30 to 34	1	9%	1,895 35%
35 to 39	1	9%	421 8%
40 to 49	1	9%	461 9%
50 to 64	-	0%	199 4%
> 64	1	9%	19 0%
Unknown	-	0%	39 1%
Total	11	100%	5,410 100%
Mean Age:	35.7	32.4	



5. Place of Residence (at time of survey):	14.0701	SYSTEM	
BC - Lower Mainland	9	82%	3,241 59%
BC - Vancouver Island	-	0%	800 15%
BC - North	-	0%	276 5%
BC - Southern Interior	-	0%	372 7%
B.C. Subtotal	9	82%	4,689 86%
Canada - Alberta	-	0%	193 4%
Canada - Ontario	1	9%	212 4%
Canada - Other	1	9%	91 2%
U.S.A.	-	0%	146 3%
Non-B.C. Subtotal	2	18%	642 12%
Unknown	-	0%	118 2%
Total	11	100%	5,449 100%

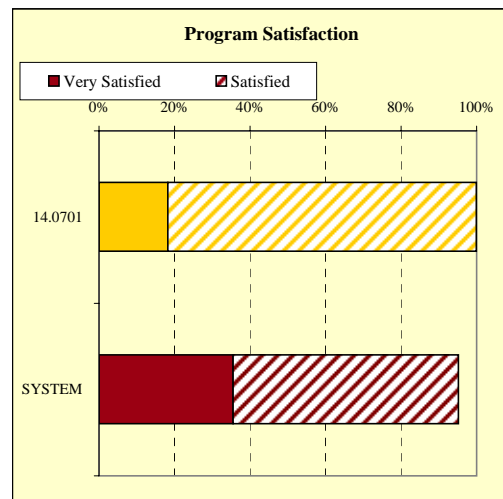


EDUCATION SATISFACTION & PROGRAM EVALUATION

6. Program Satisfaction:	14.0701	SYSTEM
Very Satisfied	2 18%	1,932 36%
Satisfied	9 82%	3,246 60%
Dissatisfied	- 0%	228 4%
Very Dissatisfied	- 0%	30 1%
Total	11 100%	5,436 100%

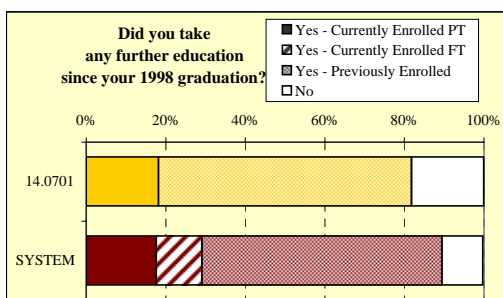
7. Would you select the same program again?	14.0701	SYSTEM
Yes	9 82%	3,866 73%
No, because . . . (multiple response question)	2 0%*	1,420 27%
. . . not enough course variety offered	- 0%*	23 1%*
. . . skills acquired were not very useful	- 0%*	136 7%*
. . . courses were poorly taught	- 0%*	29 2%*
. . . program was too general	- 0%*	149 8%*
. . . courses were not practical	1 50%*	242 13%*
. . . interests have changed	- 0%*	356 20%*
. . . little or no career opportunities	1 50%*	511 28%*
. . . disagree with grading system	- 0%*	2 0%*
. . . disliked institution	- 0%*	6 0%*
. . . other	- 0%*	368 20%*

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



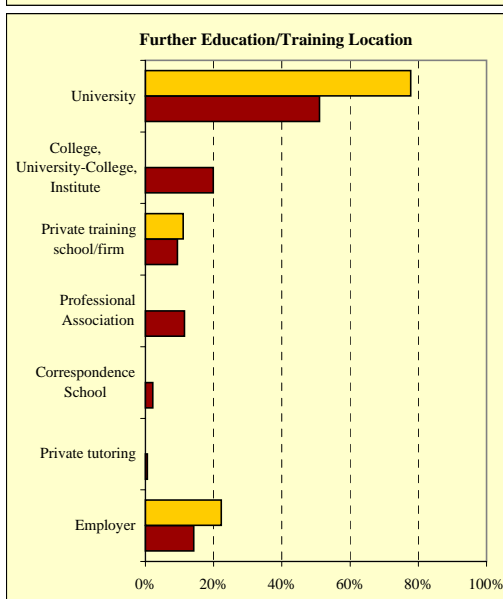
FURTHER EDUCATION

8. Took further education since 1996 graduation?	14.0701	SYSTEM
Yes:	9 82%	4,885 90%
Not currently enrolled	7 64%	3,285 60%
Currently enrolled full-time	- 0%	628 12%
Currently enrolled part-time	2 18%	961 18%
No	2 18%	564 10%
Total	11 100%	5,449 100%



9. Further education/training location (multiple resp.):*	14.0701	SYSTEM
University	7 78%*	2,494 51%*
College, University-College, Institute	- 0%*	972 20%*
Private training school/firm	1 11%*	457 9%*
Professional Association	- 0%*	557 11%*
Correspondence School	- 0%*	105 2%*
Private Tutoring	- 0%*	29 1%*
Employer	2 22%*	691 14%*
Other	- 0%*	163 3%*
Total Respondents	9	4,885

\* Percent of respondents



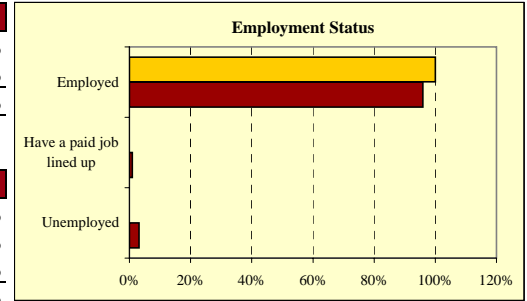
10. Main Reason for Further Education:	14.0701	SYSTEM
Pursue another Bachelor degree	- 0%	315 6%
Pursue Masters studies	4 40%	566 10%
Pursue Doctoral studies	- 0%	138 3%
Career / job / employment related	3 30%	3,421 63%
Challenge myself intellectually	- 0%	446 8%
To please parents/family	1 10%	3 0%
Did not have a primary/main reason for enrolling	- 0%	13 0%
Required by employer	2 20%	173 3%
Other	- 0%	382 7%
Total	10 100%	5,457 100%

**Detailed Summary of Survey Results**  
**All Institutions**  
**6 Digit CIP: 14.0701: Chemical Engineering**

■ SYSTEM  
■ 14.0701

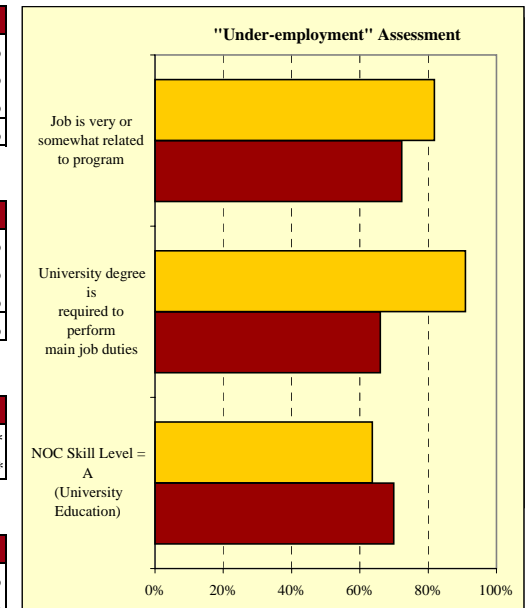
**EMPLOYMENT**

11. <b>Labour Force Status:</b>	14.0701		SYSTEM	
In Labour Force (working or seeking work)	11	100%	4,952	91%
Not in Labour Force	-	0%	497	9%
<b>Grand Total</b>	<b>11</b>	<b>100%</b>	<b>5,449</b>	<b>100%</b>



12. <b>Employment Status of those IN Labour Force:</b>	14.0701		SYSTEM	
Employed	11	100%	4,749	96%
Have a paid job lined up	-	0%	49	1%
Unemployed	-	0%	154	3%
<b>Total Labour Force</b>	<b>11</b>	<b>100%</b>	<b>4,952</b>	<b>100%</b>

13. <b>Status of Graduates NOT in Labour Force:</b>	14.0701		SYSTEM	
Attending School FT	N/A		225	45%
Attending School PT	N/A		27	5%
Other	N/A		245	49%
<b>Total NOT in Labour Force</b>	<b>-</b>	<b></b>	<b>497</b>	<b>100%</b>



14. <b>Employment Type:</b>	14.0701		SYSTEM	
Paid worker	11	100%	4,135	87%
Self-employed	-	0%	379	8%
Both a paid worker and self-employed	-	0%	235	5%
<b>Total Employed</b>	<b>11</b>	<b>100%</b>	<b>4,749</b>	<b>100%</b>

15. <b>Job Characteristics:</b>	14.0701		SYSTEM	
I hold more than one job	1	9%*	706	15%*
My main job is full-time (>= 30 hours per week)	11	100%**	4,014	86%**

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

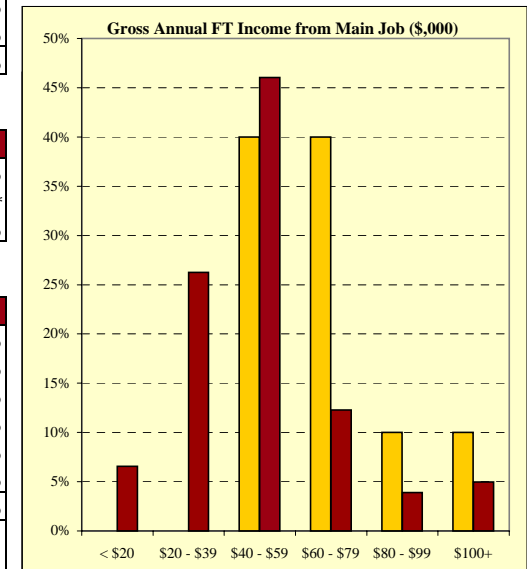
16. <b>How related is your main job to your program?</b>	14.0701		SYSTEM	
Very Related	6	55%	1,940	41%
Somewhat Related	3	27%	1,492	31%
Not Very Related	2	18%	601	13%
Not At All Related	-	0%	712	15%
<b>Total</b>	<b>11</b>	<b>100%</b>	<b>4,745</b>	<b>100%</b>

17. <b>"Under-employment" Assessment:</b>	14.0701		SYSTEM	
Job is very or somewhat related to program	9	82%	3,432	72%
University degree is required to perform main job duties	10	91%*	3,000	66%*
NOC Skill Level = A (University Education)	7	64%*	3,300	70%*

\* of total valid responses

18. <b>Gross Annual Income from Main Job:*</b>	14.0701		SYSTEM	
Less than \$20,000	-	0%	284	7%
\$20,000 to \$39,999	-	0%	1,138	26%
\$40,000 to \$59,999	4	40%	1,996	46%
\$60,000 to \$79,999	4	40%	533	12%
\$80,000 to \$99,999	1	10%	169	4%
\$100,000 and Above	1	10%	215	5%
<b>Total</b>	<b>10</b>	<b>100%</b>	<b>4,335</b>	<b>100%</b>
Median Annual Income (full-time)	\$63,500		\$45,680	
Average Annual Income (full-time)	\$68,755		\$54,596	

\* where data provided



Detailed Summary of Survey Results

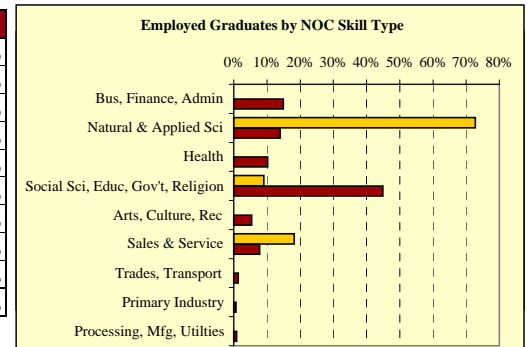
All Institutions

6 Digit CIP: 14.0701: Chemical Engineering

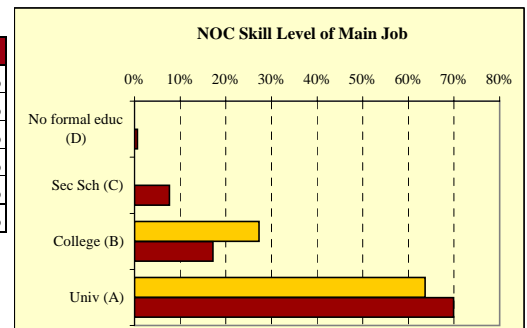
■ SYSTEM  
■ 14.0701

EMPLOYMENT, continued

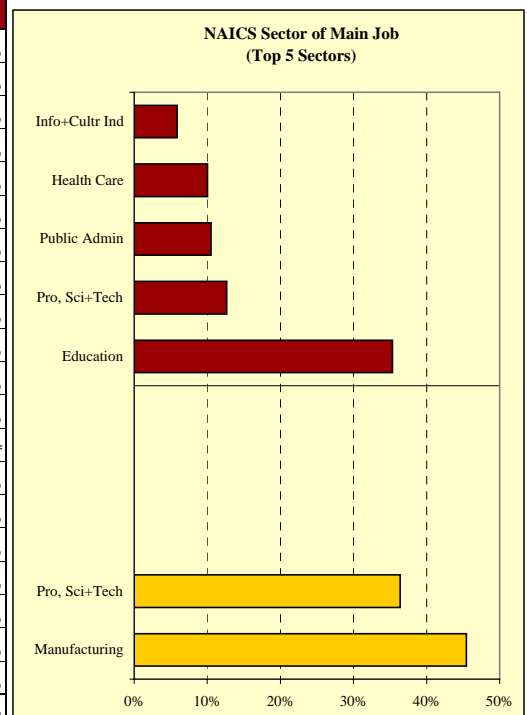
19. NOC Skill Type of Main Job:	14.0701	SYSTEM		
Business, Finance and Administration	-	0%	703	15%
Natural and Applied Sciences and Related	8	73%	659	14%
Health	-	0%	482	10%
Social Sciences, Educ., Gov't Services, Religion	1	9%	2,112	45%
Arts, Culture, Recreation and Sport	-	0%	252	5%
Sales and Service	2	18%	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	11	100%	4,707	100%



20. NOC Skill Level of Main Job:	14.0701	SYSTEM		
A. University education	7	64%	3,300	70%
B. College education/trade apprenticeship	3	27%	811	17%
C. Secondary school + job-specific training	-	0%	361	8%
D. No formal education	-	0%	29	1%
No Skill Level assigned (management)	1	9%	218	5%
Total	11	100%	4,719	100%



21. NAICS Sector of Main Job:	14.0701	SYSTEM		
Agriculture, Forestry, Fishing and Hunting	*	*	48	1%
Mining and Oil and Gas Extraction	*	*	17	0%
Utilities	*	*	20	0%
Construction	*	*	33	1%
Manufacturing	5	45%	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	36%	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	11	100%	4698	100%



\*data not displayed where n < 2

Detailed Summary of Survey Results

All Institutions

6 Digit CIP: 14.0701: Chemical Engineering

■ SYSTEM  
■ 14.0701

EMPLOYMENT, continued

22a. **Top 10 Full-time Occupations of 14.0701 Graduates:**

			14.0701	
NOC	Skill Level Description		% Employed FT in this Occ.**	Median FT Salary
2134	A	Chemical Engineers	55%	\$75,000
*				
*				
*				
*				
*				
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*				
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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

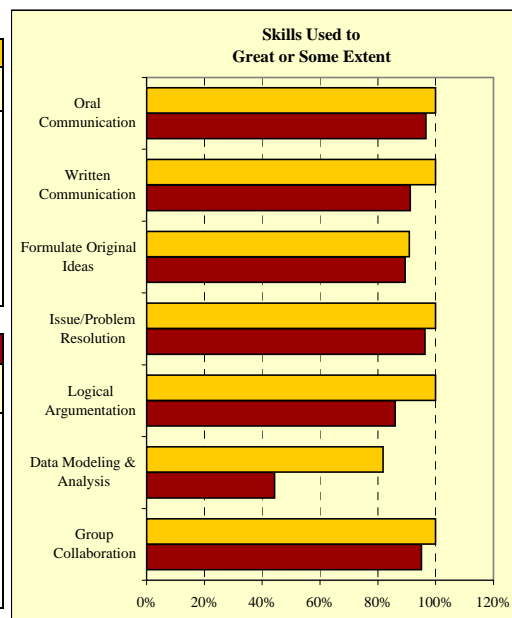
SKILLS USED IN EMPLOYMENT

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

	14.0701				# Resp.
	Great Extent	Some Extent	Small Extent	No Extent	
Oral Communication	91%	9%	0%	0%	11
Written Communication	91%	9%	0%	0%	11
Formulate Original Ideas	55%	36%	9%	0%	11
Issue/Problem Resolution	91%	9%	0%	0%	11
Logical Argumentation	55%	45%	0%	0%	11
Data Modeling & Analysis	45%	36%	18%	0%	11
Group Collaboration	100%	0%	0%	0%	11

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



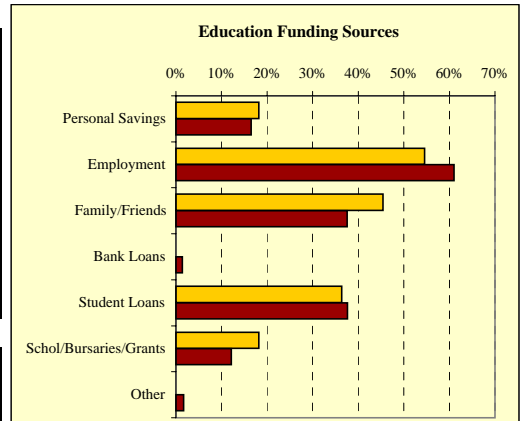
**Detailed Summary of Survey Results**  
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■ SYSTEM  
■ 14.0701

**EDUCATION FINANCING**

24. Education Funding Sources (2 sources per respondent):	14.0701		SYSTEM	
Personal Savings	2	18%*	898	16%*
Employment	6	55%*	3,323	61%*
Family/Friends	5	45%*	2,048	38%*
Bank Loans	-	0%*	75	1%*
Student Loans	4	36%*	2,051	38%*
Scholarships/Bursaries/Grants	2	18%*	661	12%*
Other	-	0%*	90	2%*
<b>Total Respondents</b>	<b>11</b>		<b>5,449</b>	

\* Percentage of respondents who identified this source

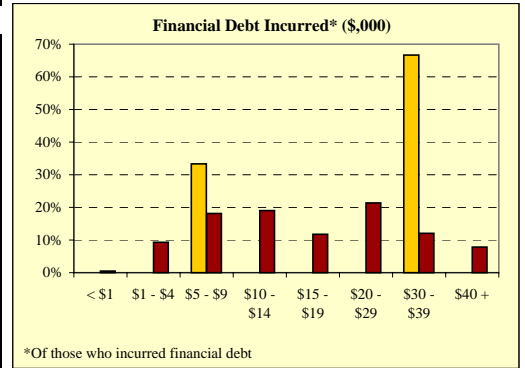


25. Financial Debt Incurred to Finance Univ. Education:	14.0701		SYSTEM	
Incurred any form of financial debt	3	30%*	2,471	47%*
Incurred government-sponsored student loan debt	3	30%*	2,106	40%*

\* Percentage of respondents who provided data

26. Financial Debt Amount:*	14.0701		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	-	0%	527	21%
\$30,000 to \$39,999	2	67%	298	12%
\$40,000 or More	-	0%	195	8%
<b>Total</b>	<b>3</b>	<b>100%</b>	<b>2,471</b>	<b>100%</b>
<b>Median Financial Debt</b>	<b>\$30,000</b>		<b>\$15,000</b>	

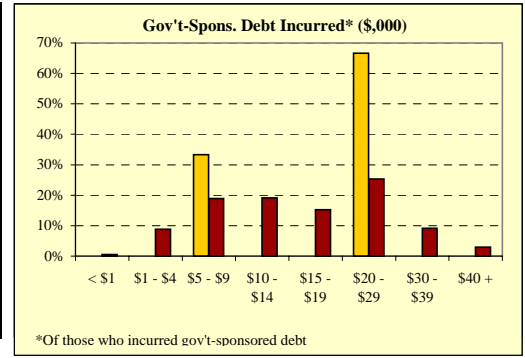
\*includes only cases where financial debt was incurred



\*Of those who incurred financial debt

27. Government-Sponsored Student Loan Debt Amount:*	14.0701		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	-	0%	402	19%
\$15,000 to \$19,999	-	0%	321	15%
\$20,000 to \$29,999	2	67%	533	25%
\$30,000 to \$39,999	-	0%	192	9%
\$40,000 or More	-	0%	62	3%
<b>Total</b>	<b>3</b>	<b>100%</b>	<b>2,106</b>	<b>100%</b>
<b>Median Gov't-Sponsored Student Loan Debt</b>	<b>\$24,000</b>		<b>\$15,000</b>	

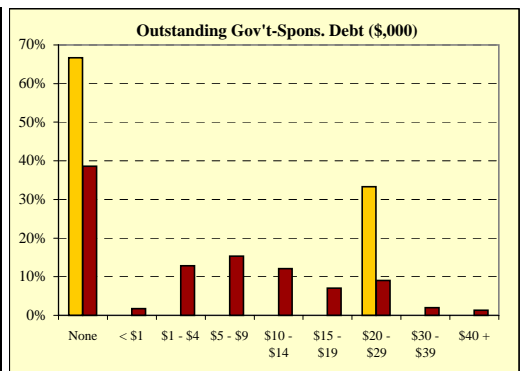
\*includes only cases where government-sponsored debt was incurred



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

28. Outstanding Gov't-Sponsored Loan Debt Amount:*	14.0701		SYSTEM	
None - Loan repaid in full	2	67%	747	39%
< \$1,000	-	0%	34	2%
\$1,000 to \$4,999	-	0%	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	1	33%	174	9%
\$30,000 to \$39,999	-	0%	39	2%
\$40,000 or More	-	0%	26	1%
<b>Total</b>	<b>3</b>	<b>100%</b>	<b>1,935</b>	<b>100%</b>
<b>Median Gov't-Sponsored Loan Debt Outstanding</b>	<b>\$0</b>		<b>\$3,600</b>	

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



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All Institutions

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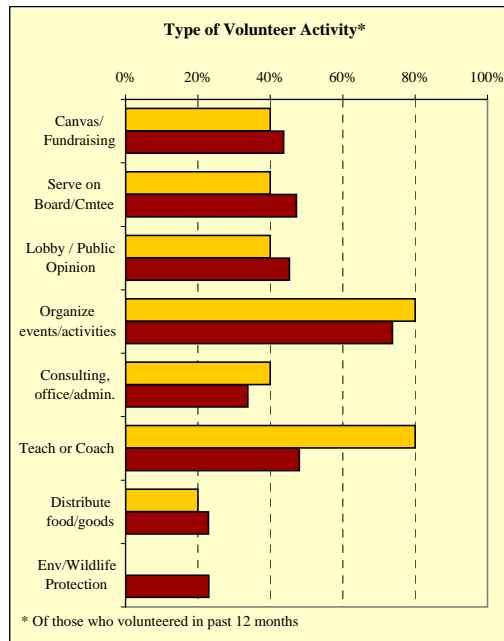
SYSTEM  
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SPECIAL SECTION ON COMMUNITY INVOLVEMENT / VOLUNTEER ACTIVITY

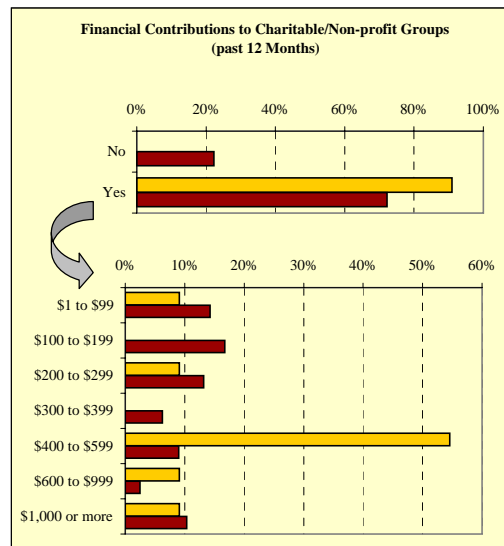
29.	In the past 12 months, have you acted as an unpaid volunteer?	14.0701	SYSTEM
	No	6 55%	2,237 41%
	Yes	5 45%	3,162 59%
	Volunteer Hours/Week (Median)	2	1

30.	In the past 12 months, as an unpaid volunteer for an organization did you...	14.0701	SYSTEM
	do any canvassing, campaigning or fundraising?	2 40%*	1,382 44%*
	serve as an unpaid member of a board or committee?	2 40%*	1,492 47%*
	provide information or help to educate, influence public opinion, or lobby others?	2 40%*	1,431 45%*
	help to organize/supervise activities/events for an organization?	4 80%*	2,331 74%*
	do any consulting, executive, office or administrative work?	2 40%*	1,067 34%*
	teach or coach for an organization?	4 80%*	1,517 48%*
	collect, serve or deliver food or other goods?	1 20%*	723 23%*
	engage in any activities aimed at protecting the environment or wildlife?	- 0%*	728 23%*

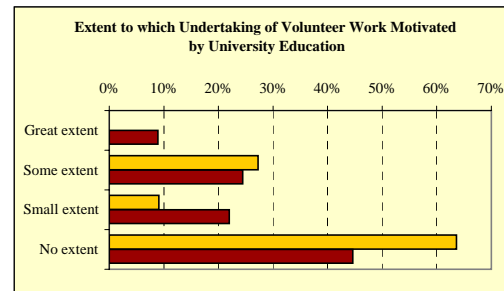
\*percentages are of those who have acted as an unpaid volunteer in the past 12 months



31.	Financial contributions to charitable or non-profit groups in past 12 months	14.0701	SYSTEM
	\$0 (None)	- 0%	1,212 22%
	\$1 to \$99	1 9%	778 14%
	\$100 to \$199	- 0%	913 17%
	\$200 to \$299	1 9%	719 13%
	\$300 to \$399	- 0%	339 6%
	\$400 to \$599	6 55%	491 9%
	\$600 to \$999	1 9%	134 2%
	\$1,000 or more	1 9%	563 10%
	Median Annual Contribution	\$500	\$200



32.	Member or Participant in...	14.0701	SYSTEM
	Union/Professional Association (work-related)	9 82%	3,621 66%
	Political organization	- 0%	283 5%
	Cultural, educational or hobby organization	4 36%	1,776 33%
	Sports or recreation organization	6 55%	2,369 43%
	Religious-affiliated group	3 27%	1,020 19%
	School group, civic, or community association	4 36%	1,449 27%
	Other	1 9%	470 9%



33.	To what extent did your university education motivate you to undertake volunteer work?	14.0701	SYSTEM
	Great extent	- 0%*	474 9%*
	Some extent	3 27%*	1,298 24%*
	Small extent	1 9%*	1,168 22%*
	No extent	7 64%*	2,367 45%*

\*percentages are of those who thought question was applicable