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

Detailed Summary of Survey Results
University of British Columbia
30.0101: Biological and physical sciences

BCStudent Outcomes
Shaping Post-Secondary Education

UBC	
30.0101	

RESPONSE RATE

Survey Response Rate:	30.0101		UBC	
Baccalaureate Graduates Survey Cohort	197	100%	6,879	100%
Survey Respondents and Response Rate	74	38%	2,273	33%

Response Rate
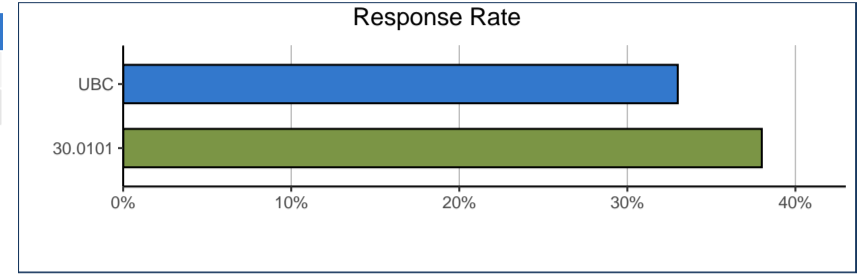
DEMOGRAPHIC INFORMATION

Self–Reporting Subgroups:	30.0101		UBC	
Disabled	11	16%	292	14%
International	~	~	459	20%
Aboriginal	0	0%	41	2%

Self–Reporting Subgroups
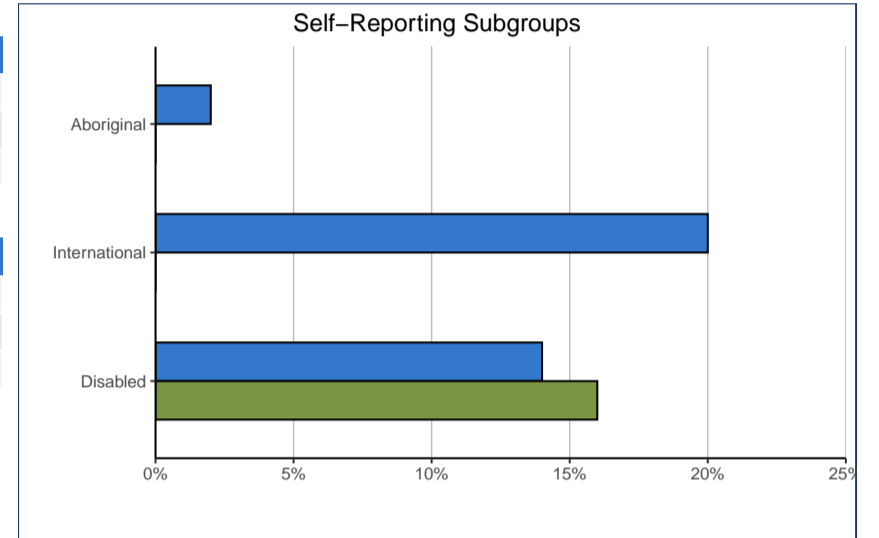
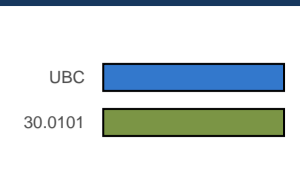| Gender:*	30.0101		UBC	
Male	25	34%	953	42%
Female	49	66%	1,320	58%
Total	74	100%	2,273	100%

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

Age (at time of survey):	30.0101		UBC	
< 25	~	~	520	23%
25 to 29	49	66%	1,549	68%
30 to 34	~	~	133	6%
35 to 39	0	0%	39	2%
40 to 49	0	0%	21	1%
50 to 64	0	0%	~	~
> 64	0	0%	~	~
Total	74	100%	2,269	100%
Median Age	25		25	
Average (mean) Age	25		26	

Age Distribution
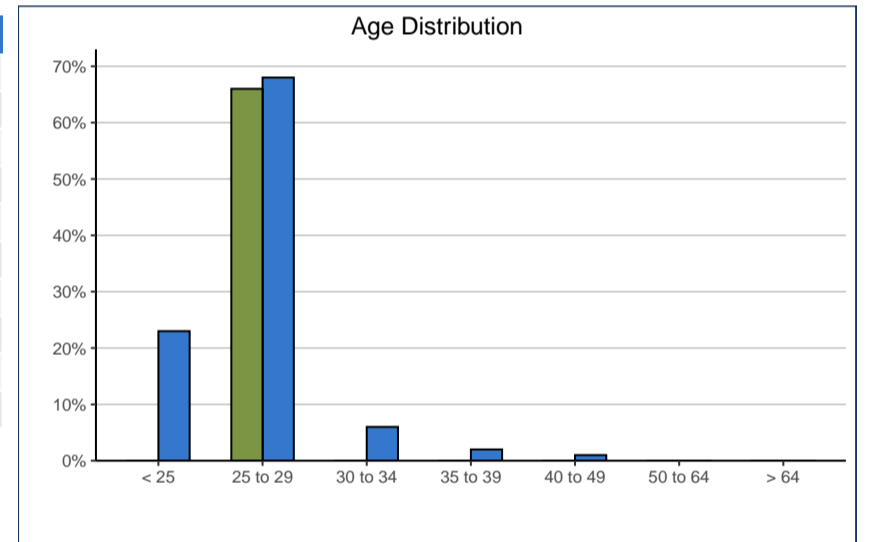
Place of Residence (at time of survey):	30.0101		UBC	
BC – Mainland/Southwest	65	90%	1,615	81%
BC – Vancouver Island/Coast	0	0%	50	3%
BC – Northern B.C.	0	0%	12	1%
BC – Interior/Kootenays	0	0%	48	2%
BC Subtotal	65	90%	1,725	86%
Canada – Alberta	~	~	77	4%
Canada – Ontario	~	~	112	6%
Canada – Other	~	~	42	2%
U.S.A.	~	~	42	2%
Non–BC Subtotal	7	10%	273	14%
Total	72	100%	1,998	100%

Place of Residence

Within BC

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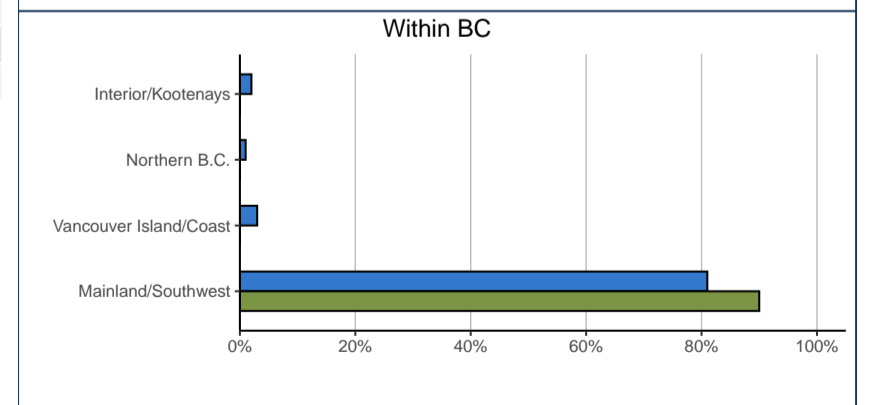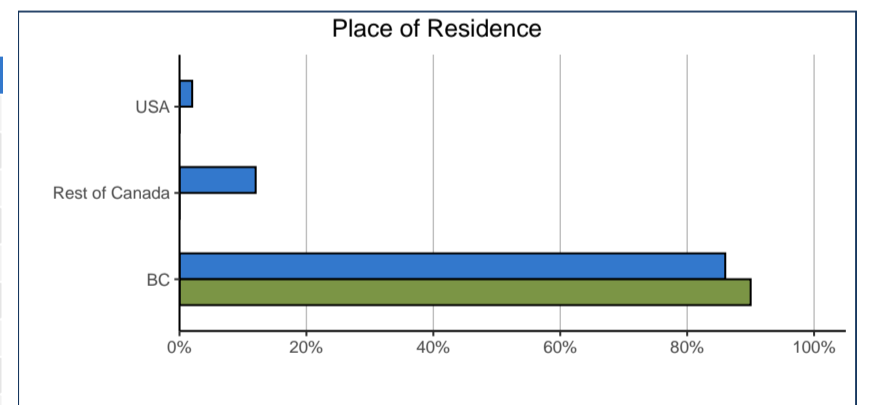
EDUCATION EVALUATION AND SKILL DEVELOPMENT

Program Satisfaction:	30.0101		UBC	
Very Satisfied	15	21%	490	22%
Satisfied	53	74%	1,486	66%
Dissatisfied	3	4%	221	10%
Very Dissatisfied	1	1%	44	2%
Total	72	100%	2,241	100%

Usefulness of Knowledge, Skills, and Abilities Acquired during Program in Work:	30.0101		UBC	
Very Useful	7	15%	548	31%
Somewhat Useful	27	59%	924	52%
Not Very Useful	10	22%	242	14%
Not at All Useful	2	4%	60	3%
Total	46	100%	1,774	100%

Took upgrading, access, bridging, or other preparatory courses during or prior to studies:	30.0101		UBC	
Yes	1	1%	127	6%
No	73	99%	2,107	94%
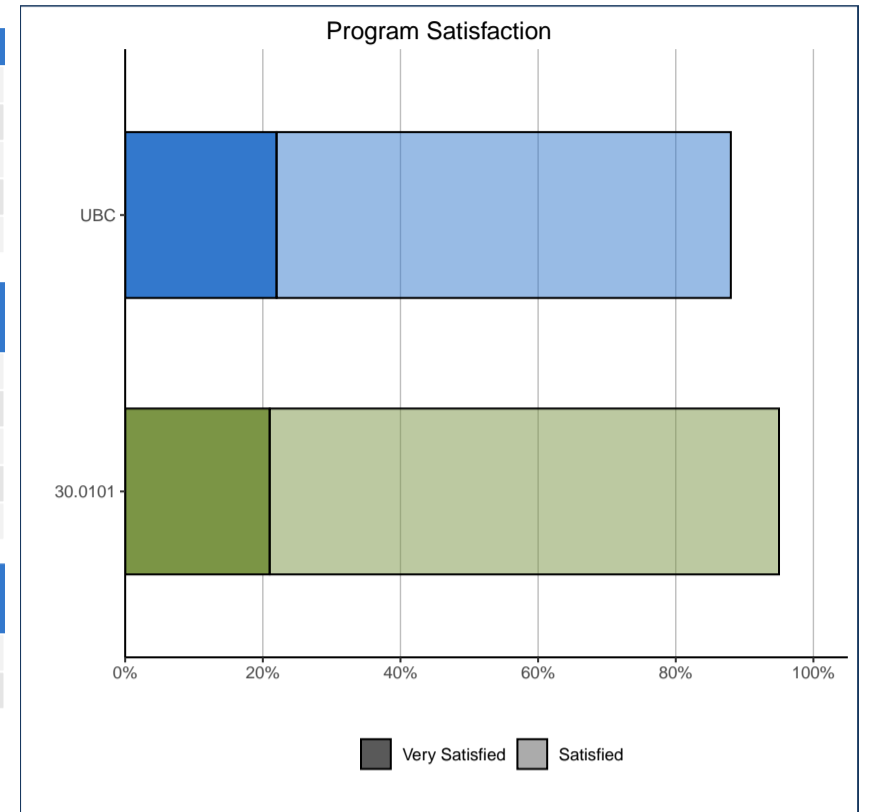
Would select the same program again:	30.0101		UBC	
Yes	31	48%	1,303	67%
No	34	52%	656	33%

Quality of Instruction:	30.0101		UBC	
Very Good	15	20%	588	26%
Good	51	69%	1,467	65%
Poor	7	9%	172	8%
Very Poor	1	1%	30	1%
Total	74	100%	2,257	100%
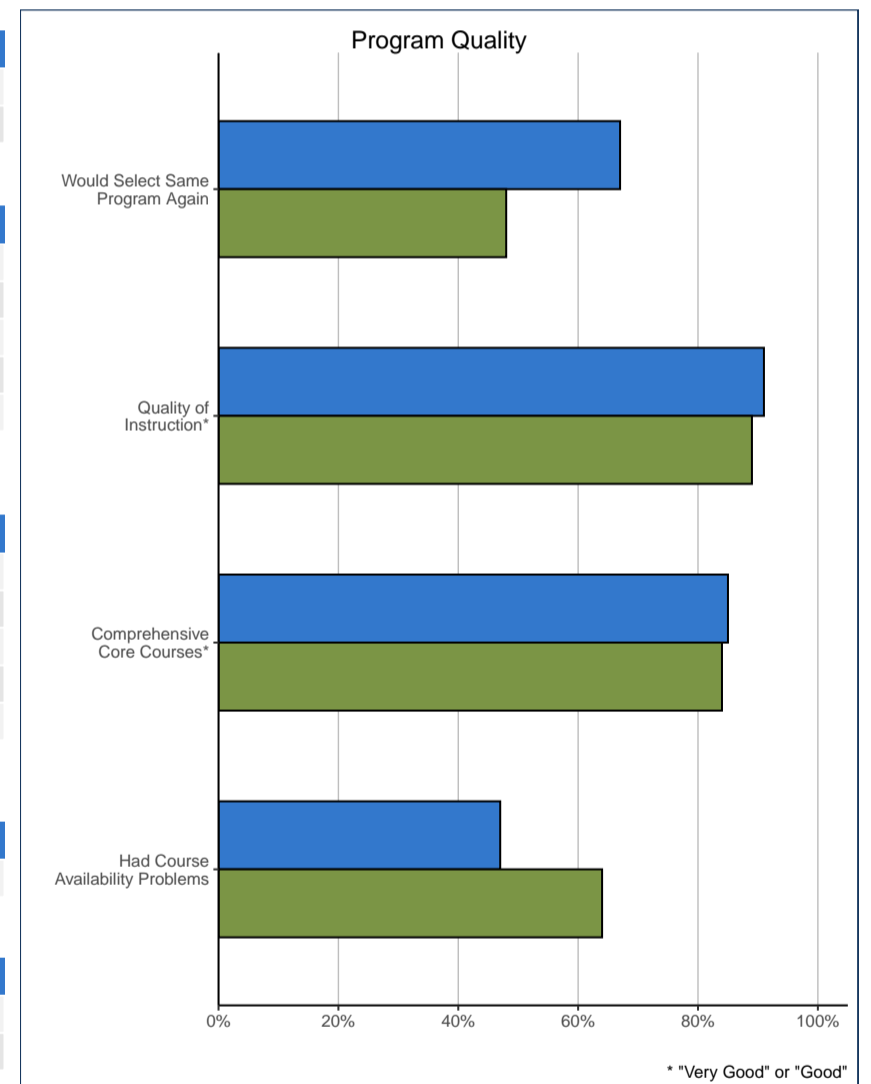
Comprehensiveness of Core Courses:	30.0101		UBC	
Very Good	16	23%	535	24%
Good	42	61%	1,356	61%
Poor	10	14%	287	13%
Very Poor	1	1%	45	2%
Total	69	100%	2,223	100%

Course Availability:	30.0101		UBC	
Encountered course availability problems	47	64%	1,043	47%

Financial Constraints:	30.0101		UBC	
Had to interrupt studies for financial reasons	4	6%	155	7%
Had to take program part–time for financial reasons	9	12%	224	10%

Program Satisfaction

Program Quality

* "Very Good" or "Good"

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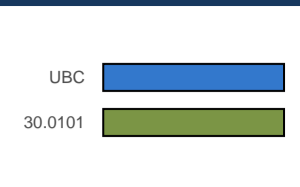
UBC
30.0101

SKILL DEVELOPMENT

Skill Development: How helpful was institution?	30.0101				
	Very Helpful	Helpful	Not Very Helpful	Not at All Helpful	# Resp.
Written Communication	22%	53%	24%	1%	72
Oral Communication	18%	53%	26%	3%	72
Reading and Comprehension	27%	61%	11%	1%	74
Group Collaboration	22%	57%	18%	4%	74
Critical Anlysis	41%	52%	5%	1%	73
Problem Resolution	20%	61%	17%	3%	71
Use of Mathematics	22%	49%	25%	4%	69
Conducting Research	28%	47%	24%	1%	72
Learning on Your Own	44%	43%	11%	1%	72

Skill Development: How helpful was institution?	UBC				
	Very Helpful	Helpful	Not Very Helpful	Not at All Helpful	# Resp.
Written Communication	24%	56%	17%	3%	2,198
Oral Communication	22%	55%	20%	4%	2,212
Reading and Comprehension	31%	55%	12%	2%	2,222
Group Collaboration	24%	52%	20%	4%	2,230
Critical Anlysis	43%	48%	8%	2%	2,253
Problem Resolution	24%	55%	18%	3%	2,188
Use of Mathematics	20%	46%	24%	10%	1,801
Conducting Research	29%	48%	19%	4%	2,159
Learning on Your Own	39%	49%	10%	2%	2,236

Helpful with Skill Development

"Very Helpful" or "Helpful"
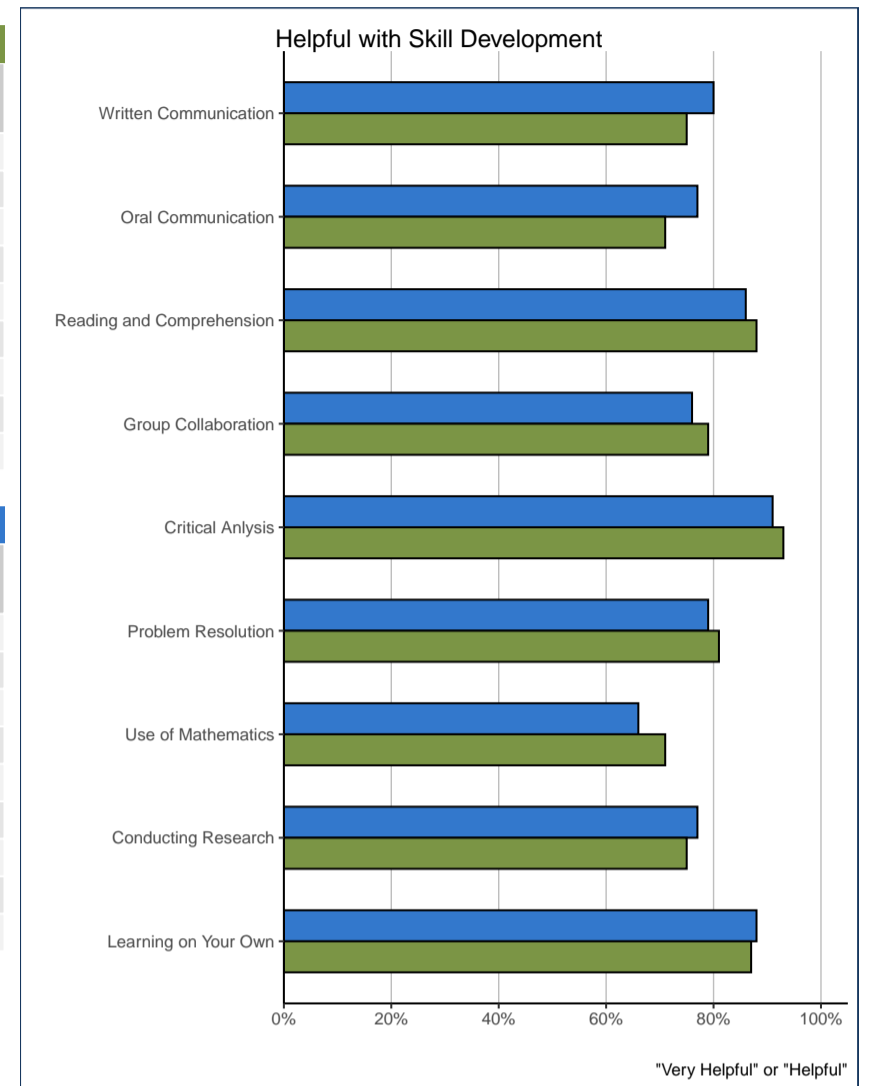
FURTHER EDUCATION

Took further education since 2020 graduation:	30.0101		UBC	
Yes	55	74%	1,119	49%
Not currently enrolled	17	23%	454	20%
Currently enrolled full–time	36	49%	559	25%
Currently enrolled part–time	2	3%	99	4%
No	19	26%	1,144	51%
Total	74	100%	2,263	100%

Have you taken further education since graduation?

- Yes – Currently enrolled part–time
- Yes – Currently enrolled full–time
- Yes – Not currently enrolled
- No
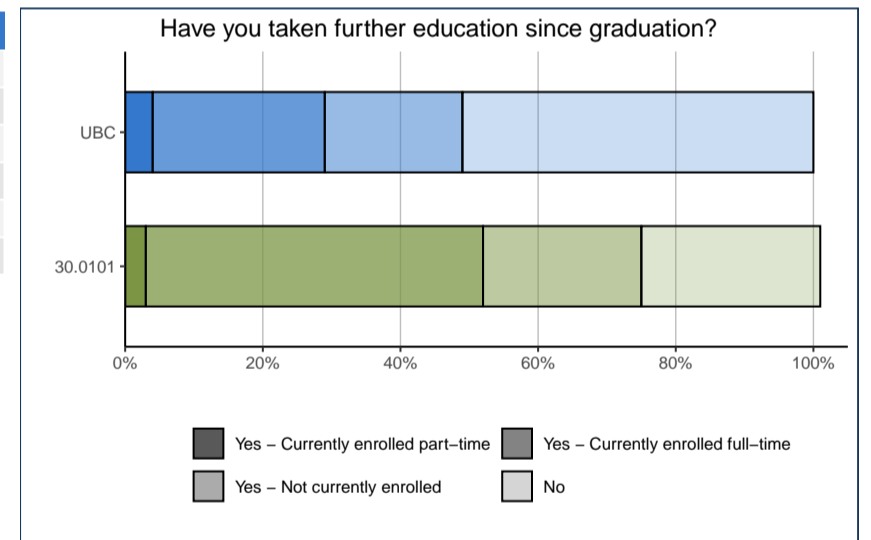
Type of Formal Post–Secondary Education:	30.0101		UBC	
Masters Degree	18	33%	467	42%
Doctoral Degree	4	7%	82	7%
Another Undergraduate Degree	22	40%	213	19%
Certificate or Diploma below Bachelor level	4	7%	133	12%
Professional Association Certification	0	0%	86	8%
Postgraduate Certificate or Diploma	3	5%	77	7%
Other	4	7%	52	5%
Total	55	100%	1,110	100%

Further Education/Training Type

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University of British Columbia
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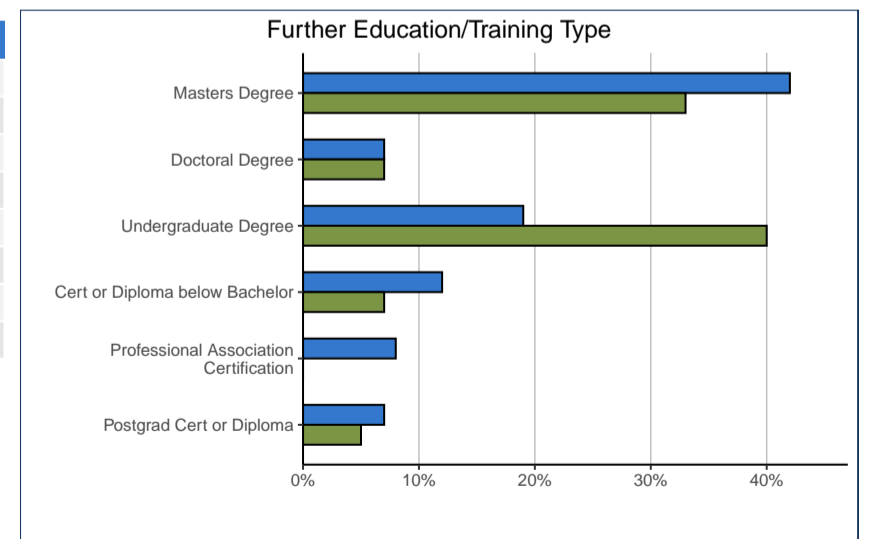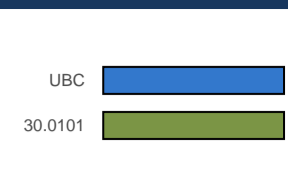
EMPLOYMENT

Labour Fource Status:	30.0101		UBC	
In Labour Force (working or seeking work)	53	75%	1,931	87%
Not in Labour Force	18	25%	296	13%
Total	71	100%	2,227	100%

Employment:	30.0101		UBC	
Employment Rate*	46	62%	1,788	79%
Unemployment Rate**	7	13.2%	143	7.4%

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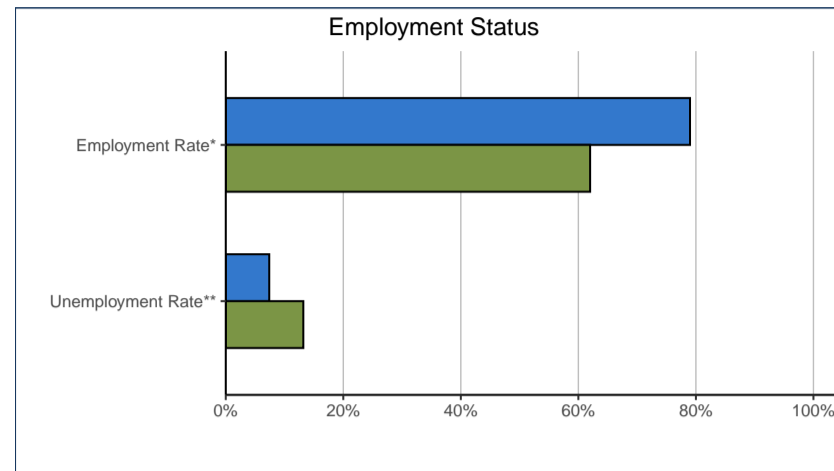
Employment Status

Status of Graduates NOT in Labour Force:	30.0101		UBC	
Attending School FT	16	89%	238	80%
Attending School PT	1	6%	2	1%
Other	1	6%	56	19%
Total NOT in Labour Force	18	100%	296	100%

Primary Employment Type:	30.0101		UBC	
Paid worker	44	96%	1,679	94%
Self–employed	2	4%	106	6%
Total	46	100%	1,785	100%

Job Characteristics:	30.0101		UBC	
I hold more than one job*	17	37%	300	17%
My main job is full–time (>= 30 hours per week)**	35	80%	1,465	86%

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

"Under–Employment" Assessment
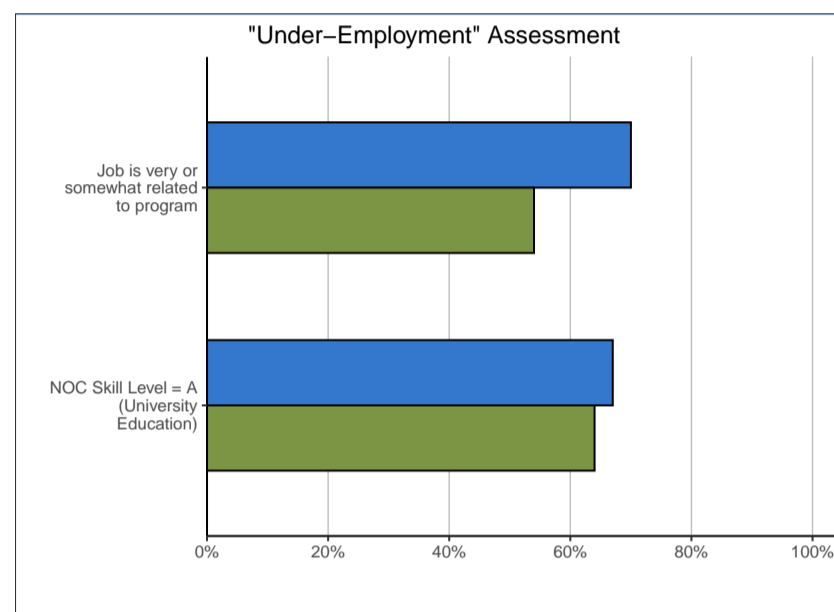
How related is your main job to your program?	30.0101		UBC	
Very Related	7	15%	628	35%
Somewhat Related	18	39%	621	35%
Not Very Related	11	24%	271	15%
Not at All Related	10	22%	264	15%
Total	46	100%	1,784	100%

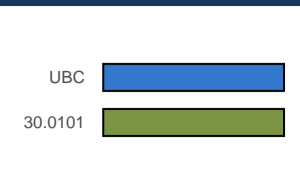| "Under–employment" Assessment:	30.0101		UBC	
Job is very or somewhat related to program	25	54%	1,249	70%
NOC Skill Level = A (University Education)*	27	64%	1,126	67%

*Of total valid responses

Gross Annual Income from Main Job:*	30.0101		UBC	
Less than $20,000	~	~	112	8%
$20,000 to $39,999	6	17%	151	11%
$40,000 to $59,999	10	29%	321	24%
$60,000 to $79,999	10	29%	326	24%
$80,000 to $99,999	~	~	195	14%
$100,000 and Above	~	~	243	18%
Total	35	100%	1,348	100%
Median Annual Income (full–time) ($)	61,703		70,000	
Average Annual Income (full–time) ($)	63,261		79,724	

*Where data provided

Gross Annual FT Income From Main Job ($,000)
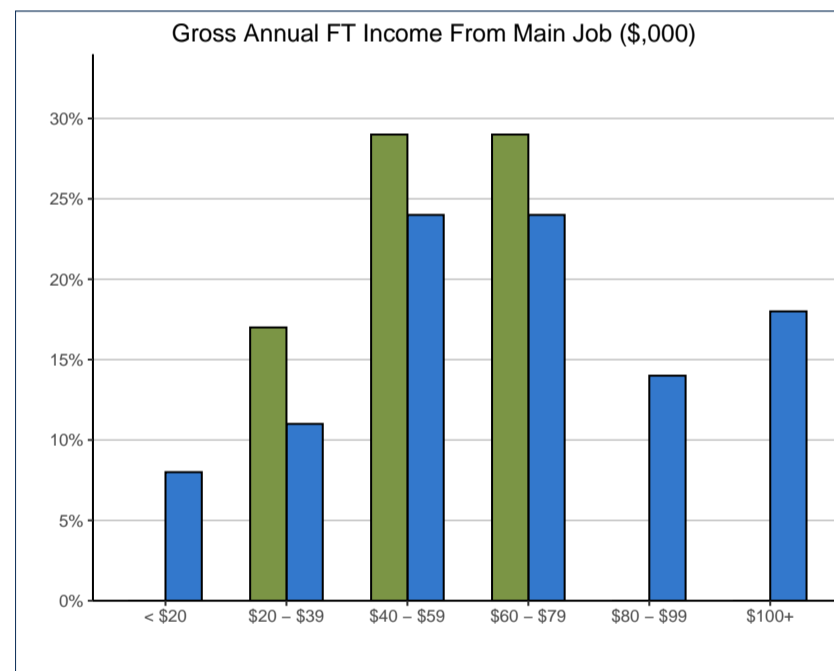
NOC Skill Type of Main Job:	30.0101		UBC	
Business, finance & administration	12	29%	429	26%
Natural & applied sciences & related	7	17%	459	28%
Health	5	12%	183	11%
Education, law and social, community & government	14	33%	361	22%
Art, culture, recreation & sport	1	2%	87	5%
Sales & service	3	7%	118	7%
Trades, transport & equipment operators & related	0	0%	11	1%
Natural resources, agriculture & related production	0	0%	13	1%
Manufacturing & utilities	0	0%	8	0%
Total	42	100%	1,669	100%

Employed Graduates by NOC Skill Type

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30.0101: Biological and physical sciences

| UBC | |
| 30.0101 | |
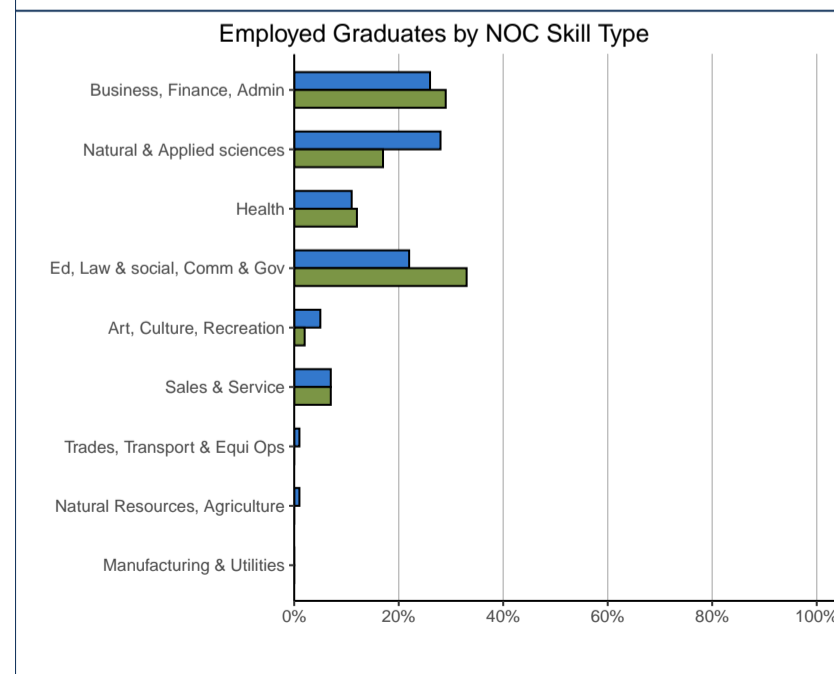
EMPLOYMENT, continued

NOC Skill Level of Main Job:	30.0101		UBC	
A. University education	27	64%	1,126	67%
B. College education/trade apprenticeship	11	26%	415	25%
C. Secondary school + job–specific training	3	7%	121	7%
D. No formal education	1	2%	14	1%
Total	42	100%	1,676	100%
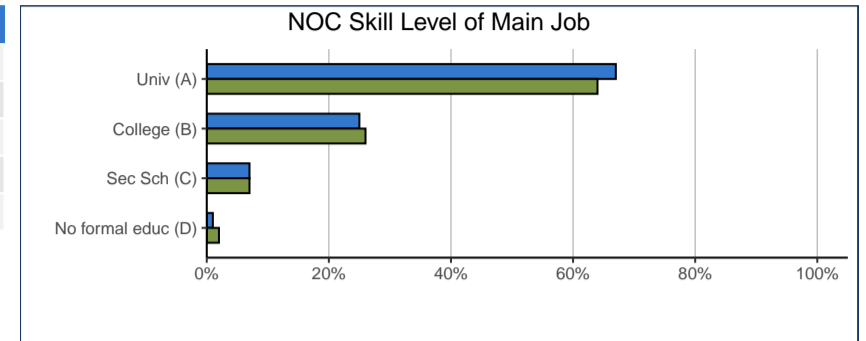
NOC Skill Level of Main Job

	30.0101			
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%	28%	7%	2%	46
Oral Communication	70%	22%	4%	4%	46
Reading and Comprehension	52%	39%	7%	2%	46
Group Collaboration	67%	28%	4%	0%	46
Critical Anlysis	63%	28%	7%	2%	46
Problem Resolution	61%	28%	9%	2%	46
Use of Mathematics	20%	40%	24%	16%	45
Conducting Research	27%	36%	22%	16%	45
Learning on Your Own	41%	52%	2%	4%	46
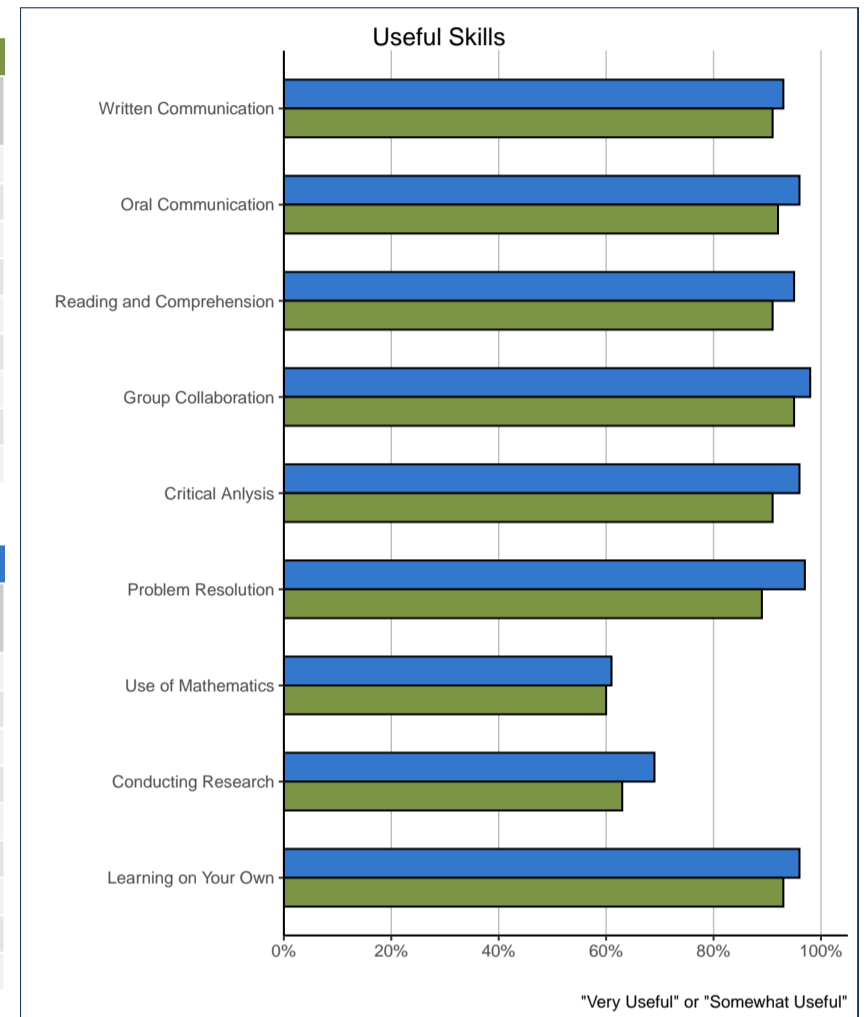
	UBC			
How useful are the following skills and abilities in doing your main job?	**Very Useful**	**Somewhat Useful**	**Not Very Useful**	**Not at All Useful**	**# Resp.**
Written Communication	66%	27%	6%	2%	1,772
Oral Communication	75%	21%	3%	1%	1,774
Reading and Comprehension	70%	25%	4%	1%	1,772
Group Collaboration	78%	20%	3%	0%	1,773
Critical Anlysis	73%	23%	3%	1%	1,771
Problem Resolution	77%	20%	2%	1%	1,766
Use of Mathematics	24%	37%	24%	16%	1,739
Conducting Research	36%	33%	19%	12%	1,744
Learning on Your Own	69%	27%	3%	1%	1,771

Useful Skills

"Very Useful" or "Somewhat Useful"

Top 10 Full–time Occupations of 30.0101 Graduates:			30.0101
NOC	**NOC Skill Level**	**Description**	**% Employed FT in this Occ.****
4012	A	Post–secondary teaching and research assistants	13%
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* Data not displayed where n < 5
** Percentages cited are of those employed

Top 10 Full–time Occupations of UBC Graduates:			UBC
NOC	**NOC Skill Level**	**Description**	**% Employed FT in this Occ.****
2173	A	Software engineers and designers	6%
XXXX	O	Unclassified occupations	4%
2174	A	Computer programmers and interactive media developers	3%
4112	A	Lawyers and Quebec notaries	3%
1123	A	Professional occupations in advertising, marketing and public relations	3%
4012	A	Post–secondary teaching and research assistants	2%
1112	A	Financial and investment analysts	2%
1111	A	Financial auditors and accountants	2%
3131	A	Pharmacists	2%
3012	A	Registered nurses and registered psychiatric nurses	2%

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

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EDUCATION FINANCING

Funding Sources (3 sources allowed):*	30.0101		UBC	
Personal savings, investments	24	35%	624	28%
Employment while studying	28	41%	1,016	46%
Family/Friends	53	77%	1,541	70%
Personal bank loans	5	7%	116	5%
Government student loans	25	36%	704	32%
Scholarships/Bursaries/Grants	20	29%	771	35%
Other	10	14%	506	23%
Total	69		2,213	

* Percentage of respondents who identified this source

Financial Debt Incurred to Finance Bac. Ed.:*	30.0101		UBC	
Incurred any form of financial debt	30	43%	915	41%
Incurred government–sponsored student loan debt	28	39%	777	35%

* Percentage of respondents who provided data

Financial Debt Amount:*	30.0101		UBC	
< $1,000	0	0%	1	0%
$1,000 to $4,999	1	5%	11	1%
$5,000 to $9,999	1	5%	41	5%
$10,000 to $14,999	1	5%	56	8%
$15,000 to $19,999	0	0%	47	6%
$20,000 to $29,999	6	30%	138	18%
$30,000 to $39,999	4	20%	143	19%
$40,000 or More	7	35%	309	41%
Total	20	100%	746	100%
Median Financial Debt ($)	30,000		33,000	

* Includes only cases where financial debt was incurred

Gov't–Sponsored Student Loan Debt Amount:*	30.0101		UBC	
< $1,000	0	0%	1	0%
$1,000 to $4,999	0	0%	17	3%
$5,000 to $9,999	0	0%	25	4%
$10,000 to $14,999	1	6%	51	9%
$15,000 to $19,999	0	0%	43	7%
$20,000 to $29,999	7	41%	130	22%
$30,000 to $39,999	3	18%	119	20%
$40,000 or More	6	35%	199	34%
Total	17	100%	585	100%
Median Gov't–Sponsored Loan Debt ($)	30,000		30,000	

* Includes only cases where government–sponsored debt was incurred

Gov't–Sponsored Loan Debt Outstanding:*	30.0101		UBC	
None – Loan repaid in full	6	33%	206	32%
< $1,000	0	0%	1	0%
$1,000 to $4,999	0	0%	15	2%
$5,000 to $9,999	0	0%	35	5%
$10,000 to $14,999	0	0%	42	7%
$15,000 to $19,999	1	6%	42	7%
$20,000 to $29,999	3	17%	103	16%
$30,000 to $39,999	4	22%	81	13%
$40,000 or More	4	22%	119	18%
Total	18	100%	644	100%
Median Gov't–Sponsored Loan Debt Outstanding** ($)	32,000		28,000	

* 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

Education Funding Sources

Financial Debt Incurred ($,000)

Government–Sponsored Debt Incurred ($,000)

Outstanding Government–Sponsored Debt ($,000)