

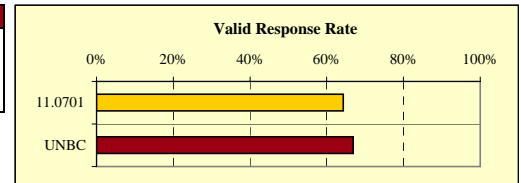
# B.C. University Student Outcomes 2002 Survey of 2000 Baccalaureate Graduates

Detailed Summary of Survey Results  
University of Northern British Columbia  
6 Digit CIP: 11.0701: Computer Science

■ UNBC  
■ 11.0701

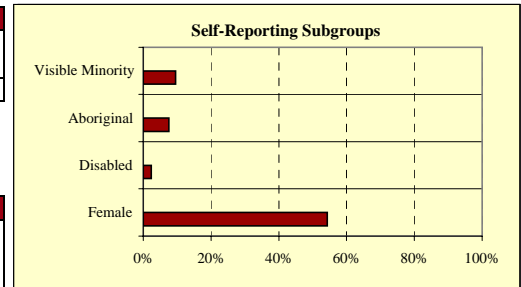
## RESPONSE RATE

1. Survey Response Rate:	11.0701	UNBC
2000 Baccalaureate Graduates Survey Cohort	14	464
Net Frame	14	438
Survey Respondents and Valid Response Rate	9	293
	64%	67%



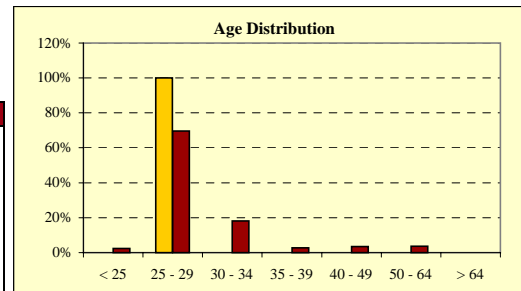
## DEMOGRAPHIC INFORMATION

2. Gender:	11.0701	UNBC
Male	9	134
Female	-	159
Total	9	293
	100%	100%

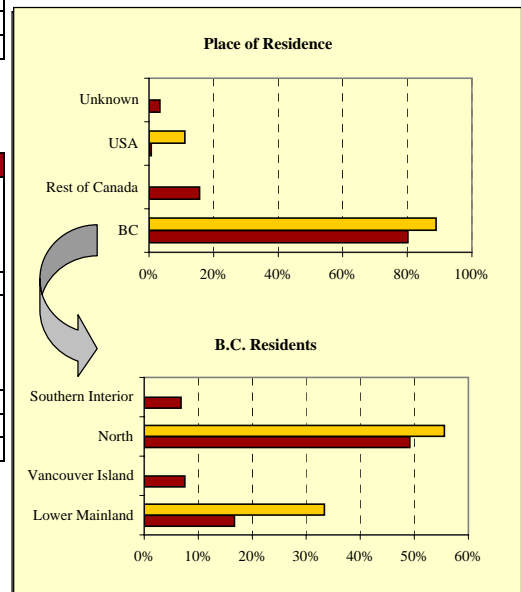


3. Self-Reporting Subgroups:	11.0701	UNBC
Disabled	-	7
Aboriginal	-	22
Visible Minority	-	28
	0%	2%
	0%	8%
	0%	10%

4. Age (at time of survey):	11.0701	UNBC
< 25	-	7
25 to 29	9	204
30 to 34	-	53
35 to 39	-	8
40 to 49	-	10
50 to 64	-	11
> 64	-	-
Unknown	-	-
Total	9	293
Mean Age:	26.7	29.2



5. Place of Residence (at time of survey):	11.0701	UNBC
BC - Lower Mainland	3	49
BC - Vancouver Island	-	22
BC - North	5	144
BC - Southern Interior	-	20
BC Subtotal	8	235
Canada - Alberta	-	22
Canada - Ontario	-	13
Canada - Other	-	11
U.S.A.	1	2
Non-BC Subtotal	1	48
Unknown	-	10
Total	9	293
	100%	100%

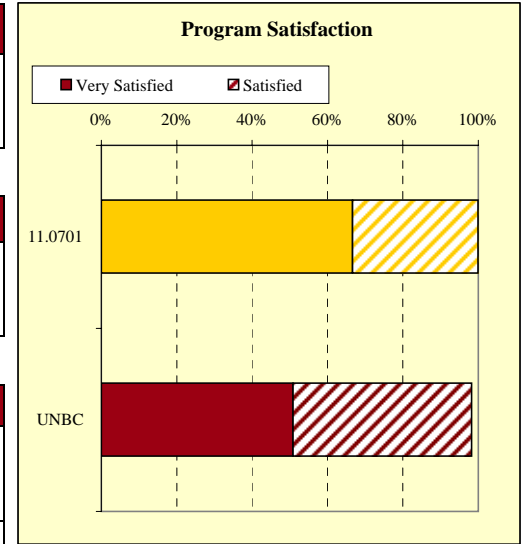


**EDUCATION EVALUATION AND SKILL DEVELOPMENT**

6. Usefulness of Knowledge, Skills, and Abilities Acquired at University in Work:	11.0701		UNBC	
Very Useful	2	25%	114	50%
Somewhat Useful	6	75%	96	42%
Not Very Useful	-	0%	13	6%
Not at All Useful	-	0%	7	3%

7. Usefulness of Knowledge, Skills, and Abilities Acquired at University in Day-to-day Life:	11.0701		UNBC	
Very Useful	2	25%	67	29%
Somewhat Useful	6	75%	143	62%
Not Very Useful	-	0%	19	8%
Not at All Useful	-	0%	2	1%

8. Program Satisfaction:	11.0701		UNBC	
Very Satisfied	6	67%	149	51%
Satisfied	3	33%	139	47%
Dissatisfied	-	0%	4	1%
Very Dissatisfied	-	0%	1	0%
Total	9	100%	293	100%



9. Would you select the same program again?	11.0701		UNBC	
Yes	8	100%	223	79%
No, because . . . (multiple response question)	-		60	
... interests have changed	N/A		11	14%*
... courses were not practical	N/A		10	13%*
... little or no career opportunities	N/A		27	35%*
... other	N/A		29	38%*

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

10. Quality of Instruction:	11.0701		UNBC	
Very Good	5	56%	114	39%
Good	4	44%	170	58%
Poor	-	0%	8	3%
Very Poor	-	0%	-	0%
Total	9	100%	292	100%

11. Comprehensiveness of Core Courses:	11.0701		UNBC	
Very Good	4	44%	81	29%
Good	5	56%	177	63%
Poor	-	0%	20	7%
Very Poor	-	0%	3	1%
Total	9	100%	281	100%

12. Course Availability:	11.0701		UNBC	
Encountered course availability problems	3	33%	136	46%

13. Degree Completion:	11.0701		UNBC	
Took longer than expected to complete degree	8	89%	125	43%
<b>Top 4 reasons for prolonged degree completion (multiple response question):</b>				
Personal or family reasons	-	0%*	8	5%*
Financial reasons / work	-	0%*	15	9%*
Change of major/program/specialization	-	0%*	10	6%*
Involvement in co-op program extended completion time	4	36%*	18	11%*
Other reason(s)	7	64%*	117	70%*

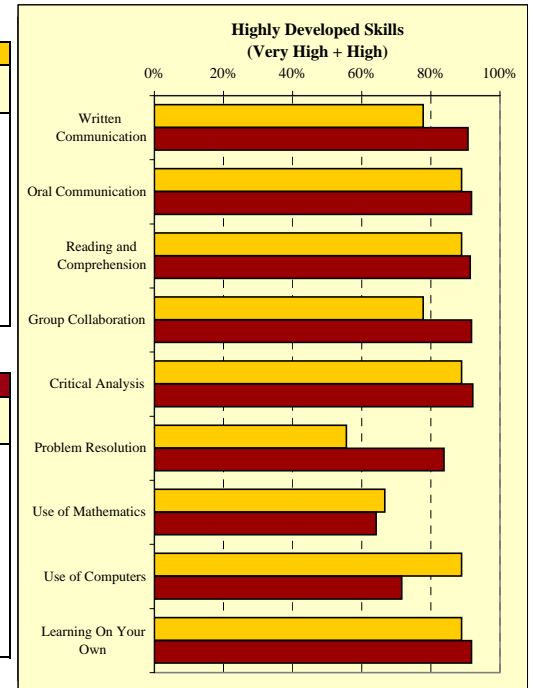
\* Percent of total responses, among those who took longer than expected to complete degree



**SKILL DEVELOPMENT**

**14a.**

To what degree did university help you develop the following skills?	11.0701				# Resp.
	Very High	High	Low	Very Low	
	Written Communication	33%	44%	22%	
Oral Communication	0%	89%	11%	0%	9
Reading and Comprehension	56%	33%	11%	0%	9
Group Collaboration	0%	78%	22%	0%	9
Critical Analysis	78%	11%	11%	0%	9
Problem Resolution	11%	44%	44%	0%	9
Use of Mathematics Appropriate to Field	33%	33%	22%	11%	9
Use of Computers Appropriate to Field	56%	33%	11%	0%	9
Learning On Your Own	56%	33%	0%	11%	9



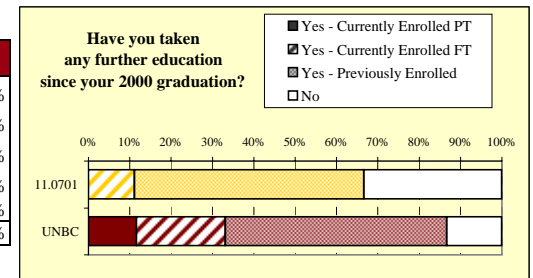
**14b.**

To what degree did university help you develop the following skills?	UNBC				# Resp.
	Very High	High	Low	Very Low	
	Written Communication	45%	46%	8%	
Oral Communication	40%	52%	8%	1%	291
Reading and Comprehension	41%	51%	7%	2%	291
Group Collaboration	38%	54%	7%	1%	291
Critical Analysis	50%	42%	6%	1%	293
Problem Resolution	25%	59%	16%	1%	290
Use of Mathematics Appropriate to Field	17%	47%	26%	10%	265
Use of Computers Appropriate to Field	23%	49%	24%	4%	281
Learning On Your Own	45%	47%	7%	1%	291

**FURTHER EDUCATION**

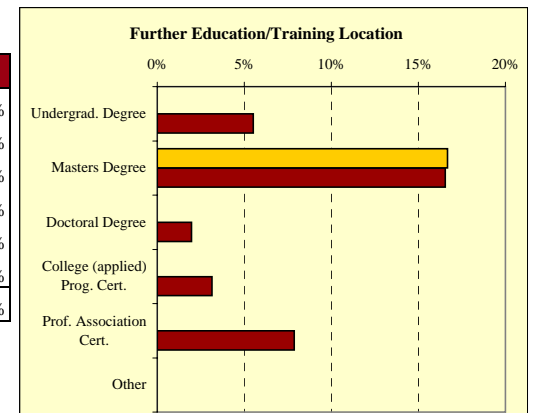
**15. Took further education since 2000 graduation**

	11.0701	UNBC
Yes:	6	254
Not currently enrolled	5	157
Currently enrolled full-time	1	63
Currently enrolled part-time	-	34
No	3	39
Total	9	293

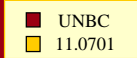


**16. Type of Formal Post-Secondary Education**

	11.0701	UNBC
Undergraduate Degree	-	14
Masters Degree	1	42
Doctoral Degree	-	5
College (applied) Program Certification	-	8
Professional Association Certification	-	20
Other	-	-
Total Respondents	6	254

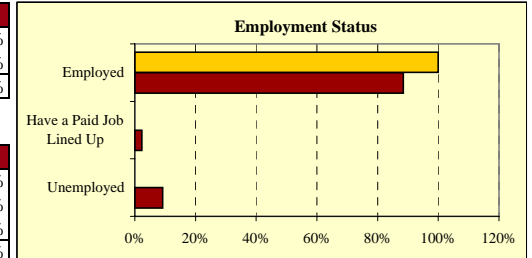


**Detailed Summary of Survey Results**  
**University of Northern British Columbia**  
**6 Digit CIP: 11.0701: Computer Science**



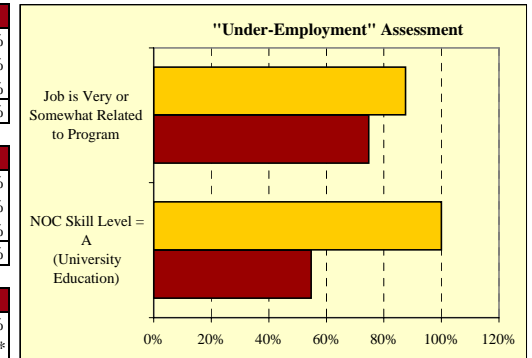
**EMPLOYMENT**

17. <b>Labour Force Status:</b>	11.0701	UNBC
In Labour Force (working or seeking work)	8 89%	261 89%
Not in Labour Force	1 11%	32 11%
Grand Total	9 100%	293 100%



18. <b>Employment Status of those IN Labour Force:</b>	11.0701	UNBC
Employed	8 100%	231 89%
Have a Paid Job Lined Up	- 0%	6 2%
Unemployed	- 0%	24 9%
Total Labour Force	8 100%	261 100%

19. <b>Status of Graduates NOT in Labour Force:</b>	11.0701	UNBC
Attending School FT	- 0%	23 72%
Attending School PT	- 0%	- 0%
Other	1 100%	9 28%
Total NOT in Labour Force	1 100%	32 100%

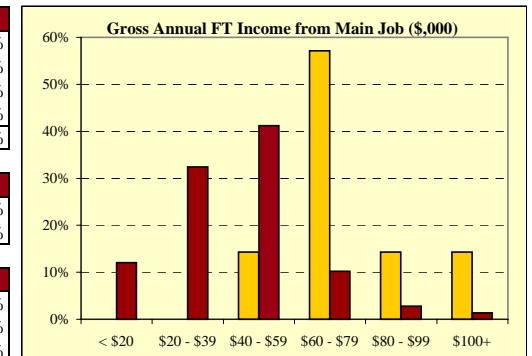


20. <b>Employment Type:</b>	11.0701	UNBC
Paid worker	7 88%	205 89%
Self-employed	1 13%	13 6%
Both a paid worker and self-employed	- 0%	13 6%
Total Employed	8 100%	231 100%

21. <b>Job Characteristics:</b>	11.0701	UNBC
I hold more than one job	- 0%*	41 18%
My main job is full-time (>= 30 hours per week)	7 88%**	190 83%**

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

22. <b>How related is your main job to your program?</b>	11.0701	UNBC
Very Related	4 50%	104 45%
Somewhat Related	3 38%	68 30%
Not Very Related	1 13%	21 9%
Not At All Related	- 0%	37 16%
Total	8 100%	230 100%

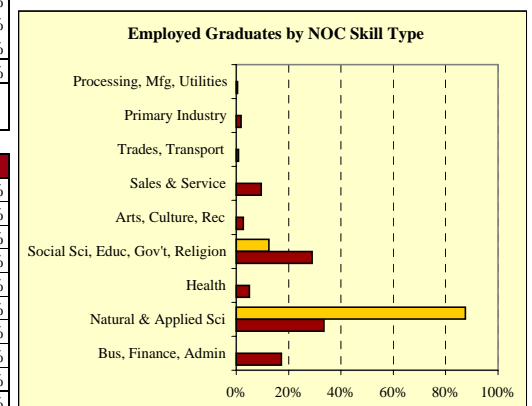


23. <b>"Under-employment" Assessment:</b>	11.0701	UNBC
Job is very or somewhat related to program	7 88%	172 75%
NOC Skill Level = A (University Education)	8 100%	121 55%

\* of total valid responses

24. <b>Gross Annual Income from Main Job:*</b>	11.0701	UNBC
Less than \$20,000	- 0%	26 12%
\$20,000 to \$39,999	- 0%	70 32%
\$40,000 to \$59,999	1 14%	89 41%
\$60,000 to \$79,999	4 57%	22 10%
\$80,000 to \$99,999	1 14%	6 3%
\$100,000 and Above	1 14%	3 1%
Total	7 100%	216 100%
Median Annual Income (full-time)	\$72,000	\$42,950
Average Annual Income (full-time)	\$77,271	\$45,978

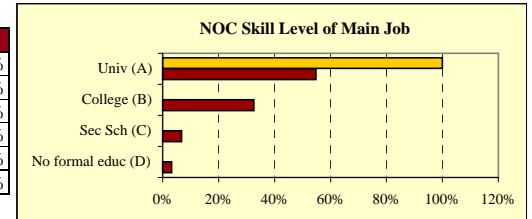
\* where data provided



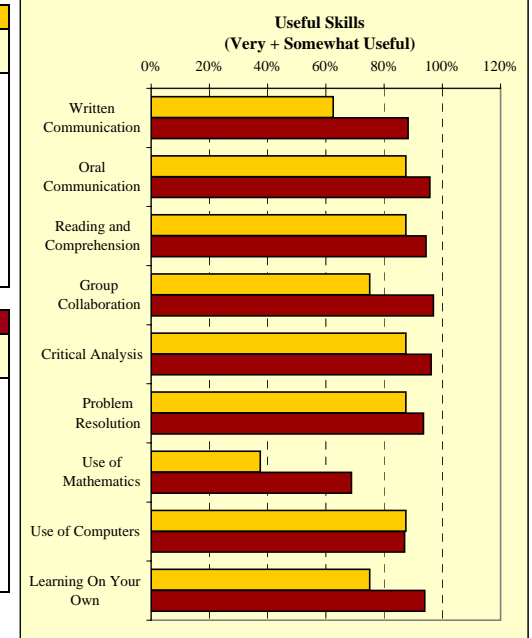
25. <b>NOC Skill Type of Main Job:</b>	11.0701	UNBC
Business, Finance and Administration	- 0%	38 17%
Natural and Applied Sciences and Related	7 88%	74 33%
Health	- 0%	11 5%
Social Sciences, Educ., Gov't Services, Religion	1 13%	64 29%
Arts, Culture, Recreation and Sport	- 0%	6 3%
Sales and Service	- 0%	21 10%
Trades, Transport and Eqp. Operators and Related	- 0%	2 1%
Unique to the Primary Industry	- 0%	4 2%
Unique to Processing, Manufacturing and Utilities	- 0%	1 0%
Total	8 100%	221 100%

**EMPLOYMENT, continued**

26. NOC Skill Level of Main Job:	11.0701		UNBC	
A. University education	8	100%	121	55%
B. College education/trade apprenticeship	-	0%	72	33%
C. Secondary school + job-specific training	-	0%	15	7%
D. No formal education	-	0%	7	3%
No skill level assigned (management)	-	0%	6	3%
<b>Total</b>	<b>8</b>	<b>100%</b>	<b>221</b>	<b>100%</b>



27a. How useful are the following skills and abilities in doing your main job?	11.0701				
	Very Useful	Somewhat Useful	Not Very Useful	Not at all Useful	# Resp.
Written Communication	50%	13%	38%	0%	8
Oral Communication	50%	38%	13%	0%	8
Reading and Comprehension	25%	63%	11%	0%	8
Group Collaboration	75%	0%	13%	13%	8
Critical Analysis	63%	25%	0%	13%	8
Problem Resolution	63%	25%	0%	13%	8
Use of Mathematics Appropriate to Field	13%	25%	38%	25%	8
Use of Computers Appropriate to Field	75%	13%	0%	13%	8
Learning On Your Own	75%	0%	13%	13%	8



27b. How useful are the following skills and abilities in doing your main job?	UNBC				
	Very Useful	Somewhat Useful	Not Very Useful	Not at all Useful	# Resp.
Written Communication	67%	21%	7%	5%	229
Oral Communication	72%	23%	3%	2%	231
Reading and Comprehension	69%	26%	3%	1%	230
Group Collaboration	78%	19%	3%	0%	231
Critical Analysis	74%	23%	2%	2%	231
Problem Resolution	64%	29%	6%	1%	230
Use of Mathematics Appropriate to Field	33%	36%	18%	13%	215
Use of Computers Appropriate to Field	52%	35%	7%	6%	224
Learning On Your Own	70%	24%	3%	3%	230

28a. Top 10 Full-time Occupations of 11.0701 Graduates:	11.0701		
NOC Skill Level Description	% Employed FT in this Occ.**	Median FT Salary	
2173 A Software Engineers	38%	\$70,000	
2174 A Computer Programmers/Interactive Media Developers	25%	\$83,592	
* * * * *			

\*data not displayed where n < 2

\*\*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 Northern British Columbia:	UNBC		
NOC Skill Level Description	% Employed FT in this Occ.**	Median FT Salary	
2122 A Forestry Professionals	8%	\$47,500	
2223 B Forestry Technologists & Technicians	6%	\$45,000	
4212 B Community & Social Srvc Workers	4%	\$35,200	
1111 A Financial Auditors & Accnts	4%	\$51,000	
2121 A Biologists & Related Scientists	4%	\$41,600	
4141 A Secondary School Teachers	3%	\$36,950	
1232 B Loan Officers	3%	\$36,250	
3152 A Registered Nurses	3%	\$55,612	
1114 A Other Financial Officers	2%	\$50,000	
2174 A Computer Programmers/Interactive Media Developers	2%	\$51,500	

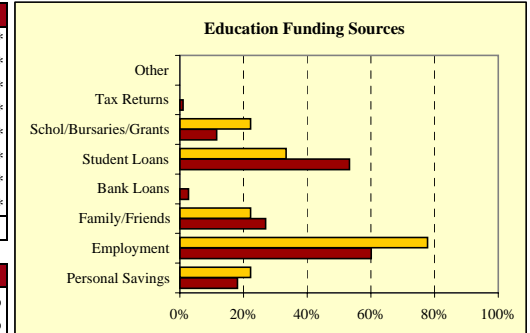
\*data not displayed where n < 2

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

**EDUCATION FINANCING**

29. Education Funding Sources (2 sources per respondent):	11.0701		UNBC	
Personal Savings	2	22%*	53	18%*
Employment	7	78%*	176	60%*
Family/Friends	2	22%*	79	27%*
Bank Loans	-	0%*	8	3%*
Student Loans	3	33%*	156	53%*
Scholarships/Bursaries/Grants	2	22%*	34	12%*
Tax Returns	-	0%*	3	1%*
Other	-	0%*	-	0%*
<b>Total Respondents</b>	<b>9</b>		<b>293</b>	

\* Percentage of respondents who identified this source

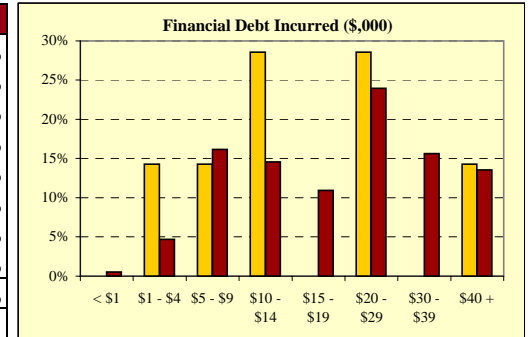


30. Financial Debt Incurred to Finance Univ. Education:	11.0701		UNBC	
Incurred any form of financial debt	7	78%*	192	66%
Incurred government-sponsored student loan debt	5	56%*	169	59%

\* Percentage of respondents who provided data

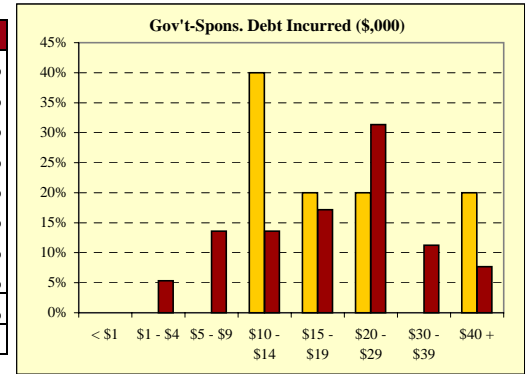
31. Financial Debt Amount:*	11.0701		UNBC	
< \$1,000	-	0%	1	1%
\$1,000 to \$4,999	1	14%	9	5%
\$5,000 to \$9,999	1	14%	31	16%
\$10,000 to \$14,999	2	29%	28	15%
\$15,000 to \$19,999	-	0%	21	11%
\$20,000 to \$29,999	2	29%	46	24%
\$30,000 to \$39,999	-	0%	30	16%
\$40,000 or More	1	14%	26	14%
<b>Total</b>	<b>7</b>	<b>100%</b>	<b>192</b>	<b>100%</b>
<b>Median Financial Debt</b>	<b>\$13,000</b>		<b>\$20,000</b>	

\*includes only cases where financial debt was incurred



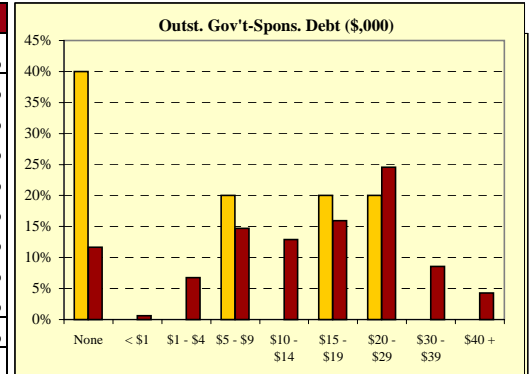
32. Government-Sponsored Student Loan Debt Amount:*	11.0701		UNBC	
< \$1,000	-	0%	-	0%
\$1,000 to \$4,999	-	0%	9	5%
\$5,000 to \$9,999	-	0%	23	14%
\$10,000 to \$14,999	2	40%	23	14%
\$15,000 to \$19,999	1	20%	29	17%
\$20,000 to \$29,999	1	20%	53	31%
\$30,000 to \$39,999	-	0%	19	11%
\$40,000 or More	1	20%	13	8%
<b>Total</b>	<b>5</b>	<b>100%</b>	<b>169</b>	<b>100%</b>
<b>Median Gov't-Sponsored Student Loan Debt</b>	<b>\$19,000</b>		<b>\$20,000</b>	

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



33. Outstanding Gov't-Sponsored Loan Debt Amount:*	11.0701		UNBC	
None - Loan repaid in full	2	40%	19	12%
< \$1,000	-	0%	1	1%
\$1,000 to \$4,999	-	0%	11	7%
\$5,000 to \$9,999	1	20%	24	15%
\$10,000 to \$14,999	-	0%	21	13%
\$15,000 to \$19,999	1	20%	26	16%
\$20,000 to \$29,999	1	20%	40	25%
\$30,000 to \$39,999	-	0%	14	9%
\$40,000 or More	-	0%	7	4%
<b>Total</b>	<b>5</b>	<b>100%</b>	<b>163</b>	<b>100%</b>
<b>Median Gov't-Sponsored Loan Debt Outstanding</b>	<b>\$9,500</b>		<b>\$15,000</b>	

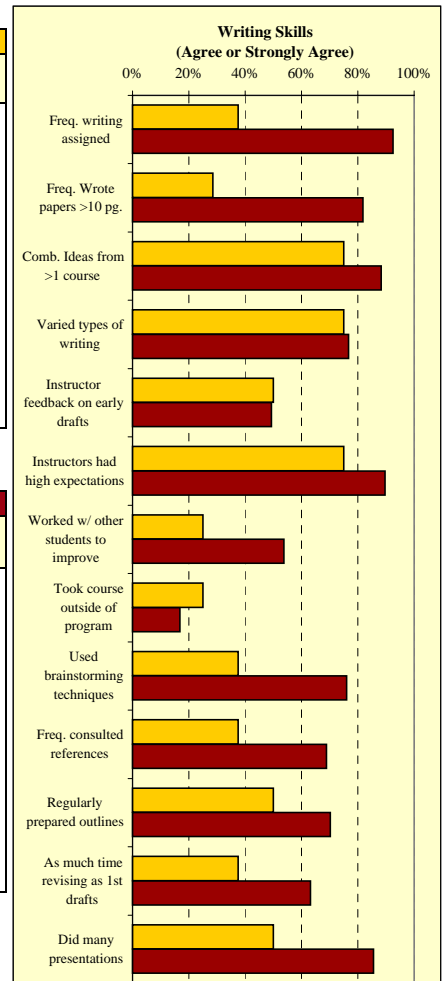
\*includes only cases where government-sponsored debt was incurred, and valid "amount remaining" was provided



**SPECIAL SECTION ON WRITING AND COMMUNICATION SKILLS**

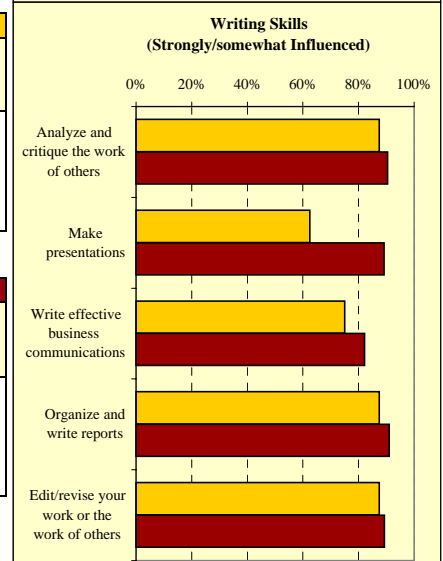
34a. To what extent do you agree or disagree with the following:	11.0701				# Resp.
	Strongly Agree	Agree	Disagree	Strongly Disagree	
Program included frequent writing assignments	0%	38%	63%	0%	8
Frequently wrote papers longer than 10 pages	0%	29%	57%	14%	7
Assignments combined ideas from >1 course	25%	50%	25%	0%	8
Assignments required varied types of writing	0%	75%	25%	0%	8
Instructors frequently commented on early drafts *	25%	25%	38%	13%	8
Instructors had high expectations *	13%	63%	25%	0%	8
Worked with other students to improve my writing	13%	13%	50%	25%	8
Took a writing course outside of my program	13%	13%	38%	38%	8
Learned & used techniques for coming up with ideas	13%	25%	50%	13%	8
Frequently consulted references on writing	13%	25%	63%	0%	8
Regularly prepared outlines prior to writing	0%	50%	50%	0%	8
Spent as much time revising as I did on first drafts	25%	13%	63%	0%	8
Was required to do many presentations	13%	38%	50%	0%	8

\* "...with regard to my writing/writing assignments."



34b. To what extent do you agree or disagree with the following:	UNBC				# Resp.
	Strongly Agree	Agree	Disagree	Strongly Disagree	
Program included frequent writing assignments	68%	24%	8%	0%	292
Frequently wrote papers longer than 10 pages	44%	38%	17%	1%	291
Assignments combined ideas from >1 course	44%	45%	11%	1%	291
Assignments required varied types of writing	33%	43%	21%	2%	292
Instructors frequently commented on early drafts *	15%	34%	38%	13%	290
Instructors had high expectations *	49%	41%	9%	1%	290
Worked with other students to improve my writing	21%	33%	29%	17%	292
Took a writing course outside of my program	10%	7%	23%	60%	291
Learned & used techniques for coming up with ideas	22%	54%	17%	7%	292
Frequently consulted references on writing	28%	40%	22%	10%	292
Regularly prepared outlines prior to writing	39%	31%	22%	8%	292
Spent as much time revising as I did on first drafts	23%	40%	29%	8%	291
Was required to do many presentations	46%	39%	14%	0%	292

\* "...with regard to my writing/writing assignments."



35a. To what extent have the writing and communication skills you gained in university positively influenced your ability to:	11.0701				# Resp.
	Strongly Influenced	Somewhat Influenced	Barely Influenced	Not at all Influenced	
Analyze and critique the work of others	25%	63%	13%	0%	8
Make presentations	13%	50%	38%	0%	8
Write effective memos, emails and other business	25%	50%	25%	0%	8
Organize and write reports	25%	63%	13%	0%	8
Edit/revise your work or the work of others	38%	50%	13%	0%	8

35a. To what extent have the writing and communication skills you gained in university positively influenced your ability to:	UNBC				# Resp.
	Strongly Influenced	Somewhat Influenced	Barely Influenced	Not at all Influenced	
Analyze and critique the work of others	42%	49%	8%	1%	292
Make presentations	58%	31%	9%	2%	288
Write effective memos, emails and other business	36%	46%	13%	5%	291
Organize and write reports	54%	37%	7%	2%	290
Edit/revise your work or the work of others	50%	39%	9%	2%	289