

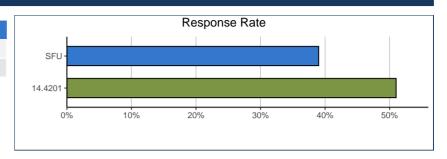
B.C. Baccalaureate Outcomes 2022 Survey of 2020 Baccalaureate Graduates

SFU 14.4201

Detailed Summary of Survey Results
Simon Fraser University
14.4201: Mechatronics, robotics, and automation engineering

RESPONSE RATE

Survey Response Rate:	14.4201		SFU	
Baccalaureate Graduates Survey Cohort	76	100%	5,252	100%
Survey Respondents and Response Rate	39	51%	2,037	39%

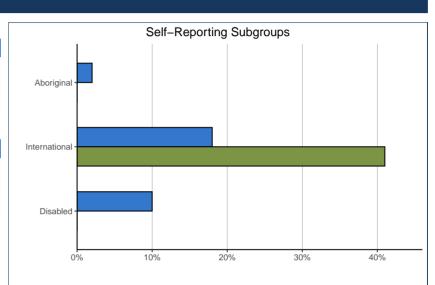


DEMOGRAPHIC INFORMATION

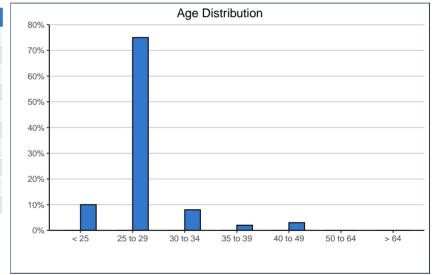
Self-Reporting Subgroups:	14.4201		SFU	
Disabled	~	~	202	10%
International	16	41%	376	18%
Aboriginal	~	~	40	2%

Gender:*	14.4201		SFU	
Male	~	~	882	43%
Female	~	~	1,155	57%
Total	39	100%	2,037	100%

^{*}Due to zero or low counts, institution-reported "Non-binary" demographic data are not included.



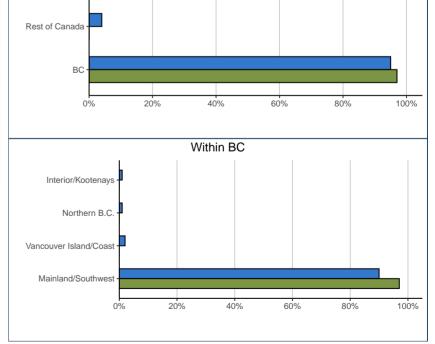
Age (at time of survey):	14.4201		SFU	
< 25	~	~	209	10%
25 to 29	~	~	1,527	75%
30 to 34	~	~	171	8%
35 to 39	0	0%	49	2%
40 to 49	0	0%	60	3%
50 to 64	0	0%	~	~
> 64	0	0%	~	~
Total	39	100%	2,037	100%
Median Age	26		26	
Average (mean) Age	27		27	



Place of Residence

USA

Place of Residence (at time of survey):	14.	14.4201		SFU	
BC - Mainland/Southwest	34	97%	1,659	90%	
BC - Vancouver Island/Coast	0	0%	42	2%	
BC – Northern B.C.	0	0%	22	1%	
BC – Interior/Kootenays	0	0%	24	1%	
BC Subtotal	34	97%	1,747	95%	
Canada – Alberta	0	0%	21	1%	
Canada – Ontario	~	~	40	2%	
Canada - Other	0	0%	15	1%	
U.S.A.	0	0%	14	1%	
Non-BC Subtotal	~	~	90	5%	
Total	~	~	1,837	100%	







EDUCATION EVALUATION AND SKILL DEVELOPMENT

Program Satisfaction:	14.4201		SFU	
Very Satisfied	5	13%	405	20%
Satisfied	25	66%	1,336	67%
Dissatisfied	7	18%	199	10%
Very Dissatisfied	1	3%	44	2%
Total	38	100%	1,984	100%

Usefulness of Knowledge, Skills, and Abilities Acquired during Program in Work:	14.4201		SFU	
Very Useful	9	25%	534	31%
Somewhat Useful	21	58%	867	51%
Not Very Useful	4	11%	225	13%
Not at All Useful	2	6%	72	4%
Total	36	100%	1,698	100%

Took upgrading, access, bridging, or other preparatory courses during or prior to studies:	14.	14.4201		SFU	
Yes	2	5%	163	8%	
No	36	95%	1,823	92%	



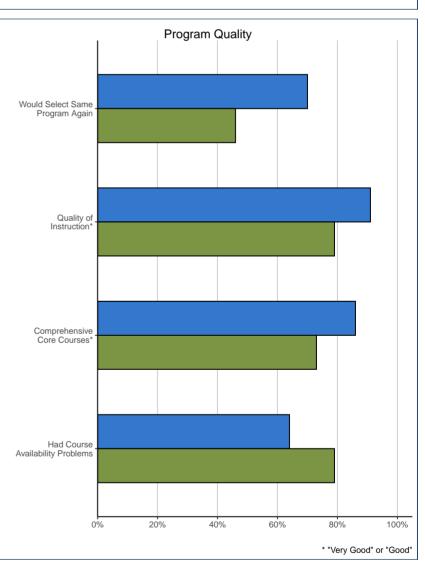
Would select the same program again:	14.4201		SFU	
Yes	16	46%	1,232	70%
No	19	54%	531	30%

Quality of Instruction:	14.4201		SFU	
Very Good	3	8%	440	22%
Good	27	71%	1,384	69%
Poor	7	18%	161	8%
Very Poor	1	3%	23	1%
Total	38	100%	2,008	100%

Comprehensiveness of Core Courses:	14.4	14.4201		SFU	
Very Good	7	18%	459	23%	
Good	21	55%	1,245	63%	
Poor	10	26%	233	12%	
Very Poor	0	0%	38	2%	
Total	38	100%	1.975	100%	

Course Availability:	14.4201		SFU	
Encountered course availability problems	31 79%		1,279 64%	

Financial Constraints:	14.4201		SFU	
Had to interrupt studies for financial reasons	4	10%	246	12%
Had to take program part-time for financial reasons	5	13%	410	20%



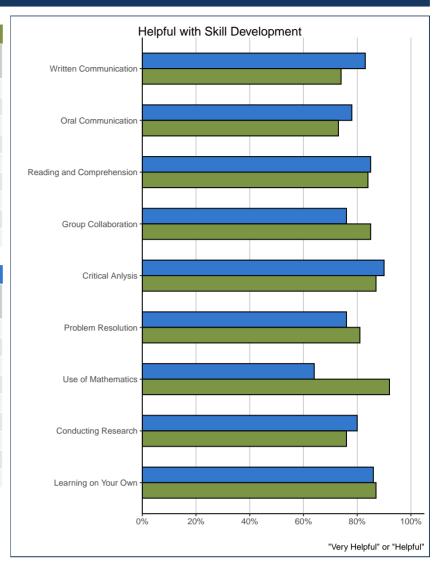




SKILL DEVELOPMENT

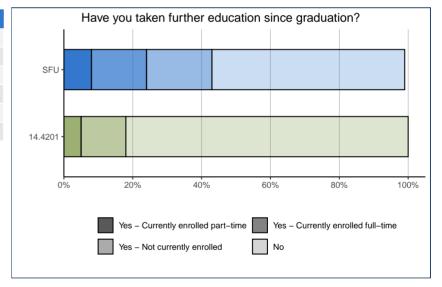
			14.4201		
Skill Development: How helpful was institution?	Very Helpful	Helpful	Not Very Helpful	Not at All Helpful	# Resp.
Written Communication	13%	61%	18%	8%	38
Oral Communication	5%	68%	21%	5%	38
Reading and Comprehension	18%	66%	13%	3%	38
Group Collaboration	31%	54%	15%	0%	39
Critical Anlysis	41%	46%	13%	0%	39
Problem Resolution	32%	49%	14%	5%	37
Use of Mathematics	66%	26%	3%	5%	38
Conducting Research	46%	30%	22%	3%	37
Learning on Your Own	50%	37%	8%	5%	38

			SFU		
Skill Development: How helpful was institution?	Very Helpful	Helpful	Not Very Helpful	Not at All Helpful	# Resp.
Written Communication	28%	55%	14%	3%	1,941
Oral Communication	22%	56%	18%	3%	1,969
Reading and Comprehension	28%	57%	13%	2%	1,970
Group Collaboration	24%	52%	21%	3%	1,980
Critical Anlysis	38%	52%	9%	2%	2,006
Problem Resolution	21%	55%	21%	3%	1,943
Use of Mathematics	19%	45%	27%	9%	1,595
Conducting Research	30%	50%	17%	4%	1,894
Learning on Your Own	38%	48%	12%	2%	1,982

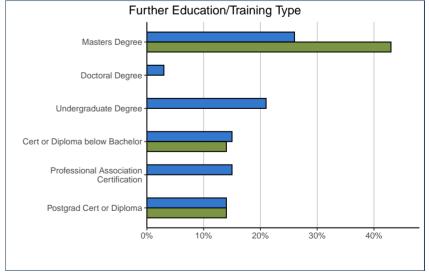


FURTHER EDUCATION

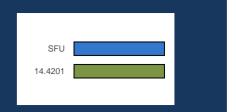
Took further education since 2020 graduation:	14.4201		SFU	
Yes	7	18%	893	44%
Not currently enrolled	5	13%	395	19%
Currently enrolled full-time	2	5%	329	16%
Currently enrolled part-time	0	0%	158	8%
No	32	82%	1,133	56%
Total	39	100%	2,026	100%



Type of Formal Post–Secondary Education:	14.	14.4201		FU
Masters Degree	3	43%	229	26%
Doctoral Degree	0	0%	29	3%
Another Undergraduate Degree	0	0%	188	21%
Certificate or Diploma below Bachelor level	1	14%	136	15%
Professional Association Certification	0	0%	133	15%
Postgraduate Certificate or Diploma	1	14%	119	14%
Other	2	29%	44	5%
Total	7	100%	878	100%



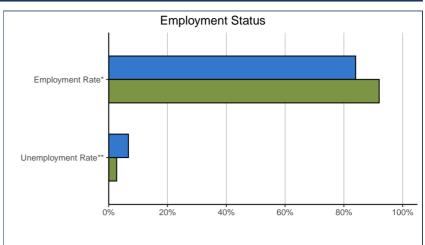




EMPLOYMENT

Labour Fource Status:	14.	14.4201		=U
In Labour Force (working or seeking work)	37	95%	1,830	92%
Not in Labour Force	2	5%	168	8%
Total	39	100%	1,998	100%
Employment:	14.	4201	Si	=U
Employment Rate*	36	92%	1,708	84%
Unemployment Rate**	1	2.7%	122	6.7%

^{*}Percent = Total employed divided by total number of respondents

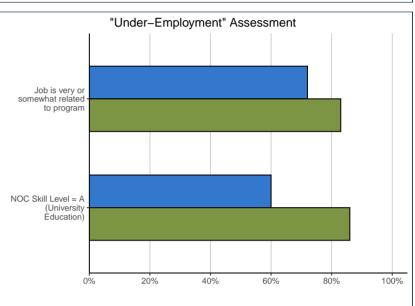


Status of Graduates NOT in Labour Force:	14.4201		SFU	
Attending School FT	1	50%	103	61%
Attending School PT	0	0%	8	5%
Other	1	50%	57	34%
Total NOT in Labour Force	2	100%	168	100%

Primary Employment Type:	14.4201		SFU	
Paid worker	34	97%	1,608	94%
Self-employed	1	3%	96	6%
Total	35	100%	1,704	100%

Job Characteristics:	14.4201		SFU	
I hold more than one job*	4	11%	301	18%
My main job is full-time (>= 30 hours per week)**	34	100%	1,432	89%

^{*}Of total Employed



How related is your main job to your program?	14.4201		SFU	
Very Related	6	17%	624	37%
Somewhat Related	24	67%	605	35%
Not Very Related	3	8%	245	14%
Not at All Related	3	8%	231	14%
Total	36	100%	1,705	100%

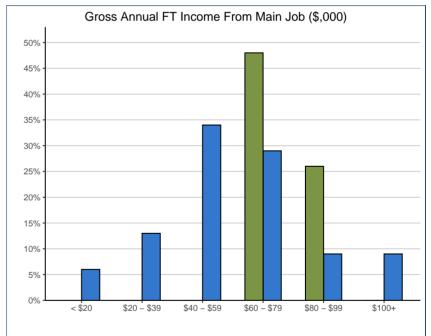
"Under-employment" Assessment:	14.4201		SFU	
Job is very or somewhat related to program	30	83%	1,229	72%
NOC Skill Level = A (University Education)*	25	86%	945	60%

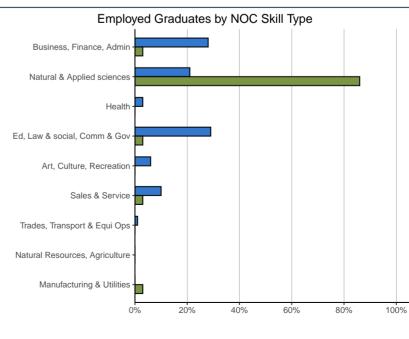
^{*}Of total valid responses

Gross Annual Income from Main Job:*	14.4201		SFU	
Less than \$20,000	~	~	68	6%
\$20,000 to \$39,999	~	~	161	13%
\$40,000 to \$59,999	~	~	413	34%
\$60,000 to \$79,999	13	48%	351	29%
\$80,000 to \$99,999	7	26%	107	9%
\$100,000 and Above	~	~	108	9%
Total	27	100%	1,208	100%
Median Annual Income (full-time) (\$)	71,610		60,000	
Average Annual Income (full-time) (\$)	71,441		66,030	

^{*}Where data provided

NOC Skill Type of Main Job:	14.	14.4201		=U
Business, finance & administration	1	1 3%		28%
Natural & applied sciences & related	25	86%	331	21%
Health		0%	52	3%
Education, law and social, community & government	1	3%	460	29%
Art, culture, recreation & sport	0	0%	100	6%
Sales & service	1	3%	162	10%
Trades, transport & equipment operators & related	0	0%	13	1%
Natural resources, agriculture & related production	0	0%	3	0%
Manufacturing & utilities	1	3%	3	0%
Total	29	100%	1,570	100%





^{**}Percent = Total unemployed divided by total number in Labour Force

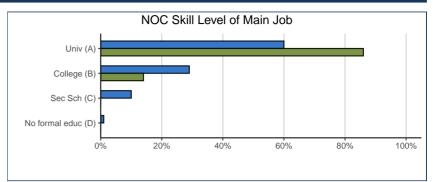
^{**}Of those who provided data on hours/week worked





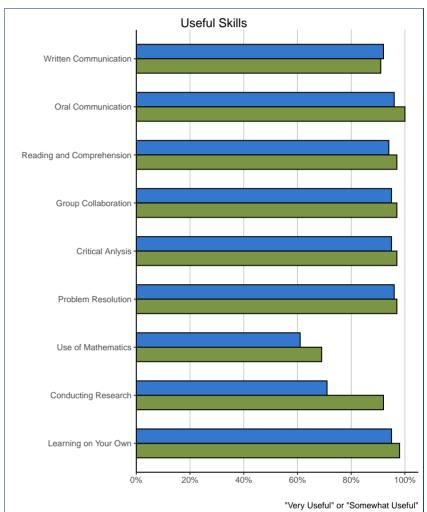
EMPLOYMENT, continued

NOC Skill Level of Main Job:	14.4201		SFU	
A. University education	25 86%		945	60%
B. College education/trade apprenticeship	4	14%	452	29%
C. Secondary school + job-specific training	0	0%	159	10%
D. No formal education	0	0%	18	1%
Total	29	100%	1,574	100%



	14.4201				
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	60%	31%	3%	6%	35
Oral Communication	89%	11%	0%	0%	35
Reading and Comprehension	77%	20%	0%	3%	35
Group Collaboration	83%	14%	3%	0%	35
Critical Anlysis	80%	17%	0%	3%	35
Problem Resolution	80%	17%	0%	3%	35
Use of Mathematics	40%	29%	23%	9%	35
Conducting Research	49%	43%	3%	6%	35
Learning on Your Own	89%	9%	3%	0%	35

	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	63%	29%	5%	3%	1,691
Oral Communication	70%	26%	3%	1%	1,694
Reading and Comprehension	66%	28%	4%	2%	1,692
Group Collaboration	72%	23%	4%	1%	1,695
Critical Anlysis	68%	27%	4%	1%	1,696
Problem Resolution	73%	23%	3%	1%	1,694
Use of Mathematics	26%	35%	23%	15%	1,649
Conducting Research	34%	37%	17%	12%	1,668
Learning on Your Own	66%	29%	4%	2%	1,691



Top 10 Full-	time Occupations of 14.4201	Graduates:	14.4201
NOC	NOC Skill Level	Description	% Employed FT in this Occ.**
2132	A	Mechanical engineers	22%
XXXX	0	Unclassified occupations	14%
*			
*			
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^{*} Data not displayed where n < 5

^{**} Percentages cited are of those employed

Top 10 Full-ti	Top 10 Full-time Occupations of SFU Graduates:		
NOC	NOC Skill Level	Description	% Employed FT in this Occ.**
4032	A	Elementary school and kindergarten teachers	6%
2173	Α	Software engineers and designers	5%
XXXX	0	Unclassified occupations	5%
1123	Α	Professional occupations in advertising, marketing and public relations	4%
4031	Α	Secondary school teachers	4%
2174	Α	Computer programmers and interactive media developers	3%
1111	Α	Financial auditors and accountants	3%
1221	В	Administrative officers	3%
4212	В	Social and community service workers	2%
5241	В	Graphic designers and illustrators	2%

^{*} Data not displayed where n < 5

^{**} Percentages cited are of those employed



EDUCATION FINANCING

Funding Sources (3 sources allowed):*	14.4201		SFU	
Personal savings, investments	11	11 29%		28%
Employment while studying		45%	982	50%
Family/Friends	27	71%	1,299	66%
Personal bank loans	1	3%	78	4%
Government student loans	7	18%	509	26%
Scholarships/Bursaries/Grants	9	24%	562	29%
Other	16	42%	448	23%
Total	38		1,968	

^{*} Percentage of respondents who identified this source

Financial Debt Incurred to Finance Bac. Ed.:*	14.4201		SFU	
Incurred any form of financial debt	13	34%	690	35%
Incurred government-sponsored student loan debt	8	21%	564	28%

^{*} Percentage of respondents who provided data



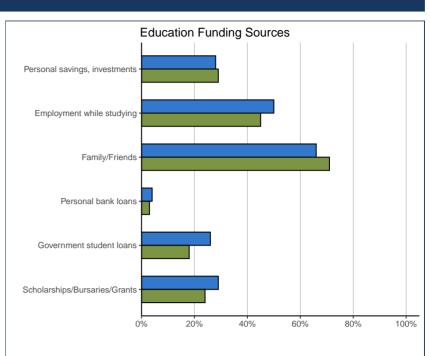
^{*} Includes only cases where financial debt was incurred

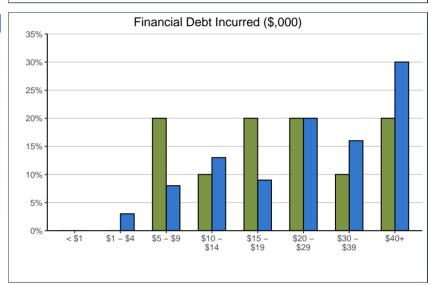


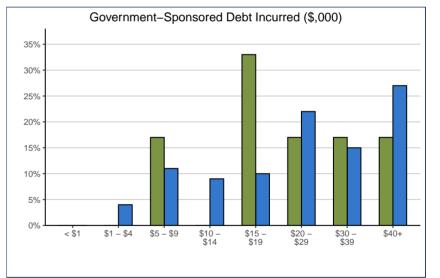
^{*} Includes only cases where government-sponsored debt was incurred

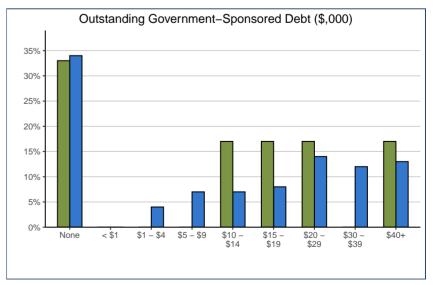


^{*} Includes only cases where government–sponsored debt was incurred, and valid "amount remaining" was provided









^{**} Median amounts shown are based on those who had remaining government student loan debt