

# B.C. University Student Outcomes 2005 Survey of 2000 Baccalaureate Graduates

Detailed Summary of Survey Results

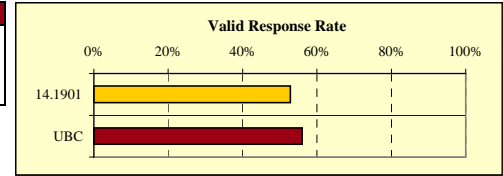
University of British Columbia

6 Digit CIP: 14.1901: Mechanical Engineering

■ UBC  
■ 14.1901

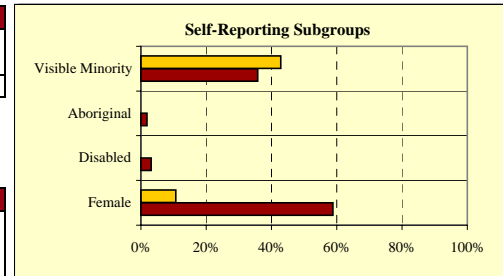
## RESPONSE RATE

1. Survey Response Rate:	14.1901	UBC	
2000 Baccalaureate Graduates Survey Cohort	71	5,198	
Net Frame	53	4,005	
Survey Respondents and Valid Response Rate	28	53%	2,244 56%



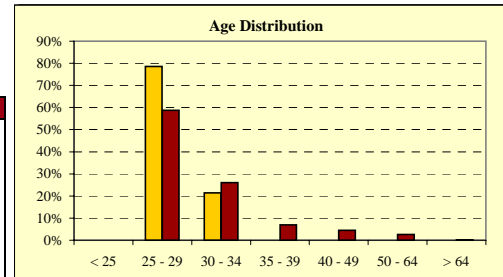
## DEMOGRAPHIC INFORMATION

2. Gender:	14.1901	UBC	
Male	25	89%	925 41%
Female	3	11%	1,319 59%
Total	28	100%	2,244 100%

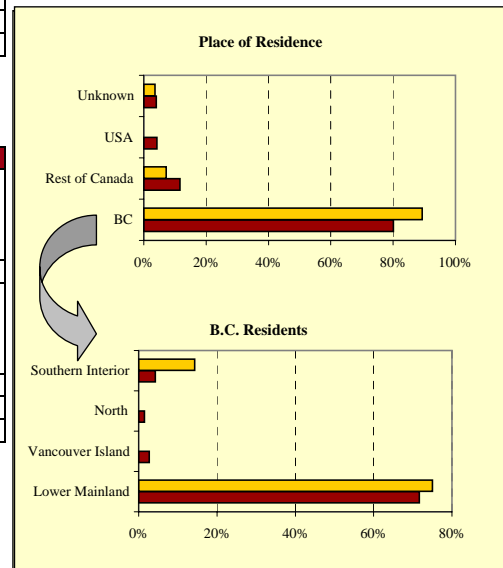


3. Self-Reporting Subgroups:	14.1901	UBC	
Disabled	-	0%	70 3%
Aboriginal	-	0%	42 2%
Visible Minority	12	43%	803 36%

4. Age (at time of survey):	14.1901	UBC	
< 25	-	0%	1 0%
25 to 29	22	79%	1,319 59%
30 to 34	6	21%	583 26%
35 to 39	-	0%	157 7%
40 to 49	-	0%	102 5%
50 to 64	-	0%	60 3%
> 64	-	0%	2 0%
Unknown	-	0%	20 1%
Total	28	100%	2,244 100%
Mean Age:	29.0	30.9	

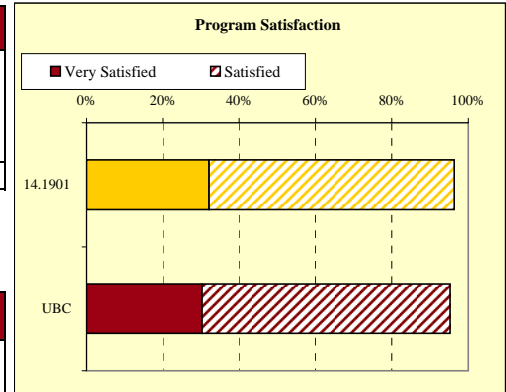


5. Place of Residence (at time of survey):	14.1901	UBC	
BC - Lower Mainland	21	75%	1,609 72%
BC - Vancouver Island	-	0%	61 3%
BC - North	-	0%	33 1%
BC - Southern Interior	4	14%	95 4%
BC Subtotal	25	89%	1,798 80%
Canada - Alberta	1	4%	83 4%
Canada - Ontario	1	4%	125 6%
Canada - Other	-	0%	52 2%
U.S.A.	-	0%	95 4%
Non-BC Subtotal	2	7%	355 16%
Unknown	1	4%	91 4%
Total	28	100%	2,244 100%

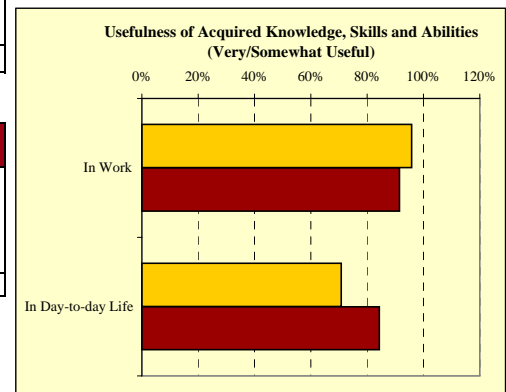


**EDUCATION EVALUATION**

8. Program Satisfaction:	14.1901		UBC	
Very Satisfied	9	32%	675	30%
Satisfied	18	64%	1,453	65%
Dissatisfied	1	4%	88	4%
Very Dissatisfied	-	0%	17	1%
Total	28	100%	2,233	100%

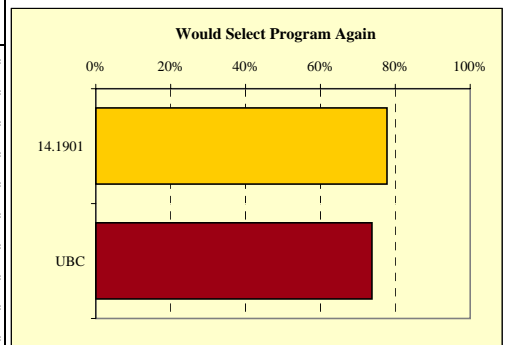


6. Usefulness of Knowledge, Skills, and Abilities Acquired at University in Work:	14.1901		UBC	
Very Useful	7	29%	913	47%
Somewhat Useful	16	67%	847	44%
Not Very Useful	1	4%	120	6%
Not at All Useful	-	0%	44	2%
Total	24	100%	1,924	100%



7. Usefulness of Knowledge, Skills, and Abilities Acquired at University in Day-to-day Life:	14.1901		UBC	
Very Useful	3	13%	532	28%
Somewhat Useful	14	58%	1,087	57%
Not Very Useful	7	29%	250	13%
Not at All Useful	-	0%	51	3%
Total	24	100%	1,920	100%

9. Would you select the same program again?	14.1901		UBC	
Yes	21	78%	1,606	74%
No, because . . . (multiple response question)	6		571	
. . . interests have changed	3	38%*	201	28%*
. . . courses were not practical	-	0%*	115	16%*
. . . little or no career opportunities	4	50%*	228	32%*
. . . not enough course variety	-	0%*	8	1%*
. . . skills acquired were not very useful	-	0%*	34	5%*
. . . courses were poorly taught	-	0%*	23	3%*
. . . program was too general	1	13%*	62	9%*
. . . did not agree with grading system	-	0%*	6	1%*
. . . did not like institution	-	0%*	16	2%*
. . . other	-	0%*	26	4%*

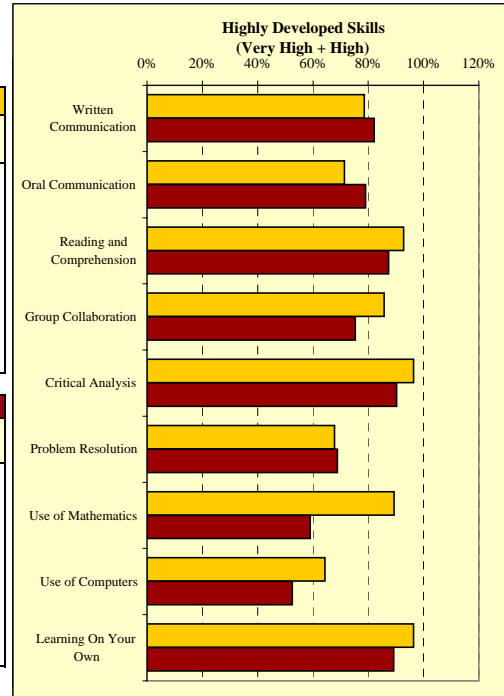


\* Percent of total responses, among those who would not take program again

**SKILL DEVELOPMENT**

**14a.**

To what degree did university help you develop the following skills?	14.1901				# Resp.
	Very High	High	Low	Very Low	
Written Communication	11%	68%	21%	0%	28
Oral Communication	11%	61%	29%	0%	28
Reading and Comprehension	21%	71%	7%	0%	28
Group Collaboration	11%	75%	14%	0%	28
Critical Analysis	57%	39%	4%	0%	28
Problem Resolution	25%	43%	32%	0%	28
Use of Mathematics Appropriate to Field	29%	61%	11%	0%	28
Use of Computers Appropriate to Field	21%	43%	29%	7%	28
Learning On Your Own	32%	64%	4%	0%	28



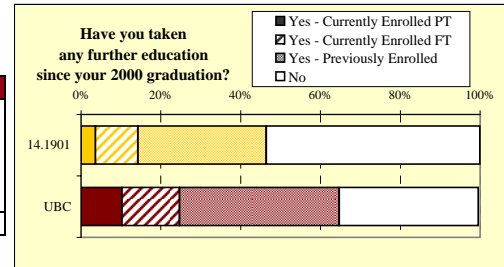
**14b.**

To what degree did university help you develop the following skills?	UBC				# Resp.
	Very High	High	Low	Very Low	
Written Communication	22%	60%	16%	2%	2,179
Oral Communication	18%	61%	20%	1%	2,194
Reading and Comprehension	25%	63%	12%	1%	2,178
Group Collaboration	19%	57%	23%	1%	2,160
Critical Analysis	32%	58%	9%	1%	2,215
Problem Resolution	11%	58%	29%	2%	2,160
Use of Mathematics Appropriate to Field	16%	43%	34%	6%	1,747
Use of Computers Appropriate to Field	12%	40%	40%	8%	1,947
Learning On Your Own	28%	61%	10%	1%	2,189

**FURTHER EDUCATION**

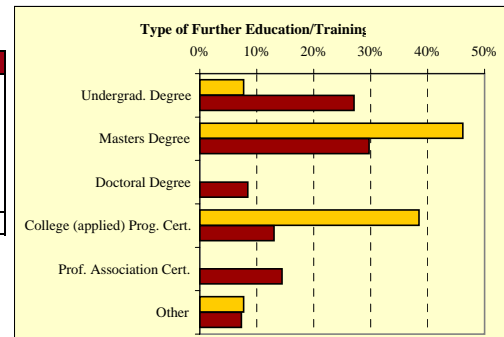
**15.**

Took further formal education since 2000 graduation	14.1901	UBC
Yes:	13	1,462
Not currently enrolled	9	898
Currently enrolled full-time	3	325
Currently enrolled part-time	1	230
No	15	782
Total	28	2,244



**16.**

Type of Formal Post-Secondary Education	14.1901	UBC
Undergraduate Degree	1	391
Masters Degree	6	429
Doctoral Degree	-	122
College (applied) Program Certification	5	188
Professional Association Certification	-	208
Other	1	105
Total Respondents	27	1,443

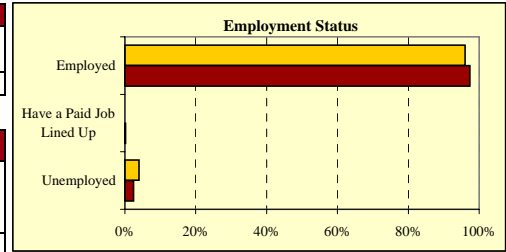


**Detailed Summary of Survey Results**  
**University of British Columbia**  
**6 Digit CIP: 14.1901: Mechanical Engineering**

■ UBC  
■ 14.1901

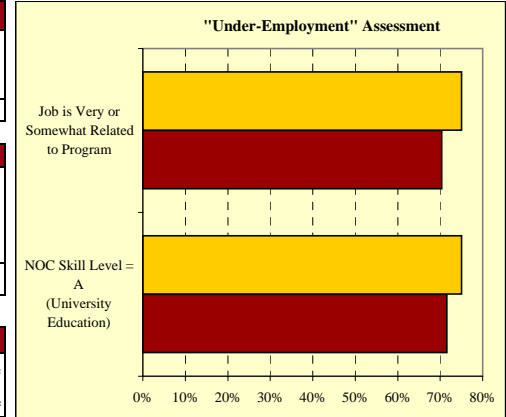
**EMPLOYMENT**

17. Labour Force Status:	14.1901	UBC
In Labour Force (working or seeking work)	25 89%	1,978 88%
Not in Labour Force	3 11%	265 12%
Grand Total	28 100%	2,243 100%



18. Employment Status of those IN Labour Force:	14.1901	UBC
Employed	24 96%	1,926 97%
Have a Paid Job Lined Up	- 0%	3 0%
Unemployed	1 4%	49 2%
Total Labour Force	25 100%	1,978 100%

19. Status of Graduates NOT in Labour Force:	14.1901	UBC
Attending School FT	2 67%	171 65%
Attending School PT	- 0%	6 2%
Other	1 33%	88 33%
Total NOT in Labour Force	3 100%	265 100%

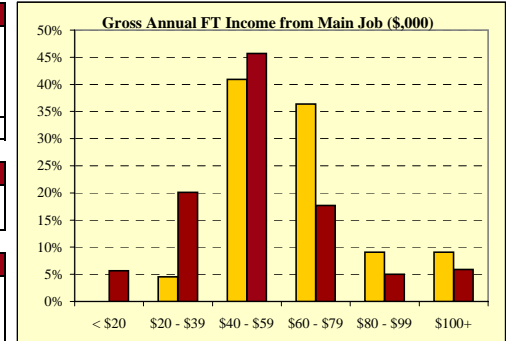


20. Employment Type:	14.1901	UBC
Paid worker	23 96%	1,706 89%
Self-employed	- 0%	153 8%
Both a paid worker and self-employed	1 4%	67 3%
Total Employed	24 100%	1,926 100%

21. Job Characteristics:	14.1901	UBC
I hold more than one job	1 4%*	243 13%*
My main job is full-time (>= 30 hours per week)	23 96%**	1,655 88%**

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

22. How related is your main job to your program?	14.1901	UBC
Very Related	12 50%	844 44%
Somewhat Related	6 25%	511 27%
Not Very Related	4 17%	248 13%
Not At All Related	2 8%	322 17%
Total	24 100%	1,925 100%

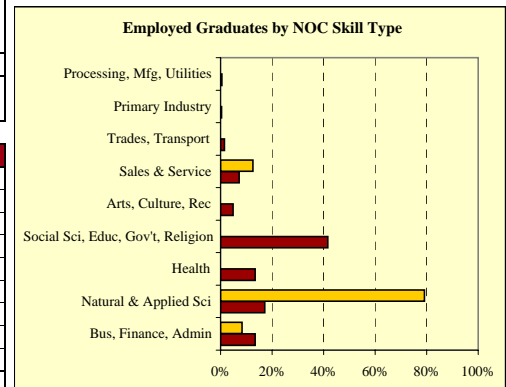


23. "Under-employment" Assessment:	14.1901	UBC
Job is very or somewhat related to program	18 75%	1,355 70%
NOC Skill Level = A (University Education)	18 75%	1,376 72%

\* of total valid responses

24. Gross Annual Income from Main Job:*	14.1901	UBC
Less than \$20,000	- 0%	99 6%
\$20,000 to \$39,999	1 5%	350 20%
\$40,000 to \$59,999	9 41%	796 46%
\$60,000 to \$79,999	8 36%	308 18%
\$80,000 to \$99,999	2 9%	87 5%
\$100,000 and Above	2 9%	103 6%
Total	22 100%	1,743 100%
Median Annual Income (full-time)	\$65,000	\$50,000
Average Annual Income (full-time)	\$87,929	\$56,514

\* where data provided



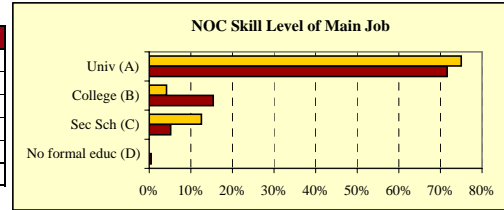
25. NOC Skill Type of Main Job:	14.1901	UBC
Business, Finance and Administration	2 8%	257 13%
Natural and Applied Sciences and Related	19 79%	328 17%
Health	- 0%	256 13%
Social Sciences, Educ., Gov't Services, Religion	- 0%	795 42%
Arts, Culture, Recreation and Sport	- 0%	93 5%
Sales and Service	3 13%	138 7%
Trades, Transport and Eqp. Operators and Related	- 0%	28 1%
Unique to the Primary Industry	- 0%	7 0%
Unique to Processing, Manufacturing and Utilities	- 0%	9 0%
Total	24 100%	1,911 100%

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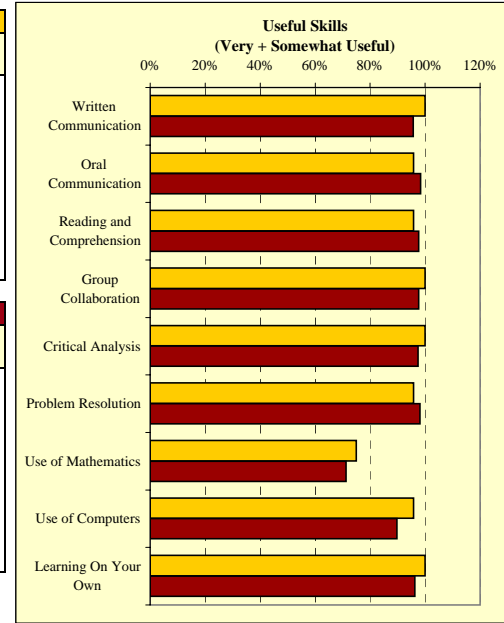
■ UBC  
■ 14.1901

**EMPLOYMENT, continued**

26. NOC Skill Level of Main Job:	14.1901		UBC	
A. University education	18	75%	1,376	72%
B. College education/trade apprenticeship	1	4%	296	15%
C. Secondary school + job-specific training	3	13%	99	5%
D. No formal education	-	0%	9	0%
No skill level assigned (management)	2	8%	142	7%
<b>Total</b>	<b>24</b>	<b>100%</b>	<b>1,922</b>	<b>100%</b>



27a. How useful are the following skills and abilities in doing your main job?	14.1901				# Resp.
	Very Useful	Somewhat Useful	Not Very Useful	Not at all Useful	
Written Communication	67%	33%	0%	0%	24
Oral Communication	79%	17%	4%	0%	24
Reading and Comprehension	75%	21%	4%	0%	24
Group Collaboration	63%	38%	0%	0%	24
Critical Analysis	79%	21%	0%	0%	24
Problem Resolution	71%	25%	4%	0%	24
Use of Mathematics Appropriate to Field	21%	54%	21%	4%	24
Use of Computers Appropriate to Field	63%	33%	4%	0%	24
Learning On Your Own	79%	21%	0%	0%	24



27b. How useful are the following skills and abilities in doing your main job?	UBC				# Resp.
	Very Useful	Somewhat Useful	Not Very Useful	Not at all Useful	
Written Communication	76%	20%	3%	2%	1,925
Oral Communication	87%	12%	1%	0%	1,925
Reading and Comprehension	80%	18%	2%	0%	1,925
Group Collaboration	81%	16%	2%	1%	1,924
Critical Analysis	81%	16%	2%	0%	1,925
Problem Resolution	82%	17%	2%	0%	1,925
Use of Mathematics Appropriate to Field	31%	40%	15%	14%	1,915
Use of Computers Appropriate to Field	59%	31%	5%	5%	1,924
Learning On Your Own	74%	22%	3%	1%	1,925

28a. 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		58.3%	\$58,000
*				
*				
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\*data not displayed where n < 5

\*\*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 University of British Columbia:			UBC	
NOC	NOC Skill Level Description		% Employed FT in this Occ.**	Median FT Salary
4141	A Secondary School Teachers		12.2%	\$46,000
4142	A Elem & Kindergarten Teacher		8.3%	\$45,500
4112	A Lawyers & Quebec Notaries		5.3%	\$75,000
3152	A Registered Nurses		2.3%	\$61,000
2174	A Computer Programmers/Interactive Media Developers		2.2%	\$55,000
2131	A Civil Engineers		1.8%	\$55,000
3112	A General Practitioners		1.6%	\$47,000
1111	A Financial Auditors & Acnts		1.6%	\$51,000
3131	A Pharmacists		1.5%	\$80,000
2171	A Information Systems Analysts and Consultants		1.3%	\$64,000

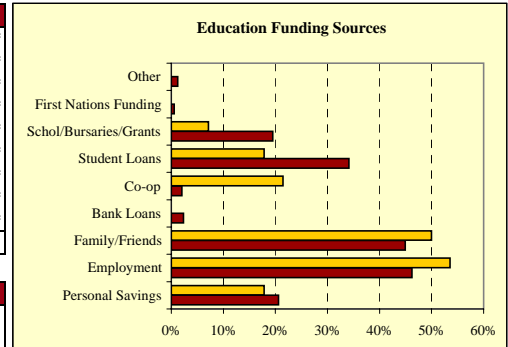
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**EDUCATION FINANCING**

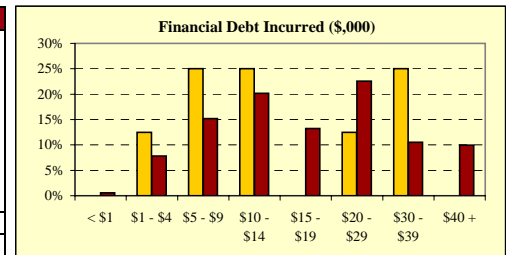
29. Education Funding Sources (2 sources per respondent):	14.1901		UBC	
Personal Savings	5	18%*	462	21%*
Employment	15	54%*	1,037	46%*
Family/Friends	14	50%*	1,008	45%*
Bank Loans	-	0%*	53	2%*
Student Loans	5	18%*	765	34%*
Scholarships/Bursaries/Grants	2	7%*	437	19%*
Co-op	6	21%*	45	2%*
First Nations Funding	-	0%*	12	1%*
Other	-	0%*	28	1%*
<b>Total Respondents</b>	<b>28</b>		<b>2,244</b>	

\* Percentage of respondents who identified this source



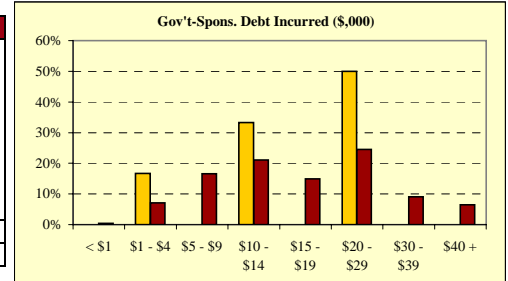
30. Financial Debt Incurred to Finance Univ. Education:	14.1901		UBC	
Incurred any form of financial debt	8	29%*	922	41%
Incurred government-sponsored student loan debt	6	21%*	792	35%

\* Percentage of respondents who provided data



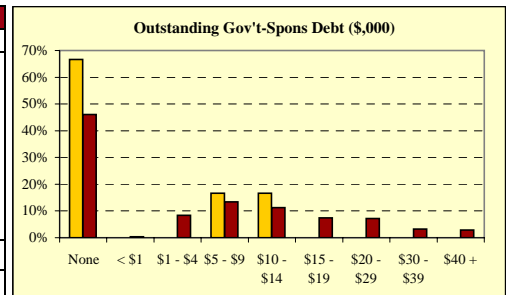
31. Financial Debt Amount:*	14.1901		UBC	
< \$1,000	-	0%	5	1%
\$1,000 to \$4,999	1	13%	72	8%
\$5,000 to \$9,999	2	25%	140	15%
\$10,000 to \$14,999	2	25%	186	20%
\$15,000 to \$19,999	-	0%	122	13%
\$20,000 to \$29,999	1	13%	208	23%
\$30,000 to \$39,999	2	25%	97	11%
\$40,000 or More	-	0%	92	10%
<b>Total</b>	<b>8</b>	<b>100%</b>	<b>922</b>	<b>100%</b>
<b>Median Financial Debt</b>	<b>\$12,000</b>		<b>\$15,000</b>	

\*includes only cases where financial debt was incurred



32. Government-Sponsored Student Loan Debt Amount:*	14.1901		UBC	
< \$1,000	-	0%	3	0%
\$1,000 to \$4,999	1	17%	56	7%
\$5,000 to \$9,999	-	0%	131	17%
\$10,000 to \$14,999	2	33%	167	21%
\$15,000 to \$19,999	-	0%	118	15%
\$20,000 to \$29,999	3	50%	194	24%
\$30,000 to \$39,999	-	0%	72	9%
\$40,000 or More	-	0%	51	6%
<b>Total</b>	<b>6</b>	<b>100%</b>	<b>792</b>	<b>100%</b>
<b>Median Gov't-Sponsored Student Loan Debt</b>	<b>\$19,000</b>		<b>\$15,000</b>	

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



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

**SPECIAL SECTION ON CITIZENSHIP**

34. To what extent did your university experience lead you to develop and use effective leadership skills?	14.1901		UBC	
To a great extent	4	14%	517	23%
To some extent	13	46%	1,105	49%
To a small extent	11	39%	466	21%
To no extent at all	-	0%	154	7%
<b>Total</b>	<b>28</b>	<b>100%</b>	<b>2,242</b>	<b>100%</b>

35. To what extent did your university experience lead you to appreciate your rights, responsibilities and privileges as a citizen?	14.1901		UBC	
To a great extent	2	7%	541	24%
To some extent	16	57%	1,064	47%
To a small extent	9	32%	453	20%
To no extent at all	1	4%	178	8%
<b>Total</b>	<b>28</b>	<b>100%</b>	<b>2,236</b>	<b>100%</b>

36. In the past 12 months, as an unpaid volunteer, have you...	14.1901		UBC	
worked for any type of organization?	14	52%	1,248	56%
done any canvassing, campaigning or fundraising?	5	36%	524	42%
done any coaching, mentoring or tutoring?	7	50%	791	64%
engaged in any activities aimed at bringing about social or environmental change?	4	29%	594	48%
helped organize or supervise activities or events for an organization?	7	50%	847	68%
done any consulting, executive, office or administrative work?	5	36%	411	33%
collected, served or delivered food or other goods?	2	14%	329	26%
been involved in the identification and description of practical community problems?	1	7%	310	25%
<b>Average hours volunteered over last 12 months *</b>	<b>54</b>		<b>117</b>	

\*includes only cases where volunteer activity was reported

37. To what extent did your entire university experience – including extra-curricular and social activities – motivate you to participate in volunteering? *	14.1901		UBC	
To a great extent	-	0%	169	14%
To some extent	5	36%	415	33%
To a small extent	5	36%	332	27%
To no extent at all	4	29%	329	26%
<b>Total</b>	<b>14</b>	<b>100%</b>	<b>1,245</b>	<b>100%</b>

\*includes only cases where volunteer activity was reported

38. Are you a member or participant in...	14.1901		UBC	
a work-related organization such as a union or professional association?	16	57%	1,427	64%
a political organization?	-	0%	137	6%
a cultural, education or hobby organization?	4	15%	721	32%
a sports or recreation organization?	16	57%	930	41%
a religious-affiliated group?	5	18%	455	20%
a school group, a neighbourhood, civic or community association?	1	4%	486	22%
<b>Avg. charitable contributions over last 12 months *</b>	<b>\$436</b>		<b>\$687</b>	

\*includes only cases where financial contributions were reported

39. To what extent did your entire university experience – including extra-curricular and social activities – motivate you to contribute financially to charitable or non-profit organizations?	14.1901		UBC	
To a great extent	-	0%	81	5%
To some extent	5	22%	385	22%
To a small extent	4	17%	492	28%
To no extent at all	14	61%	806	46%
<b>Total</b>	<b>23</b>	<b>100%</b>	<b>1,764</b>	<b>100%</b>

