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

Detailed Summary of Survey Results
Simon Fraser University
14.0903: Computer software engineering

SFU
14.0903

RESPONSE RATE

Survey Response Rate:	14.0903		SFU	
Baccalaureate Graduates Survey Cohort	51	100%	5,547	100%
Survey Respondents and Response Rate	28	55%	1,725	31%

Response Rate
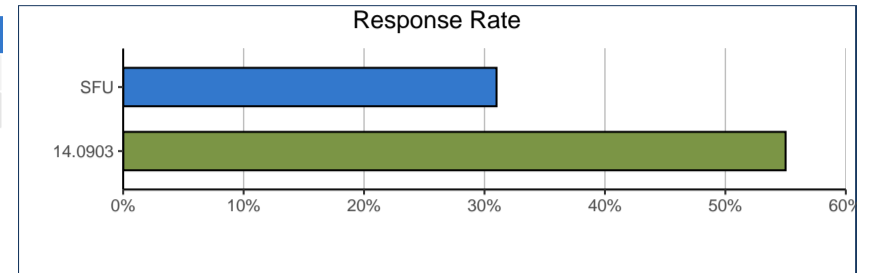
DEMOGRAPHIC INFORMATION

Self–Reporting Subgroups:	14.0903		SFU	
Disabled	0	0%	205	13%
International	~	~	333	19%
Aboriginal	~	~	31	2%

Self–Reporting Subgroups
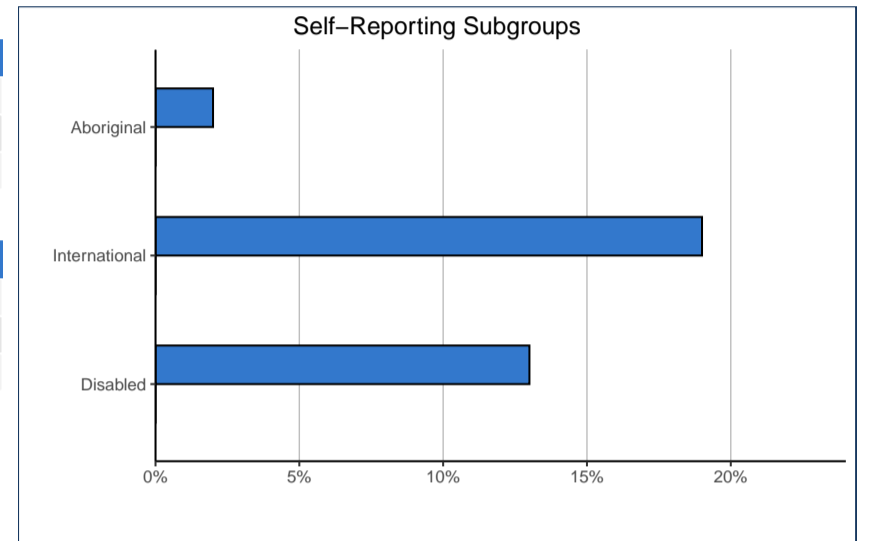
Gender:*	14.0903		SFU	
Male	~	~	797	46%
Female	~	~	924	54%
Total	28	100%	1,721	100%

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

Age (at time of survey):	14.0903		SFU	
< 25	~	~	200	12%
25 to 29	22	79%	1,238	72%
30 to 34	~	~	165	10%
35 to 39	~	~	54	3%
40 to 49	0	0%	53	3%
50 to 64	0	0%	~	~
> 64	0	0%	~	~
Total	28	100%	1,725	100%
Median Age	27		26	
Average (mean) Age	27		28	

Age Distribution
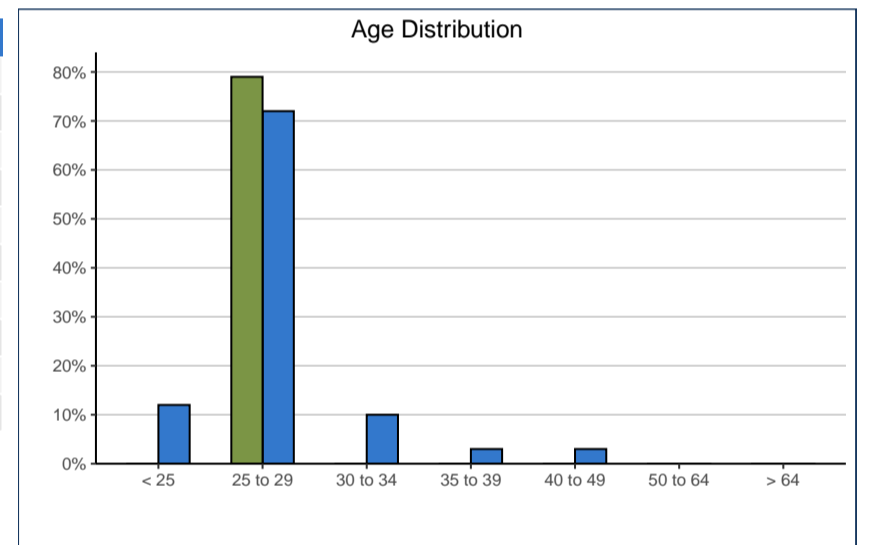
Place of Residence (at time of survey):	14.0903		SFU	
BC – Mainland/Southwest	26	96%	1,390	90%
BC – Vancouver Island/Coast	0	0%	32	2%
BC – Northern B.C.	0	0%	~	~
BC – Interior/Kootenays	0	0%	~	~
BC Subtotal	26	96%	1,446	94%
Canada – Alberta	0	0%	16	1%
Canada – Ontario	~	~	39	3%
Canada – Other	0	0%	18	1%
U.S.A.	0	0%	17	1%
Non–BC Subtotal	~	~	90	6%
Total	~	~	1,536	100%

Place of Residence

Within BC

BC Student Outcomes
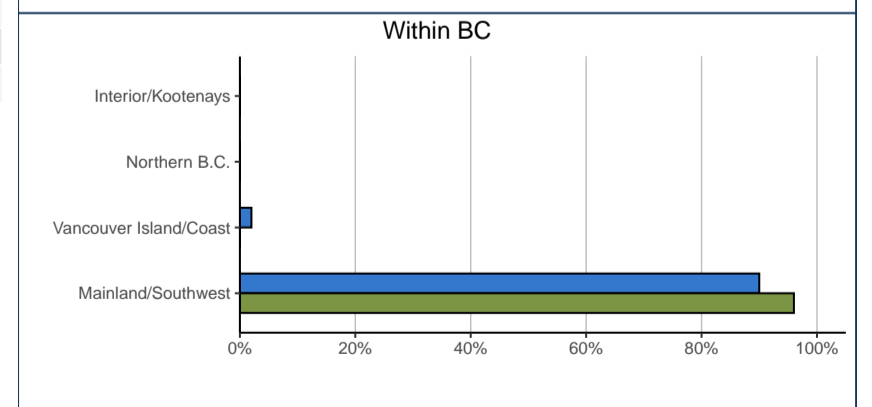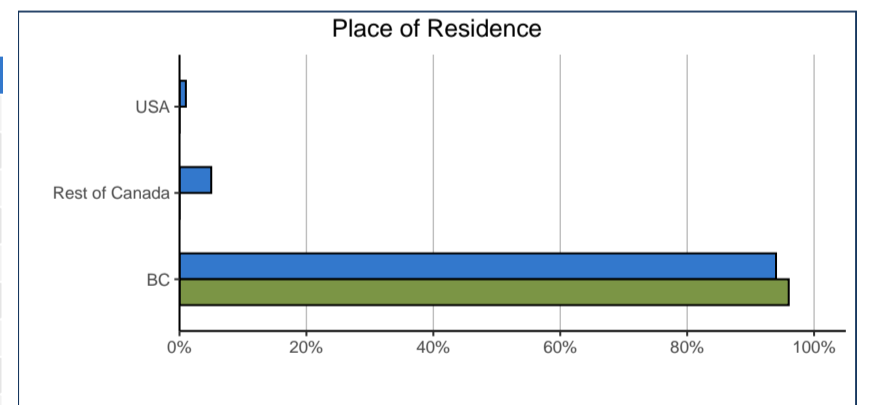
EDUCATION EVALUATION AND SKILL DEVELOPMENT

Program Satisfaction:	14.0903		SFU	
Very Satisfied	10	36%	366	22%
Satisfied	15	54%	1,108	65%
Dissatisfied	3	11%	177	10%
Very Dissatisfied	0	0%	42	2%
Total	28	100%	1,693	100%

Usefulness of Knowledge, Skills, and Abilities Acquired during Program in Work:	14.0903		SFU	
Very Useful	15	56%	402	29%
Somewhat Useful	11	41%	749	53%
Not Very Useful	0	0%	182	13%
Not at All Useful	1	4%	70	5%
Total	27	100%	1,403	100%

Took upgrading, access, bridging, or other preparatory courses during or prior to studies:	14.0903		SFU	
Yes	4	14%	157	9%
No	24	86%	1,507	91%

Would select the same program again:	14.0903		SFU	
Yes	24	100%	1,040	69%
No	0	0%	466	31%

Quality of Instruction:	14.0903		SFU	
Very Good	5	18%	383	22%
Good	20	71%	1,141	67%
Poor	3	11%	157	9%
Very Poor	0	0%	30	2%
Total	28	100%	1,711	100%

Comprehensiveness of Core Courses:	14.0903		SFU	
Very Good	8	30%	387	23%
Good	17	63%	1,062	63%
Poor	2	7%	191	11%
Very Poor	0	0%	37	2%
Total	27	100%	1,677	100%

Course Availability:	14.0903		SFU	
Encountered course availability problems	25	93%	1,122	66%

| Financial Constraints:	14.0903		SFU	
Had to interrupt studies for financial reasons	3	11%	203	12%
Had to take program part–time for financial reasons	4	15%	397	23%

Program Satisfaction

Very Satisfied   Satisfied

Program Quality

* "Very Good" or "Good"

BC Student Outcomes

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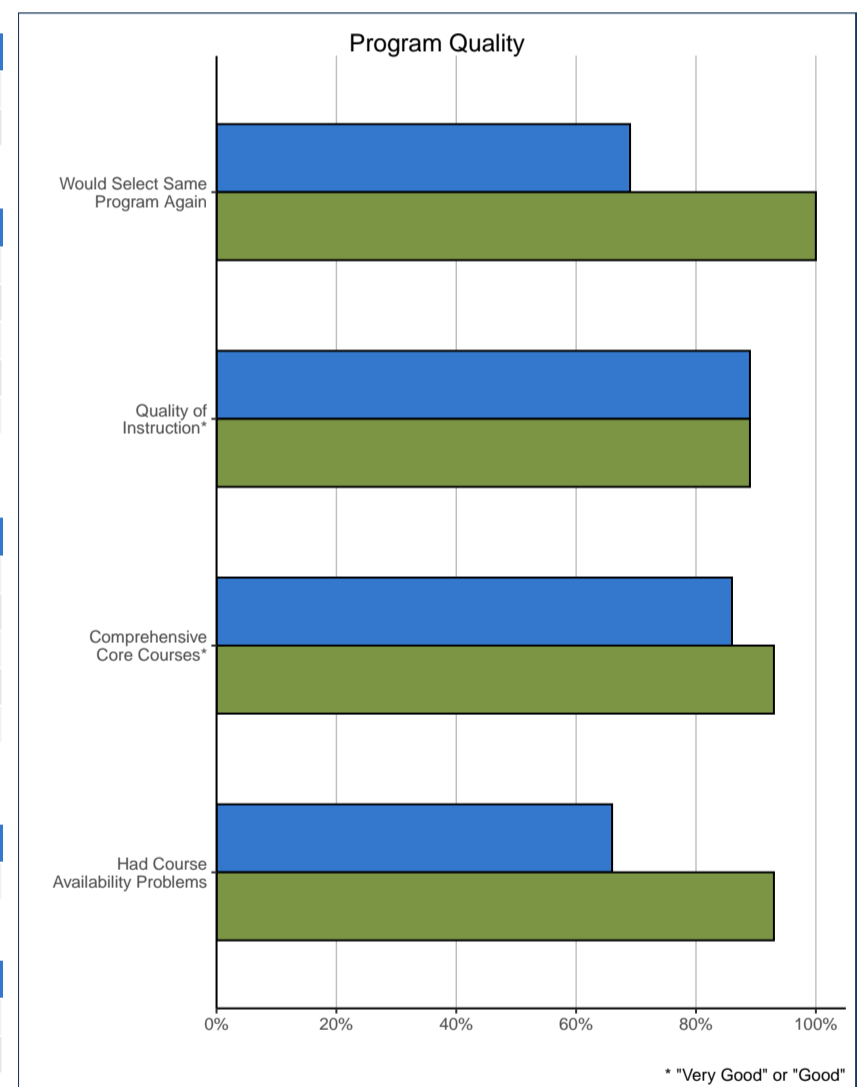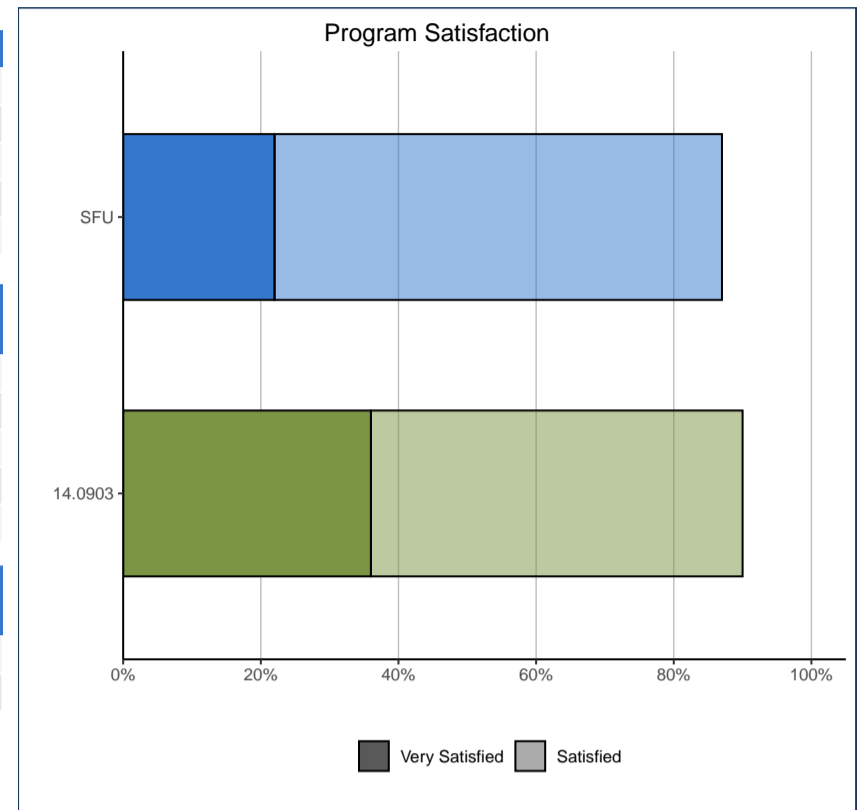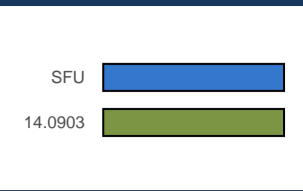
SFU
14.0903

SKILL DEVELOPMENT

Skill Development: How helpful was institution?	14.0903				
	Very Helpful	Helpful	Not Very Helpful	Not at All Helpful	# Resp.
Written Communication	11%	70%	15%	4%	27
Oral Communication	13%	50%	38%	0%	24
Reading and Comprehension	25%	61%	11%	4%	28
Group Collaboration	36%	54%	11%	0%	28
Critical Anlysis	36%	50%	11%	4%	28
Problem Resolution	29%	71%	0%	0%	28
Use of Mathematics	26%	67%	7%	0%	27
Conducting Research	33%	42%	21%	4%	24
Learning on Your Own	50%	38%	12%	0%	26

Skill Development: How helpful was institution?	SFU				
	Very Helpful	Helpful	Not Very Helpful	Not at All Helpful	# Resp.
Written Communication	27%	57%	13%	3%	1,667
Oral Communication	23%	56%	19%	3%	1,660
Reading and Comprehension	26%	57%	15%	2%	1,682
Group Collaboration	23%	52%	20%	5%	1,691
Critical Anlysis	39%	52%	8%	1%	1,702
Problem Resolution	23%	54%	19%	4%	1,653
Use of Mathematics	20%	45%	27%	8%	1,376
Conducting Research	27%	52%	17%	4%	1,592
Learning on Your Own	35%	51%	10%	3%	1,677

Helpful with Skill Development

"Very Helpful" or "Helpful"
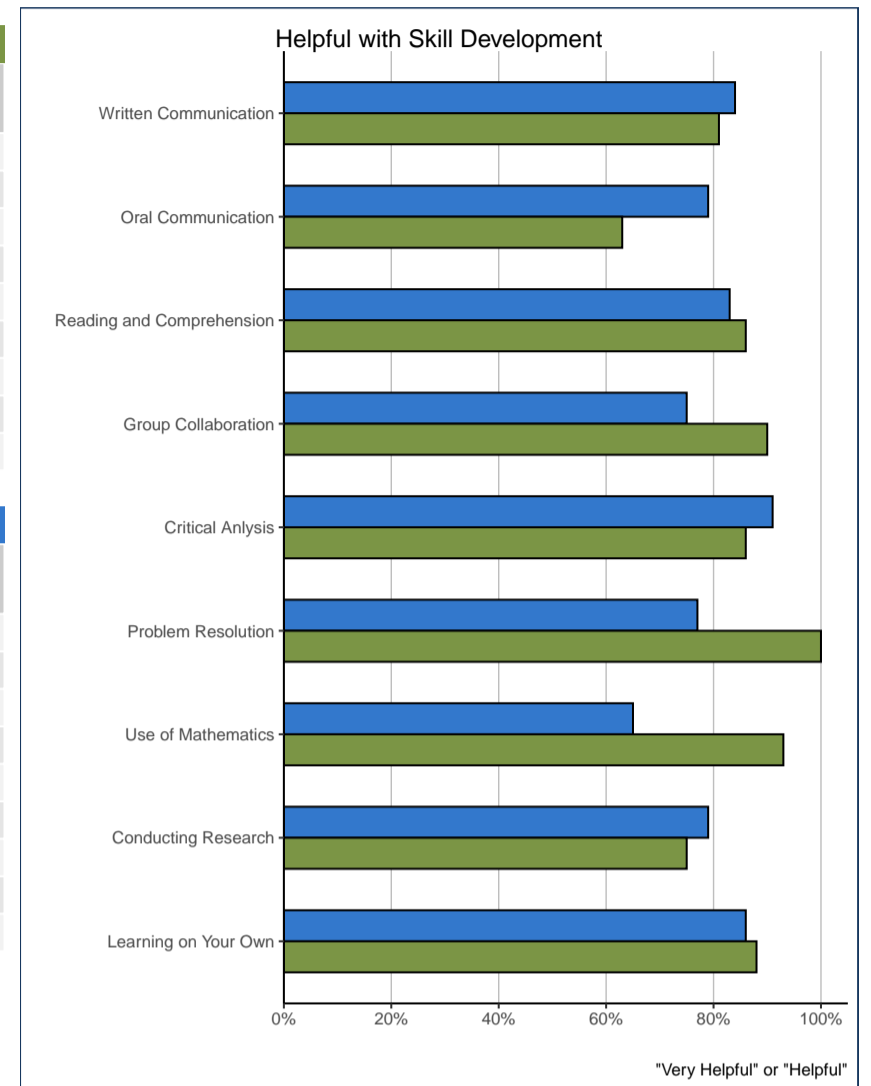
FURTHER EDUCATION

Took further education since 2021 graduation:	14.0903		SFU	
Yes	2	7%	697	41%
Not currently enrolled	2	7%	327	19%
Currently enrolled full–time	0	0%	258	15%
Currently enrolled part–time	0	0%	103	6%
No	26	93%	1,015	59%
Total	28	100%	1,712	100%

Have you taken further education since graduation?

Yes – Currently enrolled part–time Yes – Currently enrolled full–time
Yes – Not currently enrolled No
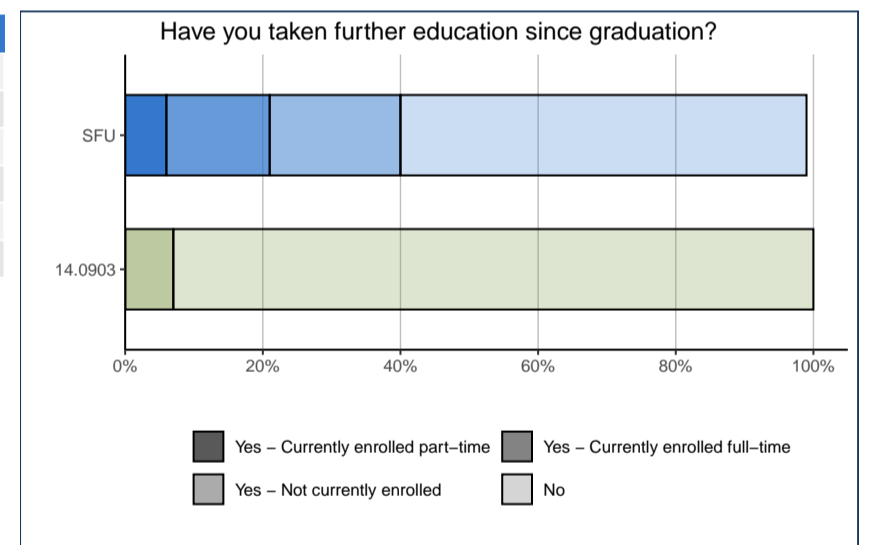
Type of Formal Post–Secondary Education:	14.0903		SFU	
Masters Degree	0	0%	185	27%
Doctoral Degree	0	0%	28	4%
Another Undergraduate Degree	0	0%	147	21%
Certificate or Diploma below Bachelor level	2	100%	129	19%
Professional Association Certification	0	0%	89	13%
Postgraduate Certificate or Diploma	0	0%	81	12%
Other	0	0%	31	4%
Total	2	100%	690	100%

Further Education/Training Type
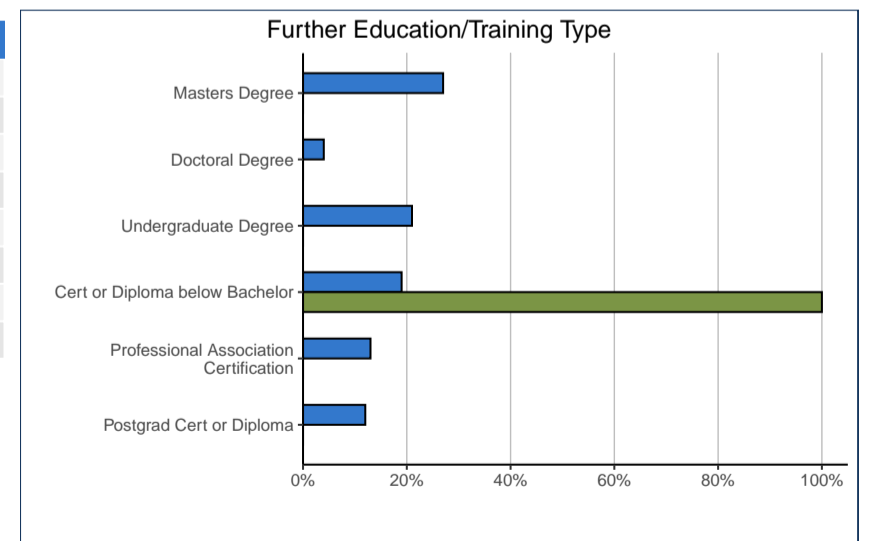
EMPLOYMENT

Labour Fource Status:	14.0903		SFU	
In Labour Force (working or seeking work)	28	100%	1,542	91%
Not in Labour Force	0	0%	150	9%
Total	28	100%	1,692	100%

Employment:	14.0903		SFU	
Employment Rate*	27	96%	1,418	82%
Unemployment Rate**	1	3.6%	124	8.0%

*Percent = Total employed divided by total number of respondents
**Percent = Total unemployed divided by total number in Labour Force
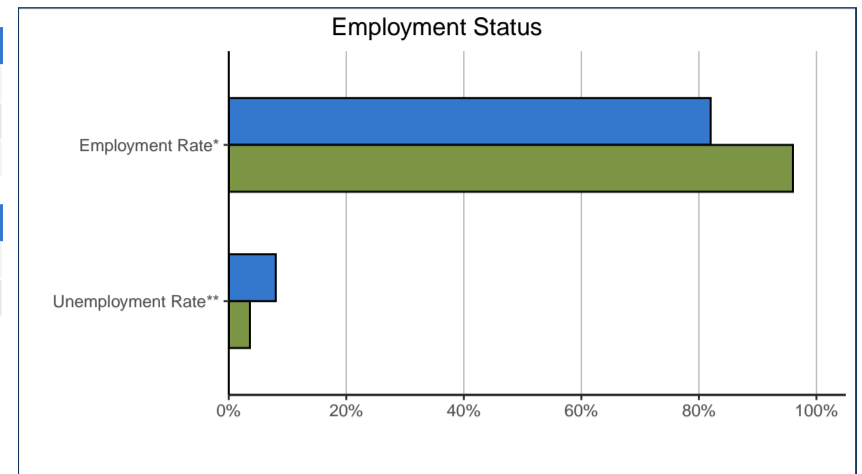
Employment Status

Status of Graduates NOT in Labour Force:	14.0903		SFU	
Attending School FT	0	0%	100	67%
Attending School PT	0	0%	2	1%
Other	0	0%	48	32%
Total NOT in Labour Force	0	0%	150	100%
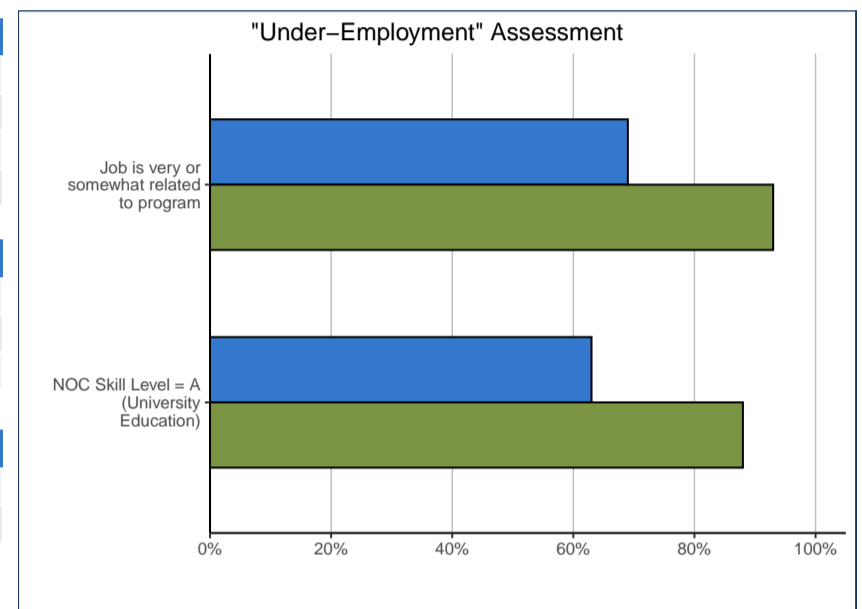
Primary Employment Type:	14.0903		SFU	
Paid worker	27	100%	1,335	95%
Self–employed	0	0%	73	5%
Total	27	100%	1,408	100%

Job Characteristics:	14.0903		SFU	
I hold more than one job*	1	4%	217	15%
My main job is full–time (>= 30 hours per week)**	26	100%	1,195	90%

*Of total Employed
**Of those who provided data on hours/week worked

"Under–Employment" Assessment

How related is your main job to your program?	14.0903		SFU	
Very Related	18	67%	509	36%
Somewhat Related	7	26%	471	33%
Not Very Related	0	0%	216	15%
Not at All Related	2	7%	219	15%
Total	27	100%	1,415	100%
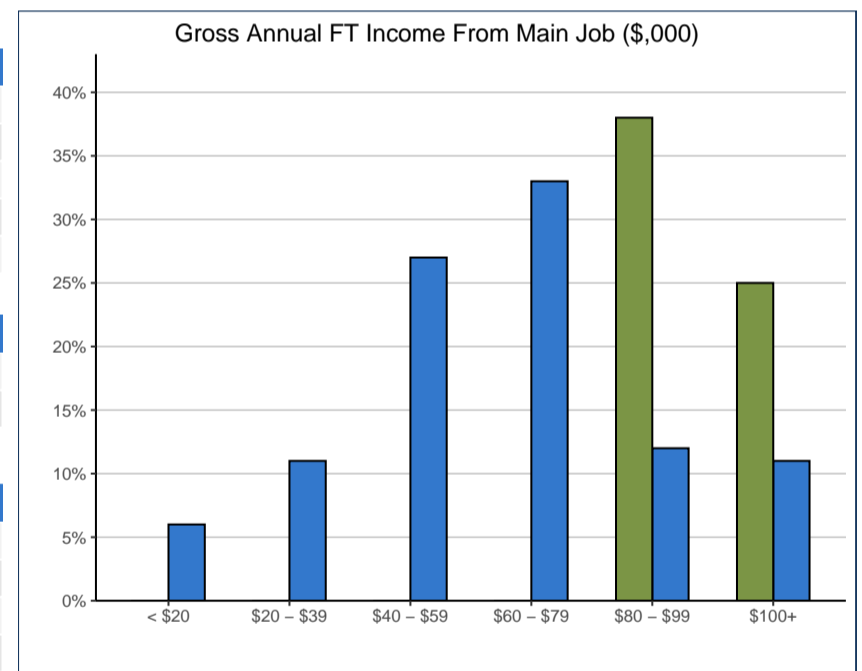
"Under–employment" Assessment:	14.0903		SFU	
Job is very or somewhat related to program	25	93%	980	69%
NOC Skill Level = A (University Education)*	23	88%	801	63%

*Of total valid responses

Gross Annual Income from Main Job:*	14.0903		SFU	
Less than $20,000	0	0%	59	6%
$20,000 to $39,999	0	0%	113	11%
$40,000 to $59,999	~	~	283	27%
$60,000 to $79,999	~	~	345	33%
$80,000 to $99,999	9	38%	122	12%
$100,000 and Above	6	25%	110	11%
Total	24	100%	1,032	100%
Median Annual Income (full–time) ($)	85,396		65,000	
Average Annual Income (full–time) ($)	87,600		69,847	

*Where data provided

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

NOC Skill Type of Main Job:	14.0903		SFU	
Business, finance & administration	1	4%	342	27%
Natural & applied sciences & related	23	88%	314	25%
Health	0	0%	41	3%
Education, law and social, community & government	1	4%	389	31%
Art, culture, recreation & sport	0	0%	59	5%
Sales & service	1	4%	110	9%
Trades, transport & equipment operators & related	0	0%	13	1%
Natural resources, agriculture & related production	0	0%	2	0%
Manufacturing & utilities	0	0%	5	0%
Total	26	100%	1,275	100%

Employed Graduates by NOC Skill Type

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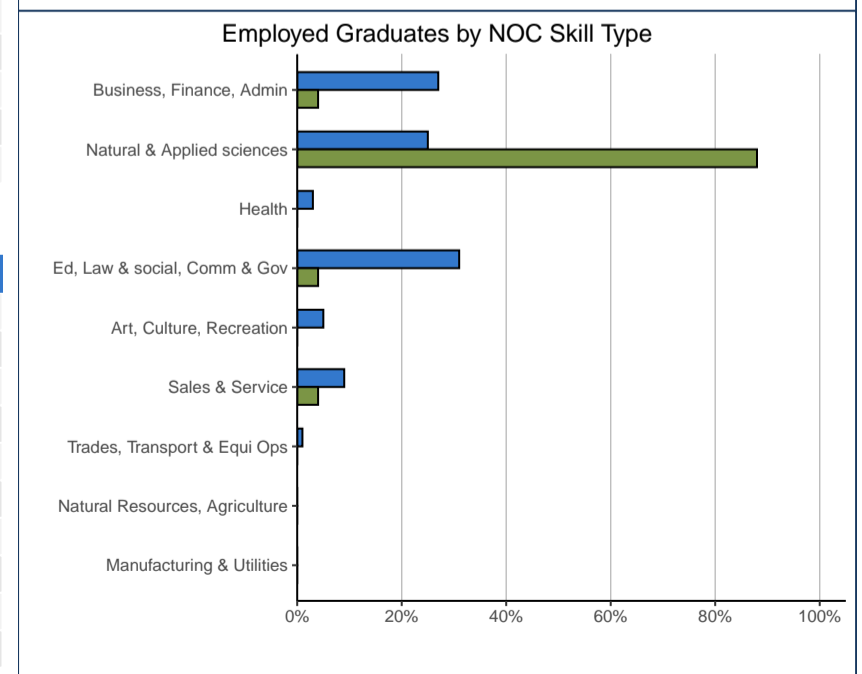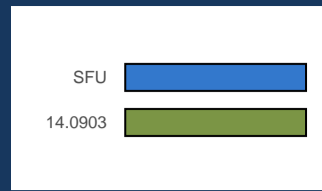
EMPLOYMENT, continued

NOC Skill Level of Main Job:	14.0903		SFU	
A. University education	23	88%	801	63%
B. College education/trade apprenticeship	1	4%	332	26%
C. Secondary school + job–specific training	2	8%	130	10%
D. No formal education	0	0%	16	1%
Total	26	100%	1,279	100%
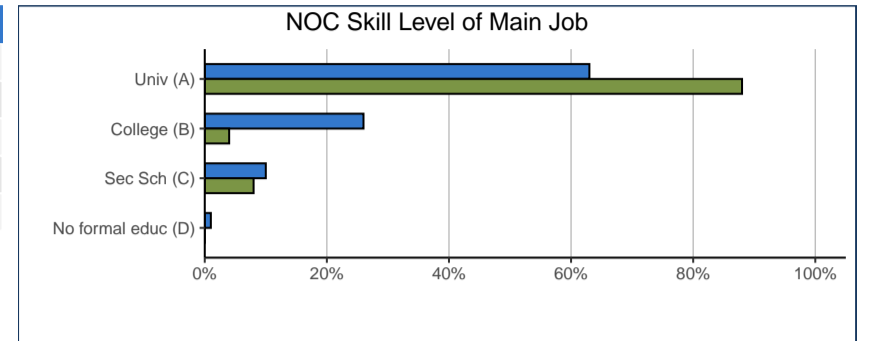
NOC Skill Level of Main Job

	14.0903				
How useful are the following skills and abilities in doing your main job?	Very Useful	Somewhat Useful	Not Very Useful	Not at All Useful	# Resp.
Written Communication	52%	37%	7%	4%	27
Oral Communication	74%	26%	0%	0%	27
Reading and Comprehension	63%	37%	0%	0%	27
Group Collaboration	81%	19%	0%	0%	27
Critical Anlysis	85%	15%	0%	0%	27
Problem Resolution	85%	15%	0%	0%	27
Use of Mathematics	7%	48%	33%	11%	27
Conducting Research	41%	37%	7%	15%	27
Learning on Your Own	96%	0%	4%	0%	27
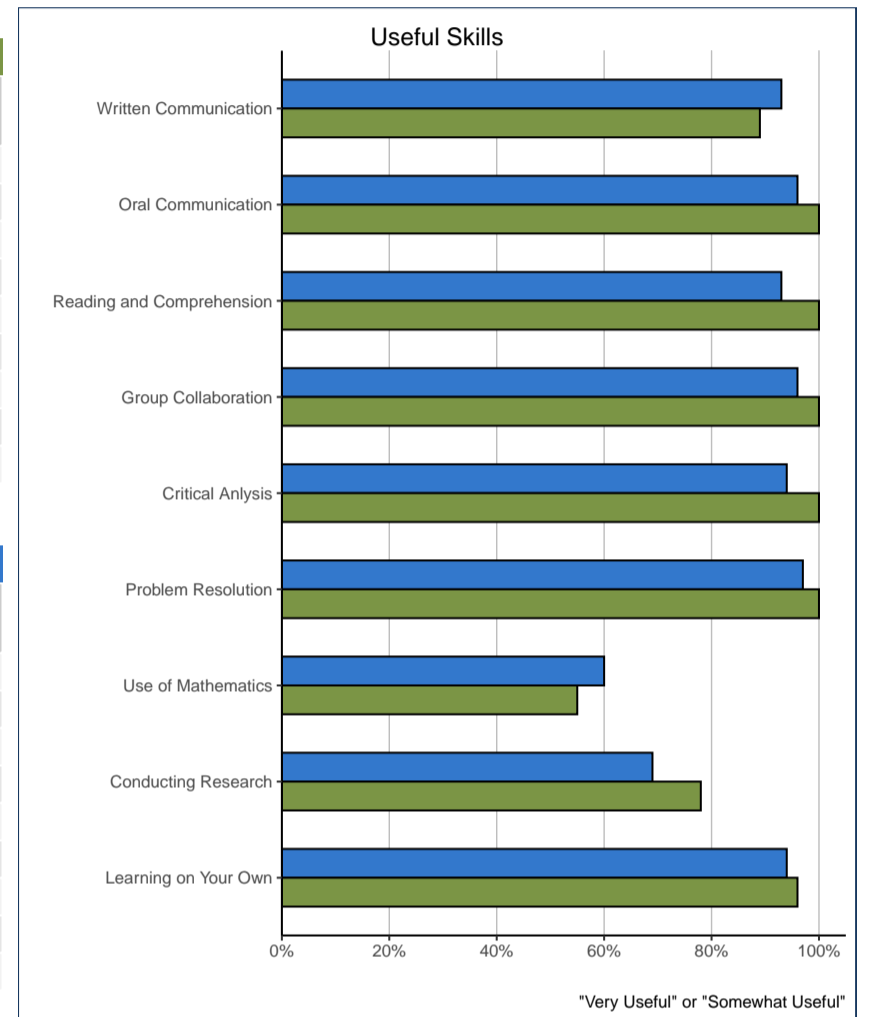
	SFU				
How useful are the following skills and abilities in doing your main job?	Very Useful	Somewhat Useful	Not Very Useful	Not at All Useful	# Resp.
Written Communication	65%	28%	5%	3%	1,407
Oral Communication	73%	23%	3%	1%	1,404
Reading and Comprehension	66%	27%	4%	2%	1,407
Group Collaboration	74%	22%	3%	1%	1,407
Critical Anlysis	70%	24%	4%	1%	1,408
Problem Resolution	76%	21%	3%	1%	1,405
Use of Mathematics	24%	36%	24%	15%	1,377
Conducting Research	33%	36%	17%	14%	1,383
Learning on Your Own	65%	29%	4%	2%	1,402

Useful Skills

"Very Useful" or "Somewhat Useful"

Top 10 Full–time Occupations of 14.0903 Graduates:			14.0903
NOC	NOC Skill Level	Description	% Employed FT in this Occ.**
2174	A	Computer programmers and interactive media developers	33%
2173	A	Software engineers and designers	30%
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* Data not displayed where n < 5

** Percentages cited are of those employed

Top 10 Full–time Occupations of SFU Graduates:			SFU
NOC	NOC Skill Level	Description	% Employed FT in this Occ.**
XXXX	O	Unclassified occupations	7%
4032	A	Elementary school and kindergarten teachers	5%
2173	A	Software engineers and designers	5%
2174	A	Computer programmers and interactive media developers	4%
4031	A	Secondary school teachers	4%
1123	A	Professional occupations in advertising, marketing and public relations	3%
4212	B	Social and community service workers	3%
1111	A	Financial auditors and accountants	2%
2171	A	Information systems analysts and consultants	2%
1221	B	Administrative officers	2%

* Data not displayed where n < 5

** Percentages cited are of those employed

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EDUCATION FINANCING

Funding Sources (3 sources allowed):*	14.0903		SFU	
Personal savings, investments	8	29%	481	29%
Employment while studying	11	39%	824	49%
Family/Friends	16	57%	1,104	66%
Personal bank loans	0	0%	59	4%
Government student loans	11	39%	457	27%
Scholarships/Bursaries/Grants	10	36%	498	30%
Other	14	50%	437	26%
Total	28		1,671	

* Percentage of respondents who identified this source

Education Funding Sources

Financial Debt Incurred to Finance Bac. Ed.:*	14.0903		SFU	
Incurred any form of financial debt	12	43%	612	37%
Incurred government–sponsored student loan debt	11	41%	498	29%

* Percentage of respondents who provided data

Financial Debt Amount:*	14.0903		SFU	
< $1,000	0	0%	1	0%
$1,000 to $4,999	0	0%	13	3%
$5,000 to $9,999	0	0%	37	8%
$10,000 to $14,999	2	22%	54	12%
$15,000 to $19,999	1	11%	39	9%
$20,000 to $29,999	2	22%	80	18%
$30,000 to $39,999	2	22%	67	15%
$40,000 or More	2	22%	150	34%
Total	9	100%	441	100%
Median Financial Debt ($)	25,000		28,000	

* Includes only cases where financial debt was incurred

Financial Debt Incurred ($,000)

Gov't–Sponsored Student Loan Debt Amount:*	14.0903		SFU	
< $1,000	0	0%	2	1%
$1,000 to $4,999	0	0%	13	4%
$5,000 to $9,999	0	0%	37	12%
$10,000 to $14,999	2	25%	31	10%
$15,000 to $19,999	1	13%	29	9%
$20,000 to $29,999	2	25%	58	18%
$30,000 to $39,999	2	25%	53	17%
$40,000 or More	1	13%	92	29%
Total	8	100%	315	100%
Median Gov't–Sponsored Loan Debt ($)	25,000		26,000	

* Includes only cases where government–sponsored debt was incurred

Government–Sponsored Debt Incurred ($,000)

Gov't–Sponsored Loan Debt Outstanding:*	14.0903		SFU	
None – Loan repaid in full	3	33%	89	24%
< $1,000	1	11%	1	0%
$1,000 to $4,999	0	0%	21	6%
$5,000 to $9,999	0	0%	37	10%
$10,000 to $14,999	1	11%	36	10%
$15,000 to $19,999	1	11%	27	7%
$20,000 to $29,999	1	11%	66	18%
$30,000 to $39,999	1	11%	49	13%
$40,000 or More	1	11%	50	13%
Total	9	100%	376	100%
Median Gov't–Sponsored Loan Debt Outstanding** ($)	23,000		20,000	

* 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)