B.C. Baccalaureate Outcomes
2023 Survey of 2021 Baccalaureate Graduates

Detailed Summary of Survey Results
All Institutions
11.0701: Computer science

	SYSTEM
11.0701	

RESPONSE RATE

Survey Response Rate:	11.0701		SYSTEM	
Baccalaureate Graduates Survey Cohort	1,087	100%	25,962	100%
Survey Respondents and Response Rate	354	33%	8,603	33%

Response Rate
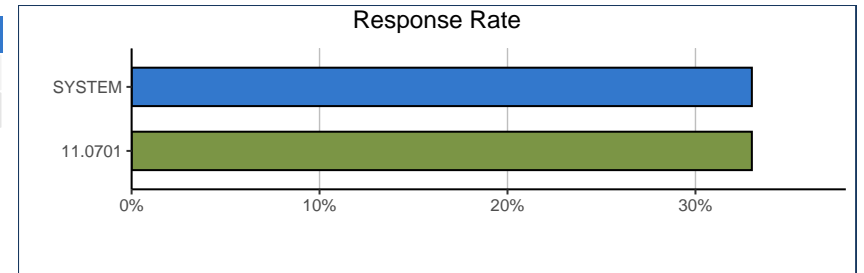
DEMOGRAPHIC INFORMATION

Self–Reporting Subgroups:	11.0701		SYSTEM	
Disabled	30	9%	1,079	13%
International	100	28%	1,153	13%
Aboriginal	~	~	330	5%
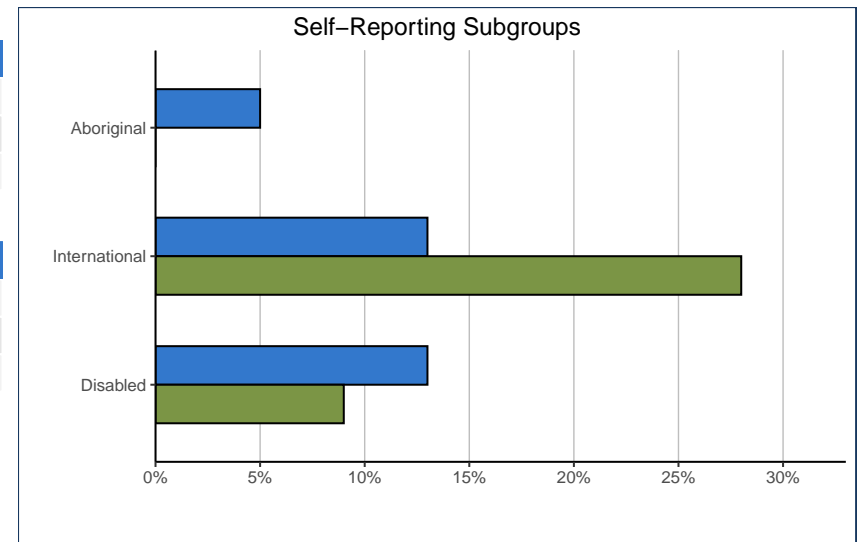
Gender:*	11.0701		SYSTEM	
Male	276	78%	3,534	41%
Female	78	22%	5,051	59%
Total	354	100%	8,585	100%

*Due to zero or low counts, institution–reported "Non–binary" demographic data are not included.

Self–Reporting Subgroups

Age (at time of survey):	11.0701		SYSTEM	
< 25	38	11%	1,417	17%
25 to 29	245	70%	5,150	60%
30 to 34	53	15%	994	12%
35 to 39	~	~	417	5%
40 to 49	~	~	407	5%
50 to 64	~	~	175	2%
> 64	0	0%	26	0%
Total	350	100%	8,586	100%
Median Age	26		26	
Average (mean) Age	27		28	

Age Distribution
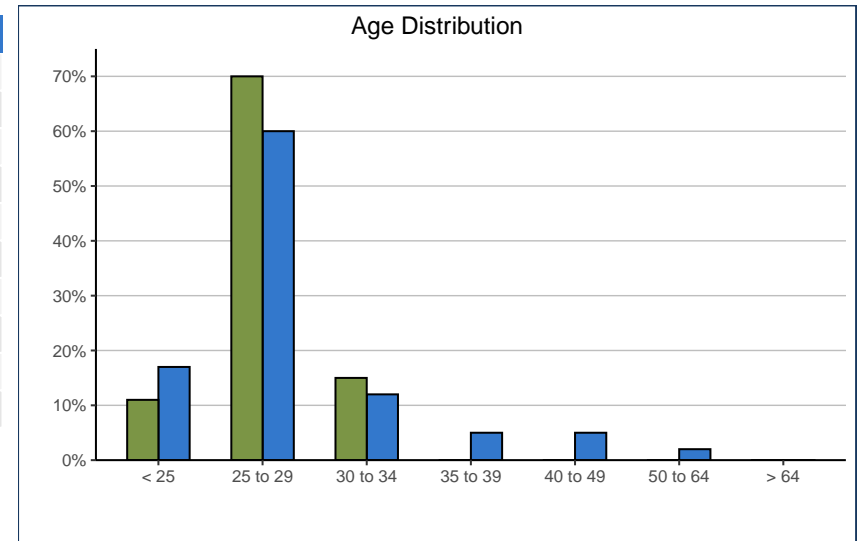
Place of Residence (at time of survey):	11.0701		SYSTEM	
BC – Mainland/Southwest	210	69%	4,824	64%
BC – Vancouver Island/Coast	25	8%	1,065	14%
BC – Northern B.C.	~	~	225	3%
BC – Interior/Kootenays	~	~	673	9%
BC Subtotal	261	86%	6,787	89%
Canada – Alberta	~	~	328	4%
Canada – Ontario	16	5%	239	3%
Canada – Other	~	~	165	2%
U.S.A.	13	4%	75	1%
Non–BC Subtotal	44	14%	807	11%
Total	305	100%	7,594	100%

Place of Residence

Within BC

BC Student Outcomes

Detailed Summary of Survey Results
All Institutions
11.0701: Computer science
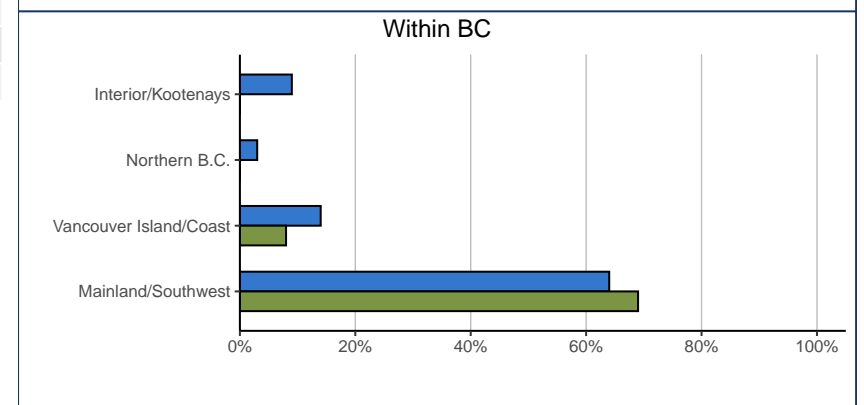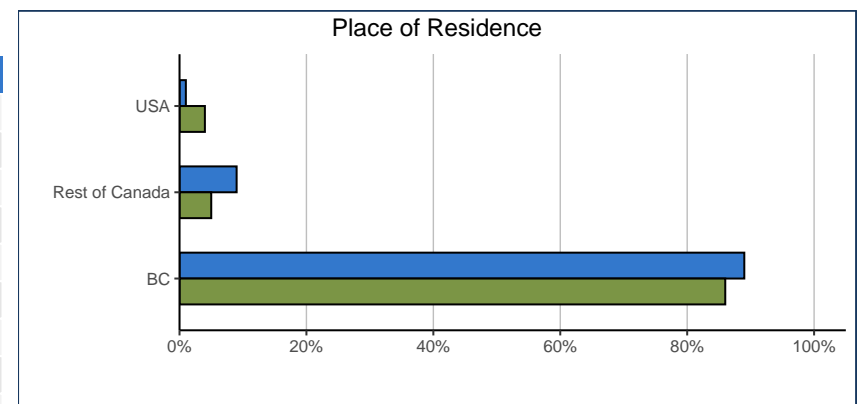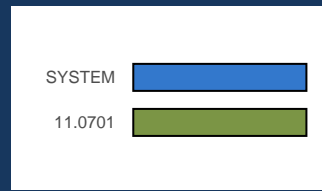
SYSTEM
11.0701

EDUCATION EVALUATION AND SKILL DEVELOPMENT

Program Satisfaction:	11.0701		SYSTEM	
Very Satisfied	89	26%	2,262	27%
Satisfied	223	64%	5,296	62%
Dissatisfied	25	7%	740	9%
Very Dissatisfied	12	3%	184	2%
Total	349	100%	8,482	100%

Usefulness of Knowledge, Skills, and Abilities Acquired during Program in Work:	11.0701		SYSTEM	
Very Useful	121	42%	2,704	39%
Somewhat Useful	134	46%	3,247	46%
Not Very Useful	26	9%	814	12%
Not at All Useful	10	3%	250	4%
Total	291	100%	7,015	100%

Took upgrading, access, bridging, or other preparatory courses during or prior to studies:	11.0701		SYSTEM	
Yes	52	15%	818	10%
No	295	85%	7,545	90%
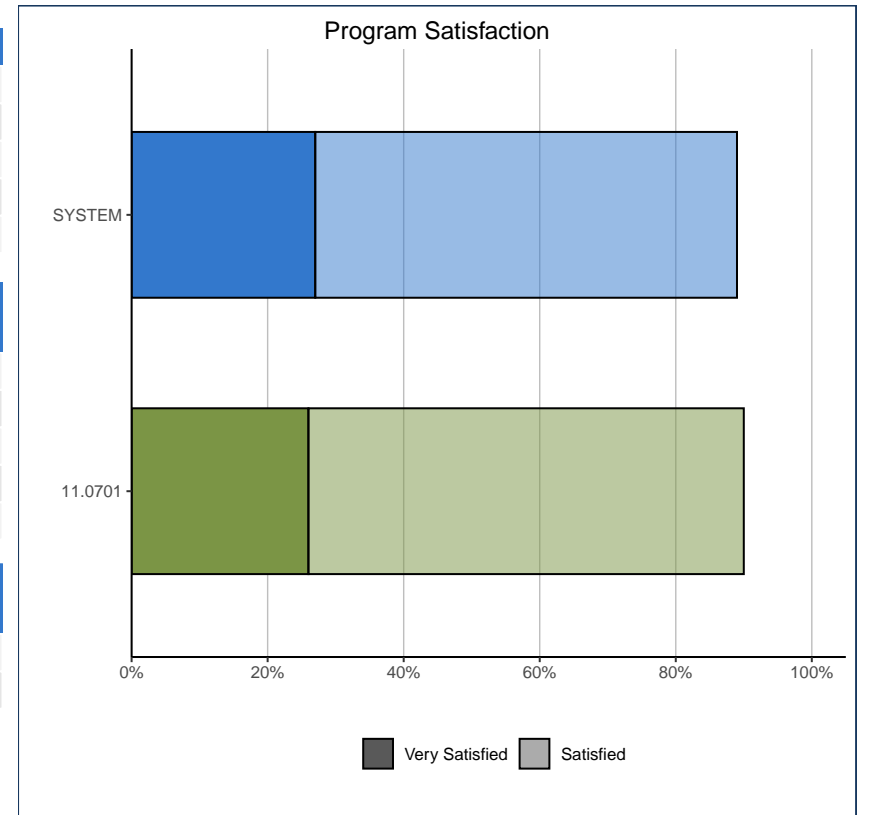
Would select the same program again:	11.0701		SYSTEM	
Yes	268	83%	5,501	73%
No	53	17%	2,019	27%

Quality of Instruction:	11.0701		SYSTEM	
Very Good	86	24%	2,328	27%
Good	221	62%	5,423	64%
Poor	40	11%	649	8%
Very Poor	7	2%	131	2%
Total	354	100%	8,531	100%
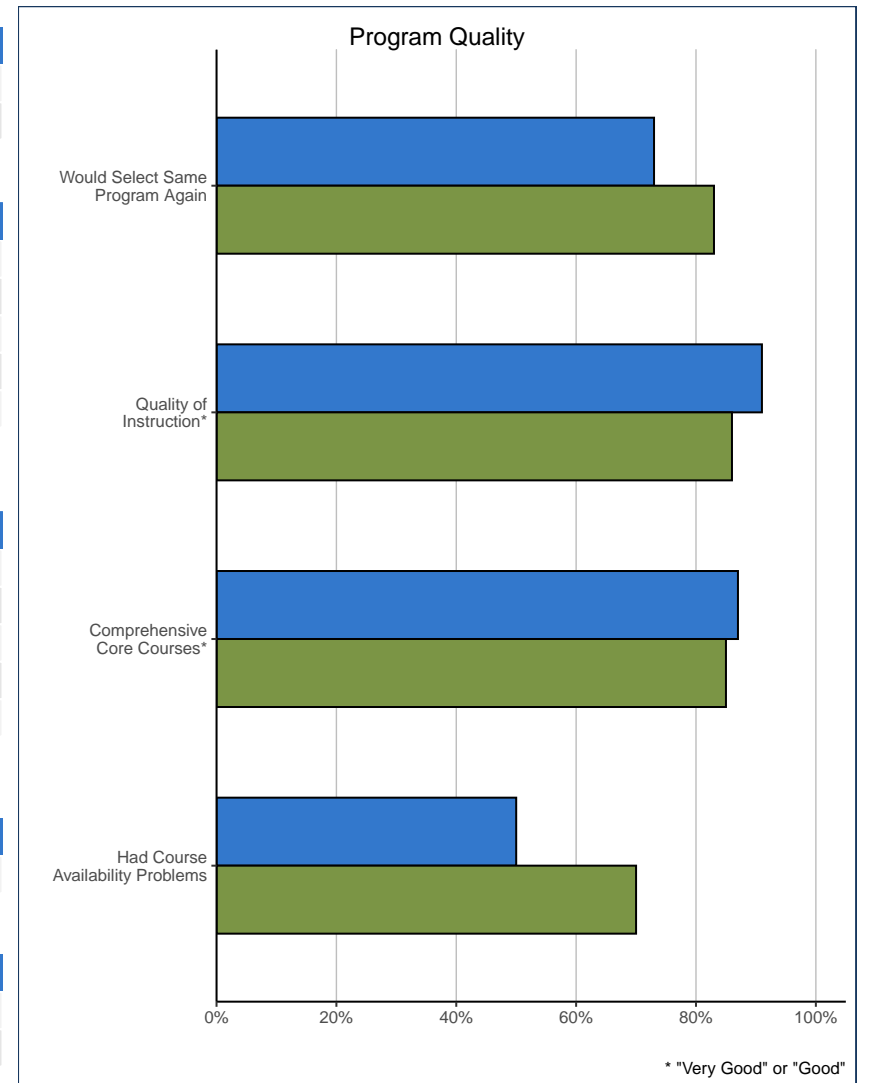
Comprehensiveness of Core Courses:	11.0701		SYSTEM	
Very Good	84	24%	2,206	26%
Good	213	61%	5,161	61%
Poor	42	12%	862	10%
Very Poor	9	3%	171	2%
Total	348	100%	8,400	100%

Course Availability:	11.0701		SYSTEM	
Encountered course availability problems	238	70%	4,193	50%

| Financial Constraints:	11.0701		SYSTEM	
Had to interrupt studies for financial reasons	27	8%	926	11%
Had to take program part–time for financial reasons	49	14%	1,545	18%

Program Satisfaction

Legend: Very Satisfied, Satisfied

Program Quality

* "Very Good" or "Good"

BC Student Outcomes
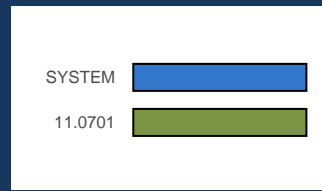
| SYSTEM | |
| 11.0701 | |

SKILL DEVELOPMENT

Skill Development: How helpful was institution?	11.0701				
	Very Helpful	Helpful	Not Very Helpful	Not at All Helpful	# Resp.
Written Communication	19%	56%	21%	5%	320
Oral Communication	17%	50%	28%	5%	318
Reading and Comprehension	26%	56%	15%	3%	333
Group Collaboration	27%	48%	19%	5%	346
Critical Anlysis	46%	46%	6%	1%	346
Problem Resolution	38%	49%	9%	3%	342
Use of Mathematics	38%	52%	9%	1%	345
Conducting Research	21%	51%	21%	7%	307
Learning on Your Own	49%	40%	7%	3%	344

Skill Development: How helpful was institution?	SYSTEM				
	Very Helpful	Helpful	Not Very Helpful	Not at All Helpful	# Resp.
Written Communication	27%	57%	13%	3%	8,300
Oral Communication	25%	56%	17%	3%	8,321
Reading and Comprehension	30%	56%	13%	2%	8,343
Group Collaboration	28%	52%	17%	4%	8,403
Critical Anlysis	42%	49%	7%	2%	8,503
Problem Resolution	25%	55%	17%	3%	8,293
Use of Mathematics	21%	47%	24%	8%	6,569
Conducting Research	30%	50%	17%	4%	8,092
Learning on Your Own	38%	50%	9%	3%	8,397

Helpful with Skill Development
"Very Helpful" or "Helpful"
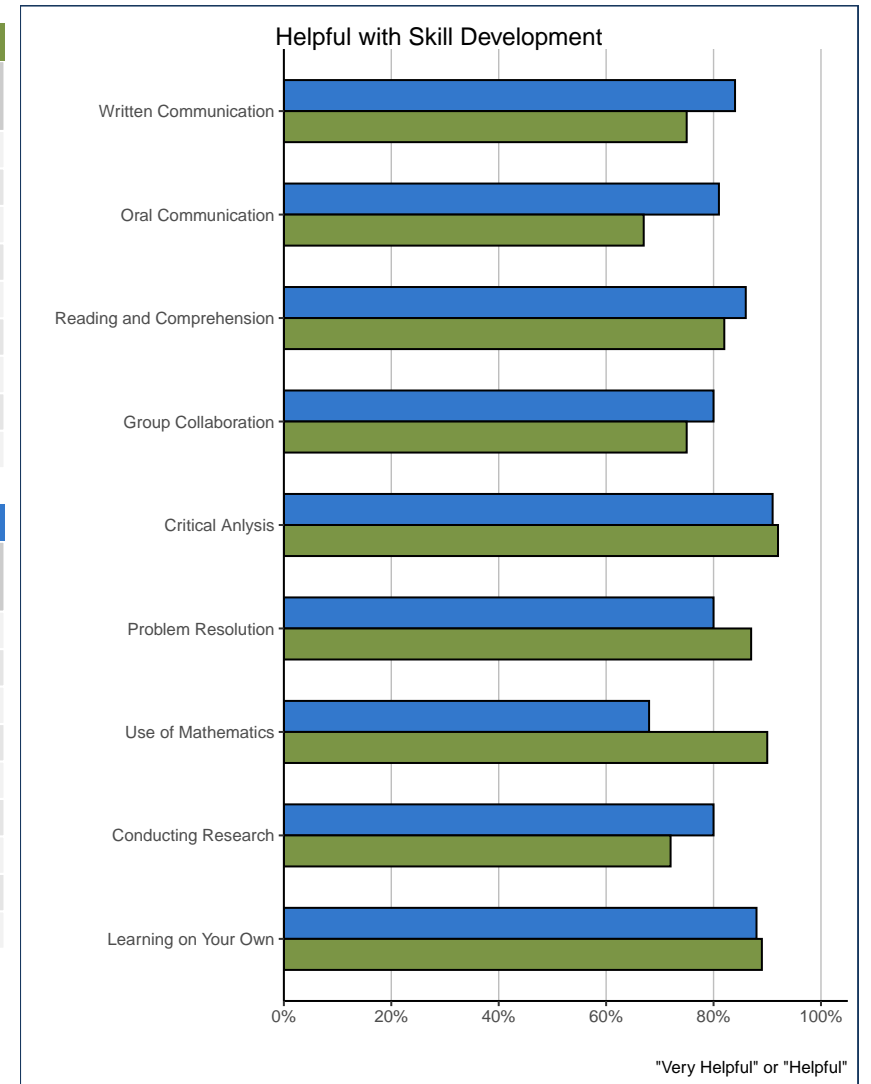
FURTHER EDUCATION

Took further education since 2021 graduation:	11.0701		SYSTEM	
Yes	69	20%	3,668	43%
Not currently enrolled	41	12%	1,580	19%
Currently enrolled full–time	22	6%	1,472	17%
Currently enrolled part–time	4	1%	565	7%
No	282	80%	4,870	57%
Total	351	100%	8,538	100%

Have you taken further education since graduation?

Yes – Currently enrolled part–time   Yes – Currently enrolled full–time
Yes – Not currently enrolled   No
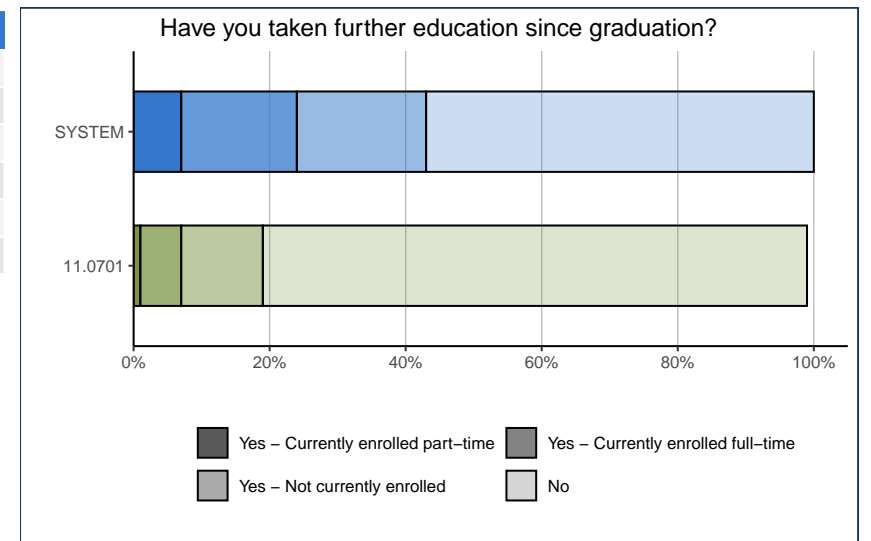
Type of Formal Post–Secondary Education:	11.0701		SYSTEM	
Masters Degree	40	59%	1,184	33%
Doctoral Degree	6	9%	153	4%
Another Undergraduate Degree	2	3%	718	20%
Certificate or Diploma below Bachelor level	7	10%	510	14%
Professional Association Certification	5	7%	538	15%
Postgraduate Certificate or Diploma	2	3%	359	10%
Other	6	9%	162	4%
Total	68	100%	3,624	100%

Further Education/Training Type

BC Student Outcomes

Detailed Summary of Survey Results
All Institutions
11.0701: Computer science
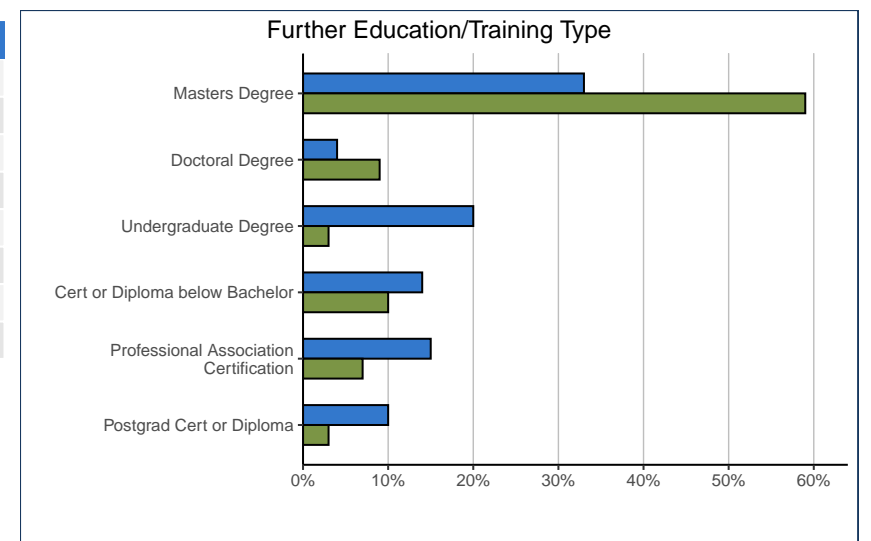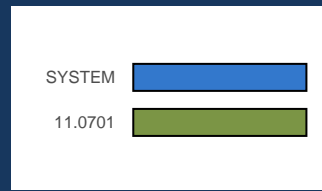
SYSTEM
11.0701

EMPLOYMENT

Labour Fource Status:	11.0701		SYSTEM	
In Labour Force (working or seeking work)	323	93%	7,643	90%
Not in Labour Force	24	7%	803	10%
Total	347	100%	8,446	100%

Employment:	11.0701		SYSTEM	
Employment Rate*	292	82%	7,062	82%
Unemployment Rate**	31	9.6%	581	7.6%

*Percent = Total employed divided by total number of respondents
**Percent = Total unemployed divided by total number in Labour Force
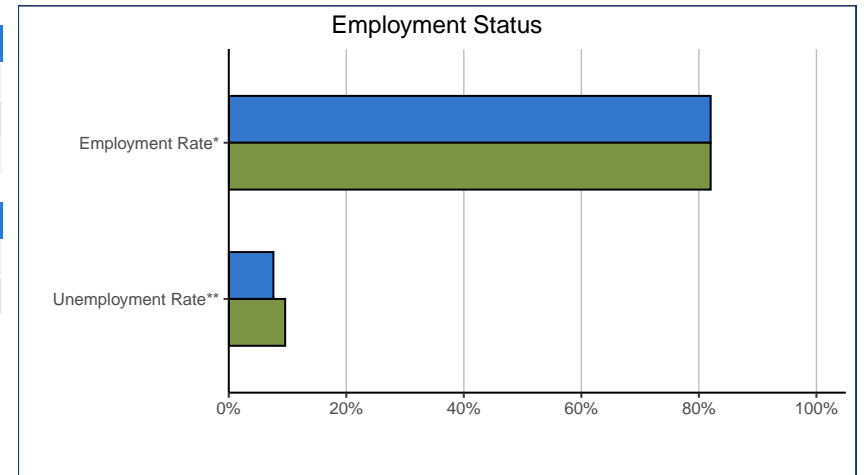
Status of Graduates NOT in Labour Force:	11.0701		SYSTEM	
Attending School FT	10	42%	565	70%
Attending School PT	0	0%	20	2%
Other	14	58%	218	27%
Total NOT in Labour Force	24	100%	803	100%

Primary Employment Type:	11.0701		SYSTEM	
Paid worker	284	98%	6,623	94%
Self–employed	7	2%	412	6%
Total	291	100%	7,035	100%

Job Characteristics:	11.0701		SYSTEM	
I hold more than one job*	27	9%	1,243	18%
My main job is full–time (>= 30 hours per week)**	274	98%	5,922	89%

*Of total Employed
**Of those who provided data on hours/week worked
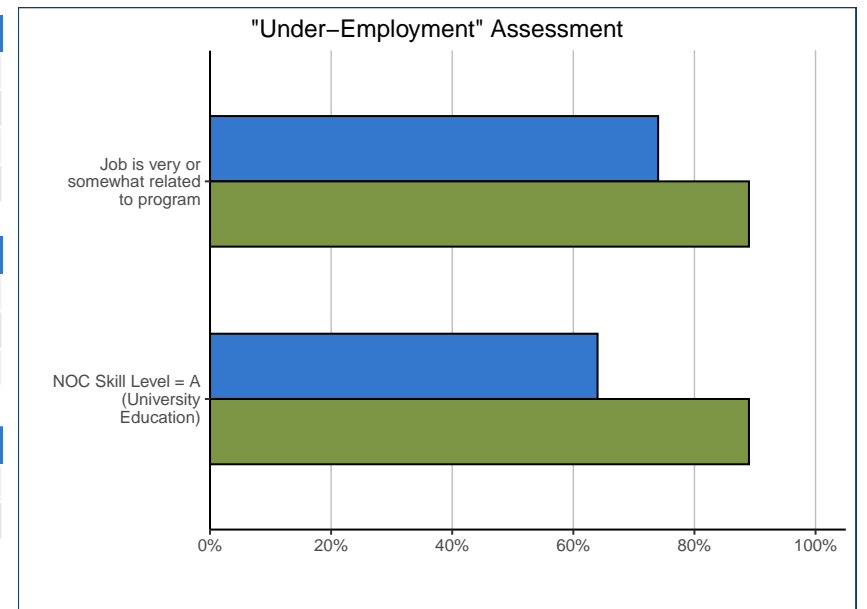
How related is your main job to your program?	11.0701		SYSTEM	
Very Related	187	64%	3,081	44%
Somewhat Related	74	25%	2,151	31%
Not Very Related	16	5%	901	13%
Not at All Related	15	5%	910	13%
Total	292	100%	7,043	100%

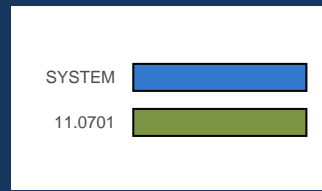| "Under–employment" Assessment:	11.0701		SYSTEM	
Job is very or somewhat related to program	261	89%	5,232	74%
NOC Skill Level = A (University Education)*	249	89%	4,148	64%

*Of total valid responses

Gross Annual Income from Main Job:*	11.0701		SYSTEM	
Less than $20,000	6	3%	310	6%
$20,000 to $39,999	9	4%	593	11%
$40,000 to $59,999	22	10%	1,303	24%
$60,000 to $79,999	45	20%	1,609	30%
$80,000 to $99,999	31	14%	805	15%
$100,000 and Above	107	49%	729	14%
Total	220	100%	5,349	100%
Median Annual Income (full–time) ($)	99,000		68,000	
Average Annual Income (full–time) ($)	111,470		74,015	

*Where data provided
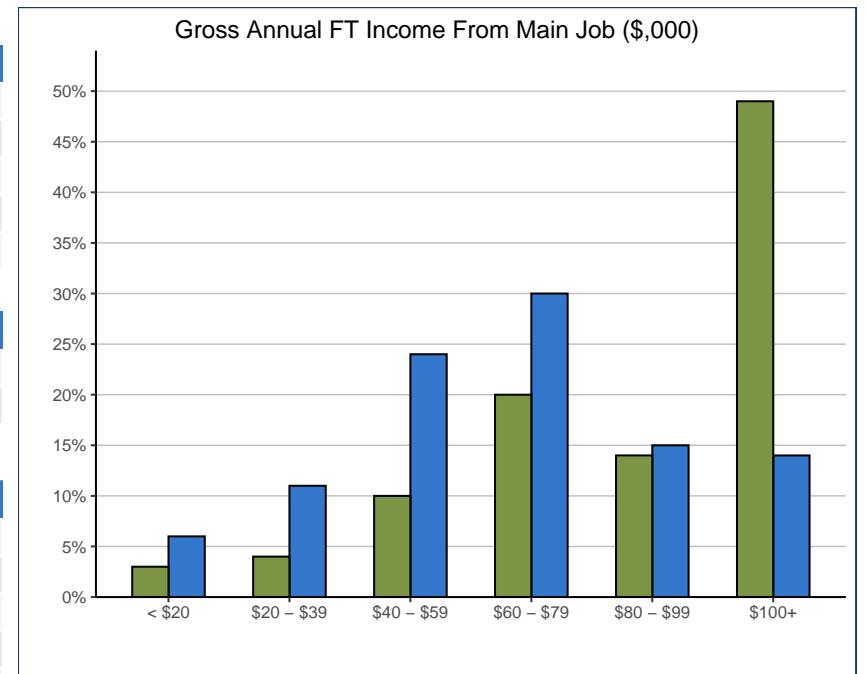
NOC Skill Type of Main Job:	11.0701		SYSTEM	
Business, finance & administration	10	4%	1,558	24%
Natural & applied sciences & related	252	90%	1,354	21%
Health	1	0%	761	12%
Education, law and social, community & government	7	3%	1,787	27%
Art, culture, recreation & sport	1	0%	296	5%
Sales & service	7	3%	559	9%
Trades, transport & equipment operators & related	0	0%	114	2%
Natural resources, agriculture & related production	1	0%	35	1%
Manufacturing & utilities	0	0%	35	1%
Total	279	100%	6,499	100%

Employment Status

"Under–Employment" Assessment

Gross Annual FT Income From Main Job ($,000)

Employed Graduates by NOC Skill Type
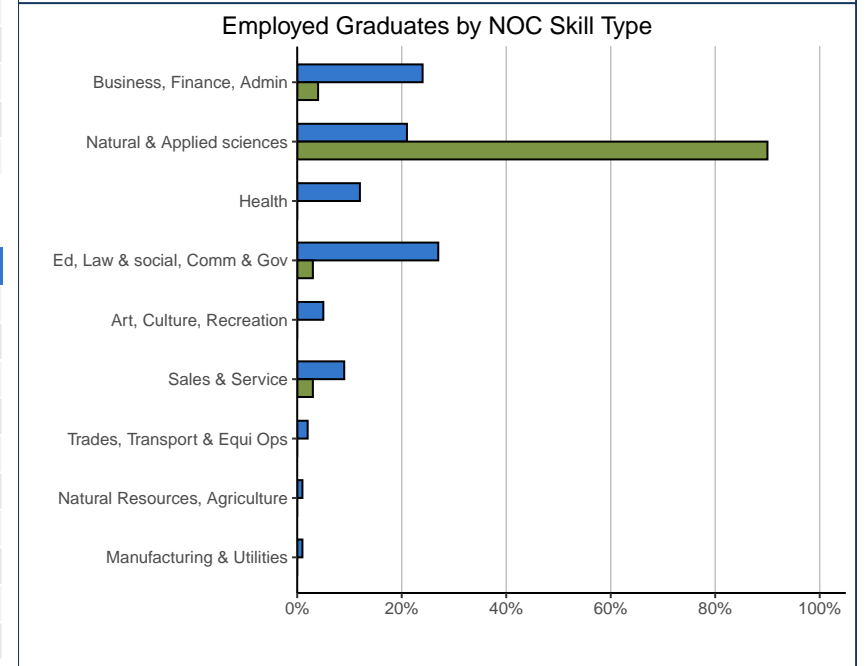
	SYSTEM
11.0701	

EMPLOYMENT, continued

NOC Skill Level of Main Job:	11.0701		SYSTEM	
A. University education	249	89%	4,148	64%
B. College education/trade apprenticeship	26	9%	1,713	26%
C. Secondary school + job–specific training	4	1%	564	9%
D. No formal education	1	0%	90	1%
Total	280	100%	6,515	100%

NOC Skill Level of Main Job
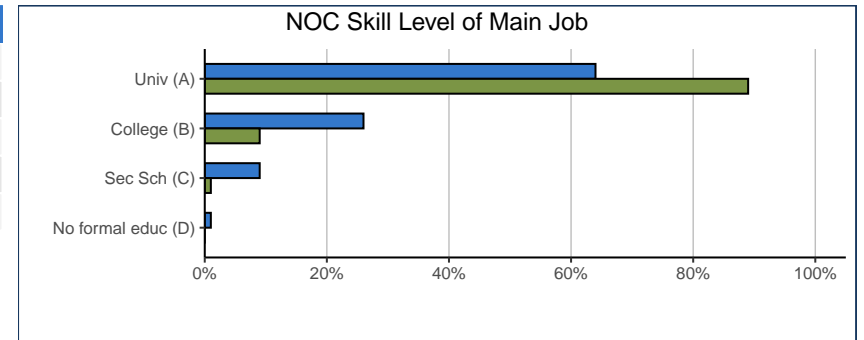
How useful are the following skills and abilities in doing your main job?	11.0701				
	Very Useful	Somewhat Useful	Not Very Useful	Not at All Useful	# Resp.
Written Communication	68%	28%	2%	2%	290
Oral Communication	76%	21%	2%	0%	289
Reading and Comprehension	74%	22%	3%	1%	290
Group Collaboration	77%	21%	2%	0%	290
Critical Anlysis	80%	18%	2%	0%	290
Problem Resolution	85%	13%	1%	0%	289
Use of Mathematics	23%	40%	29%	8%	288
Conducting Research	37%	33%	20%	9%	283
Learning on Your Own	79%	19%	1%	1%	290
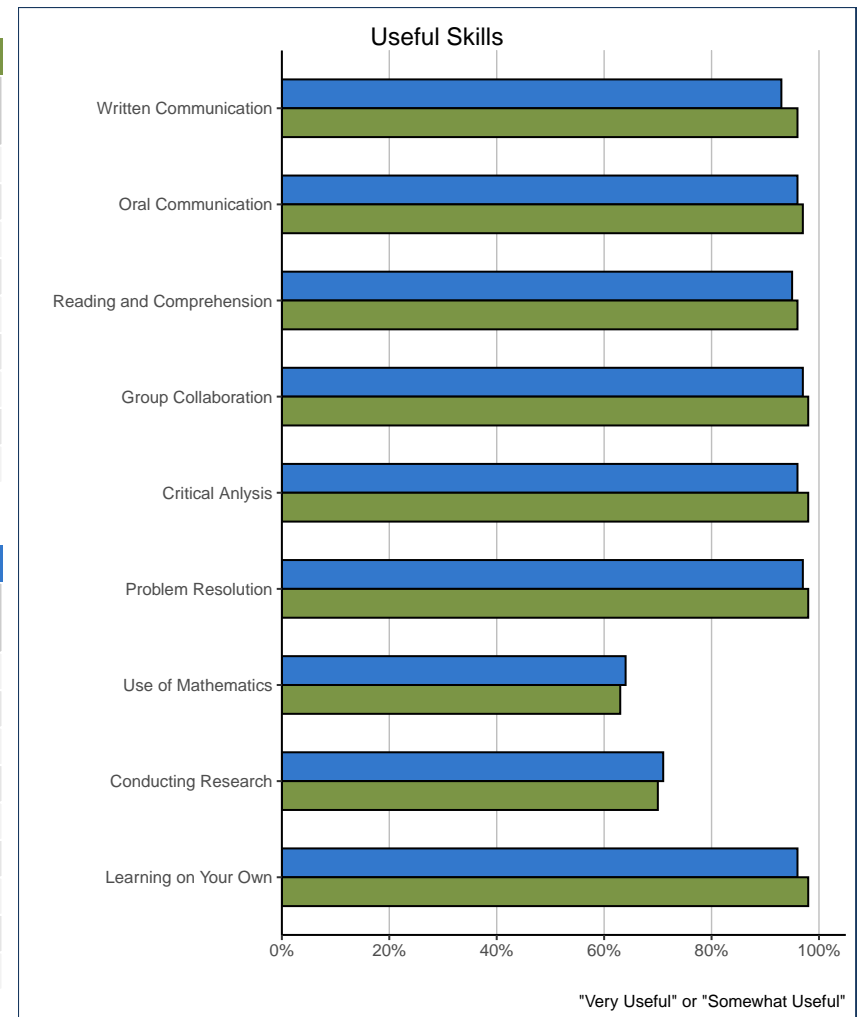
How useful are the following skills and abilities in doing your main job?	SYSTEM				
	Very Useful	Somewhat Useful	Not Very Useful	Not at All Useful	# Resp.
Written Communication	71%	22%	4%	2%	7,014
Oral Communication	78%	18%	2%	1%	7,014
Reading and Comprehension	72%	23%	4%	1%	7,014
Group Collaboration	79%	18%	2%	1%	7,016
Critical Anlysis	76%	20%	3%	1%	7,016
Problem Resolution	80%	17%	2%	1%	7,013
Use of Mathematics	27%	37%	22%	14%	6,834
Conducting Research	37%	34%	17%	11%	6,904
Learning on Your Own	70%	26%	3%	2%	6,997

Useful Skills

"Very Useful" or "Somewhat Useful"

Top 10 Full–time Occupations of 11.0701 Graduates:			11.0701
NOC	NOC Skill Level	Description	% Employed FT in this Occ.**
2173	A	Software engineers and designers	37%
2174	A	Computer programmers and interactive media developers	32%
2171	A	Information systems analysts and consultants	4%
2172	A	Database analysts and data administrators	3%
2282	B	User support technicians	3%
XXXX	O	Unclassified occupations	3%
2175	A	Web designers and developers	2%
*			
*			
*			

* Data not displayed where n < 5
** Percentages cited are of those employed

Top 10 Full–time Occupations of SYSTEM Graduates:			SYSTEM
NOC	NOC Skill Level	Description	% Employed FT in this Occ.**
3012	A	Registered nurses and registered psychiatric nurses	6%
XXXX	O	Unclassified occupations	5%
2173	A	Software engineers and designers	3%
1111	A	Financial auditors and accountants	3%
4032	A	Elementary school and kindergarten teachers	3%
4212	B	Social and community service workers	3%
1123	A	Professional occupations in advertising, marketing and public relations	3%
2174	A	Computer programmers and interactive media developers	3%
1221	B	Administrative officers	2%
4031	A	Secondary school teachers	2%

* Data not displayed where n < 5
** Percentages cited are of those employed

BC Student Outcomes

Detailed Summary of Survey Results
All Institutions
11.0701: Computer science

SYSTEM
11.0701

EDUCATION FINANCING

Funding Sources (3 sources allowed):*	11.0701		SYSTEM	
Personal savings, investments	95	28%	2,643	31%
Employment while studying	135	40%	4,042	48%
Family/Friends	233	68%	5,041	60%
Personal bank loans	14	4%	535	6%
Government student loans	99	29%	2,834	34%
Scholarships/Bursaries/Grants	93	27%	2,631	31%
Other	157	46%	1,990	24%
Total	341		8,391	

* Percentage of respondents who identified this source

Financial Debt Incurred to Finance Bac. Ed.:*	11.0701		SYSTEM	
Incurred any form of financial debt	142	41%	3,736	44%
Incurred government–sponsored student loan debt	111	32%	3,105	37%

* Percentage of respondents who provided data

Education Funding Sources

Financial Debt Amount:*	11.0701		SYSTEM	
< $1,000	0	0%	4	0%
$1,000 to $4,999	2	2%	85	3%
$5,000 to $9,999	10	9%	219	8%
$10,000 to $14,999	13	11%	298	10%
$15,000 to $19,999	9	8%	233	8%
$20,000 to $29,999	22	19%	545	19%
$30,000 to $39,999	16	14%	455	16%
$40,000 or More	43	37%	1,064	37%
Total	115	100%	2,903	100%
Median Financial Debt ($)	30,000		30,000	

* Includes only cases where financial debt was incurred

Financial Debt Incurred ($,000)

Gov't–Sponsored Student Loan Debt Amount:*	11.0701		SYSTEM	
< $1,000	0	0%	6	0%
$1,000 to $4,999	2	3%	66	3%
$5,000 to $9,999	5	6%	156	7%
$10,000 to $14,999	10	13%	219	10%
$15,000 to $19,999	7	9%	189	9%
$20,000 to $29,999	18	23%	424	20%
$30,000 to $39,999	14	18%	394	18%
$40,000 or More	24	30%	687	32%
Total	80	100%	2,141	100%
Median Gov't–Sponsored Loan Debt ($)	27,500		30,000	

* Includes only cases where government–sponsored debt was incurred

Government–Sponsored Debt Incurred ($,000)

Gov't–Sponsored Loan Debt Outstanding:*	11.0701		SYSTEM	
None – Loan repaid in full	24	27%	524	22%
< $1,000	0	0%	9	0%
$1,000 to $4,999	4	4%	103	4%
$5,000 to $9,999	8	9%	189	8%
$10,000 to $14,999	8	9%	213	9%
$15,000 to $19,999	8	9%	208	9%
$20,000 to $29,999	16	18%	447	18%
$30,000 to $39,999	12	13%	330	14%
$40,000 or More	9	10%	406	17%
Total	89	100%	2,429	100%
Median Gov't–Sponsored Loan Debt Outstanding** ($)	22,000		24,000	

* Includes only cases where government–sponsored debt was incurred, and valid "amount remaining" was provided
** Median amounts shown are based on those who had remaining government student loan debt

Outstanding Government–Sponsored Debt ($,000)