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

Detailed Summary of Survey Results
All Institutions
14.1801: Materials engineering

| | |
|---|---|
| SYSTEM | ▬ |
| 14.1801 | ▬ |

## RESPONSE RATE

| Survey Response Rate: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Baccalaureate Graduates Survey Cohort | 40 | 100% | 25,962 | 100% |
| Survey Respondents and Response Rate | 19 | 48% | 8,603 | 33% |

### Response Rate
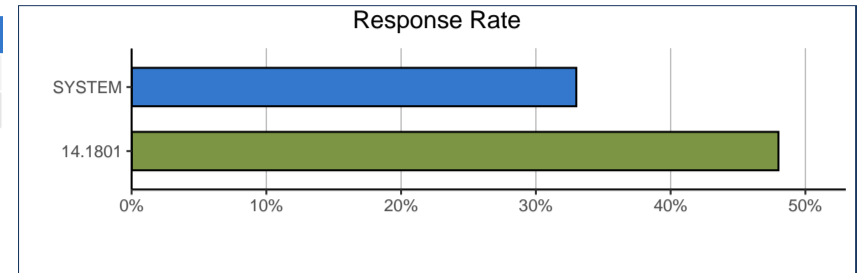


## DEMOGRAPHIC INFORMATION

| Self–Reporting Subgroups: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Disabled | ~ | ~ | 1,079 | 13% |
| International | 5 | 26% | 1,153 | 13% |
| Aboriginal | 0 | 0% | 330 | 5% |

| Gender:* | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Male | 8 | 42% | 3,534 | 41% |
| Female | 11 | 58% | 5,051 | 59% |
| Total | 19 | 100% | 8,585 | 100% |
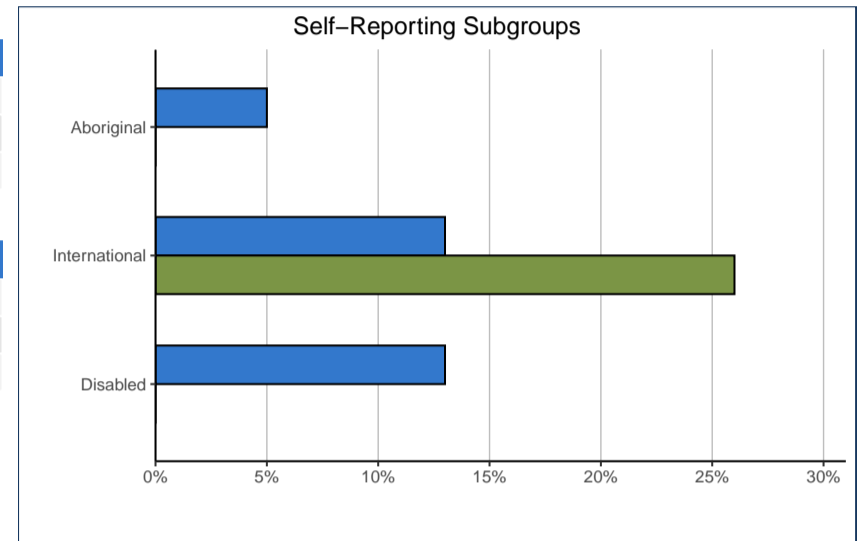
*Due to zero or low counts, institution–reported "Non–binary" demographic data are not included.

### Self–Reporting Subgroups



| Age (at time of survey): | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| < 25 | ~ | ~ | 1,417 | 17% |
| 25 to 29 | ~ | ~ | 5,150 | 60% |
| 30 to 34 | ~ | ~ | 994 | 12% |
| 35 to 39 | 0 | 0% | 417 | 5% |
| 40 to 49 | 0 | 0% | 407 | 5% |
| 50 to 64 | 0 | 0% | 175 | 2% |
| > 64 | 0 | 0% | 26 | 0% |
| Total | 19 | 100% | 8,586 | 100% |
| Median Age | 25 | | 26 | |
| Average (mean) Age | 26 | | 28 | |

### Age Distribution
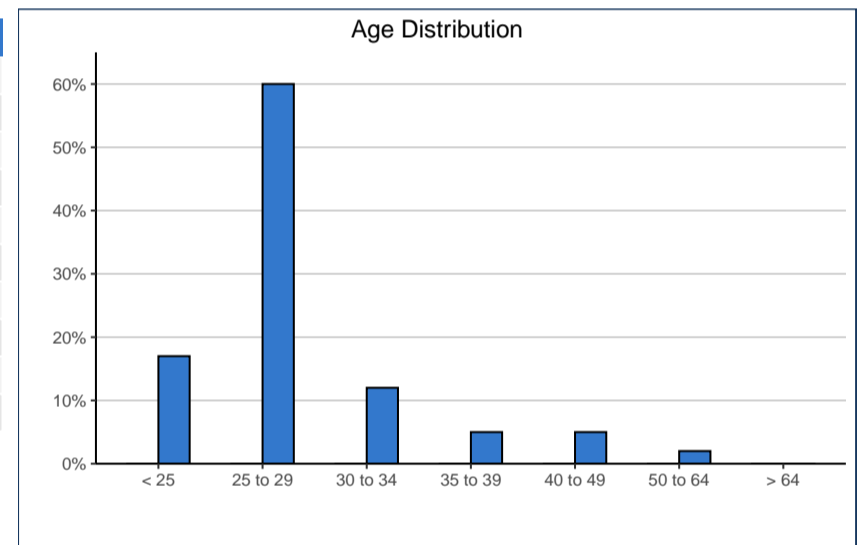


| Place of Residence (at time of survey): | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| BC – Mainland/Southwest | 14 | 78% | 4,824 | 64% |
| BC – Vancouver Island/Coast | 0 | 0% | 1,065 | 14% |
| BC – Northern B.C. | 0 | 0% | 225 | 3% |
| BC – Interior/Kootenays | 0 | 0% | 673 | 9% |
| BC Subtotal | 14 | 78% | 6,787 | 89% |
| Canada – Alberta | ~ | ~ | 328 | 4% |
| Canada – Ontario | ~ | ~ | 239 | 3% |
| Canada – Other | 0 | 0% | 165 | 2% |
| U.S.A. | ~ | ~ | 75 | 1% |
| Non–BC Subtotal | ~ | ~ | 807 | 11% |
| Total | 18 | 100% | 7,594 | 100% |

### Place of Residence



### Within BC

**BC Student Outcomes**

Detailed Summary of Survey Results
All Institutions
14.1801: Materials engineering
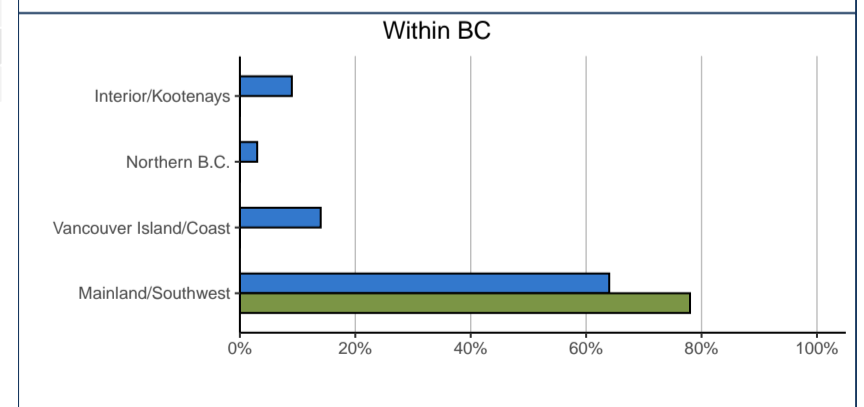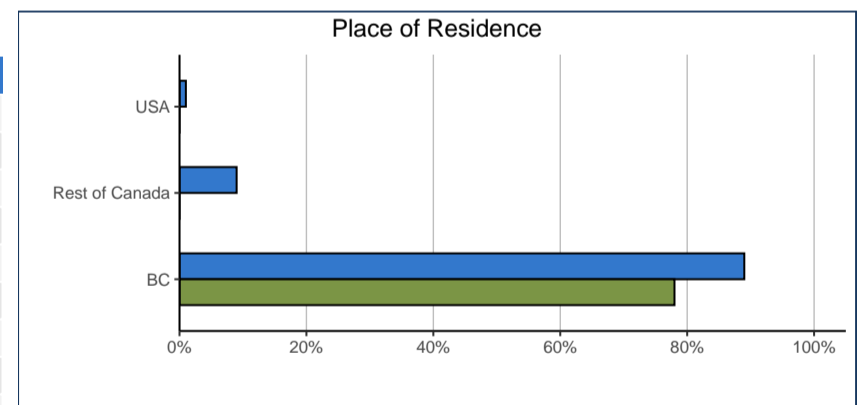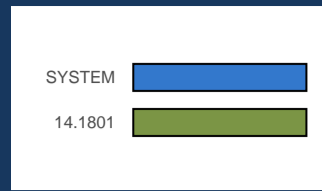
SYSTEM
14.1801

## EDUCATION EVALUATION AND SKILL DEVELOPMENT

| Program Satisfaction: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Very Satisfied | 1 | 5% | 2,262 | 27% |
| Satisfied | 15 | 79% | 5,296 | 62% |
| Dissatisfied | 3 | 16% | 740 | 9% |
| Very Dissatisfied | 0 | 0% | 184 | 2% |
| Total | 19 | 100% | 8,482 | 100% |

| Usefulness of Knowledge, Skills, and Abilities Acquired during Program in Work: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Very Useful | 4 | 25% | 2,704 | 39% |
| Somewhat Useful | 7 | 44% | 3,247 | 46% |
| Not Very Useful | 2 | 13% | 814 | 12% |
| Not at All Useful | 3 | 19% | 250 | 4% |
| Total | 16 | 100% | 7,015 | 100% |

| Took upgrading, access, bridging, or other preparatory courses during or prior to studies: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Yes | 1 | 6% | 818 | 10% |
| No | 17 | 94% | 7,545 | 90% |

| Would select the same program again: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Yes | 8 | 53% | 5,501 | 73% |
| No | 7 | 47% | 2,019 | 27% |

| Quality of Instruction: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Very Good | 2 | 11% | 2,328 | 27% |
| Good | 15 | 79% | 5,423 | 64% |
| Poor | 2 | 11% | 649 | 8% |
| Very Poor | 0 | 0% | 131 | 2% |
| Total | 19 | 100% | 8,531 | 100% |

| Comprehensiveness of Core Courses: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Very Good | 2 | 11% | 2,206 | 26% |
| Good | 14 | 74% | 5,161 | 61% |
| Poor | 3 | 16% | 862 | 10% |
| Very Poor | 0 | 0% | 171 | 2% |
| Total | 19 | 100% | 8,400 | 100% |

| Course Availability: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Encountered course availability problems | 6 | 32% | 4,193 | 50% |

| Financial Constraints: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Had to interrupt studies for financial reasons | 1 | 5% | 926 | 11% |
| Had to take program part–time for financial reasons | 0 | 0% | 1,545 | 18% |
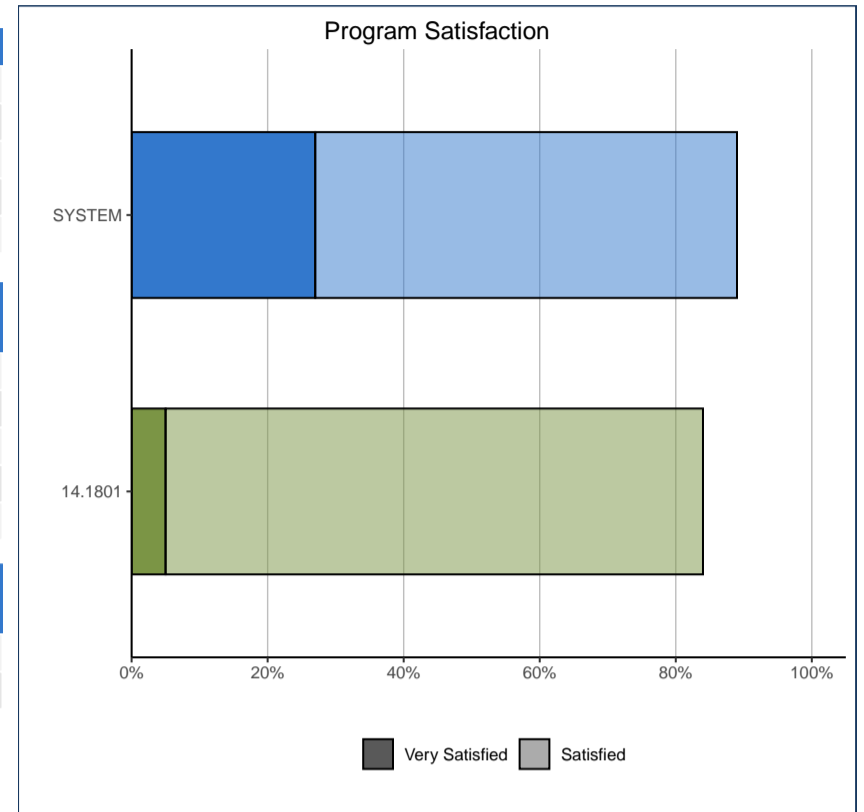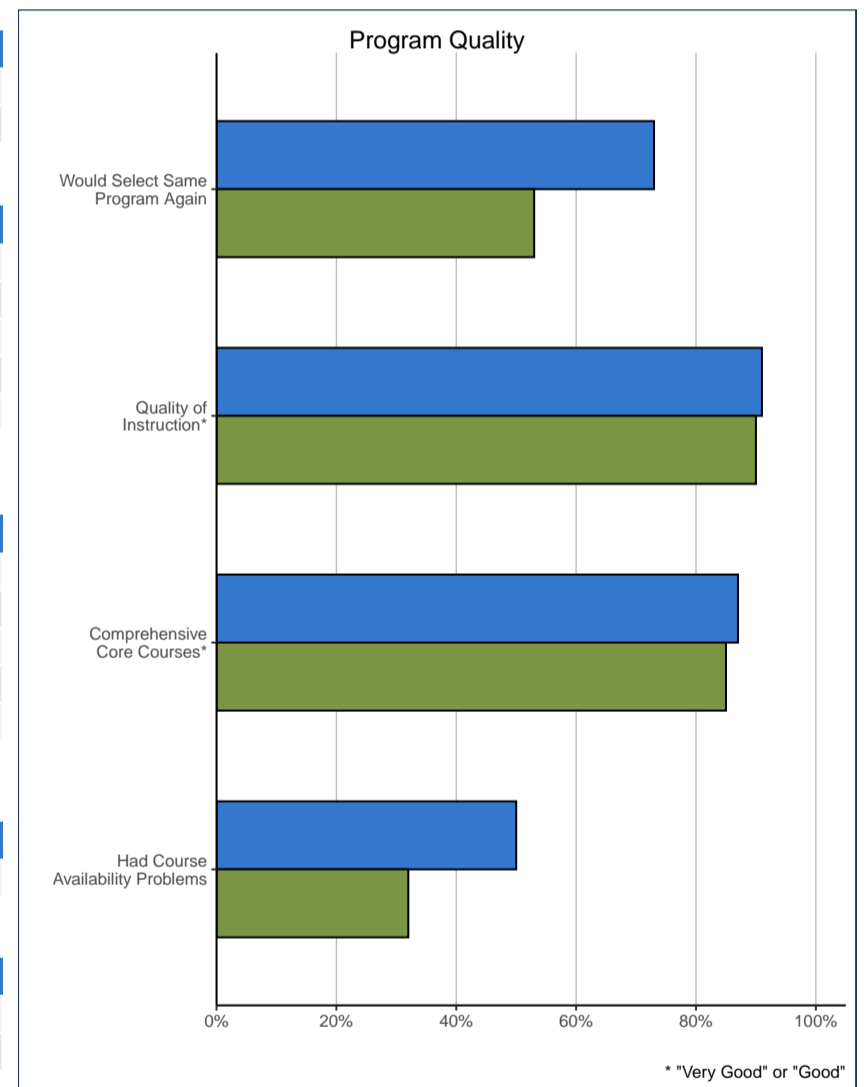
### Program Satisfaction



Legend: Very Satisfied, Satisfied

### Program Quality



Would Select Same Program Again
Quality of Instruction*
Comprehensive Core Courses*
Had Course Availability Problems

* "Very Good" or "Good"

BC Student Outcomes

Detailed Summary of Survey Results
All Institutions
14.1801: Materials engineering
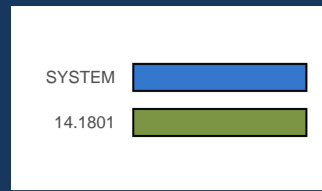
SYSTEM
14.1801

## SKILL DEVELOPMENT

| Skill Development: How helpful was institution? | 14.1801 | | | | |
|---|---|---|---|---|---|
| | Very Helpful | Helpful | Not Very Helpful | Not at All Helpful | # Resp. |
| Written Communication | 16% | 58% | 26% | 0% | 19 |
| Oral Communication | 11% | 74% | 11% | 5% | 19 |
| Reading and Comprehension | 11% | 74% | 16% | 0% | 19 |
| Group Collaboration | 37% | 42% | 21% | 0% | 19 |
| Critical Anlysis | 42% | 47% | 5% | 5% | 19 |
| Problem Resolution | 21% | 63% | 16% | 0% | 19 |
| Use of Mathematics | 21% | 68% | 11% | 0% | 19 |
| Conducting Research | 5% | 74% | 16% | 5% | 19 |
| Learning on Your Own | 37% | 53% | 11% | 0% | 19 |

| 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"
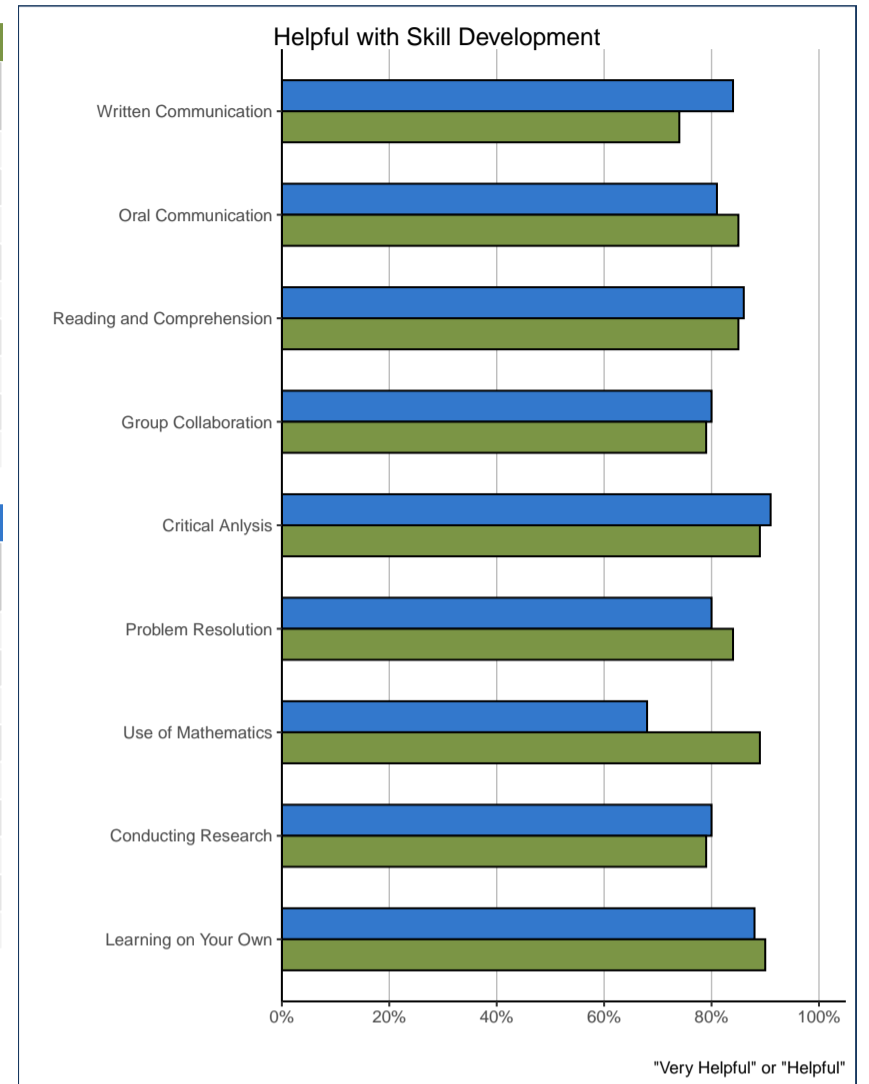
## FURTHER EDUCATION

| Took further education since 2021 graduation: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Yes | 6 | 33% | 3,668 | 43% |
| Not currently enrolled | 2 | 11% | 1,580 | 19% |
| Currently enrolled full–time | 4 | 22% | 1,472 | 17% |
| Currently enrolled part–time | 0 | 0% | 565 | 7% |
| No | 12 | 67% | 4,870 | 57% |
| Total | 18 | 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
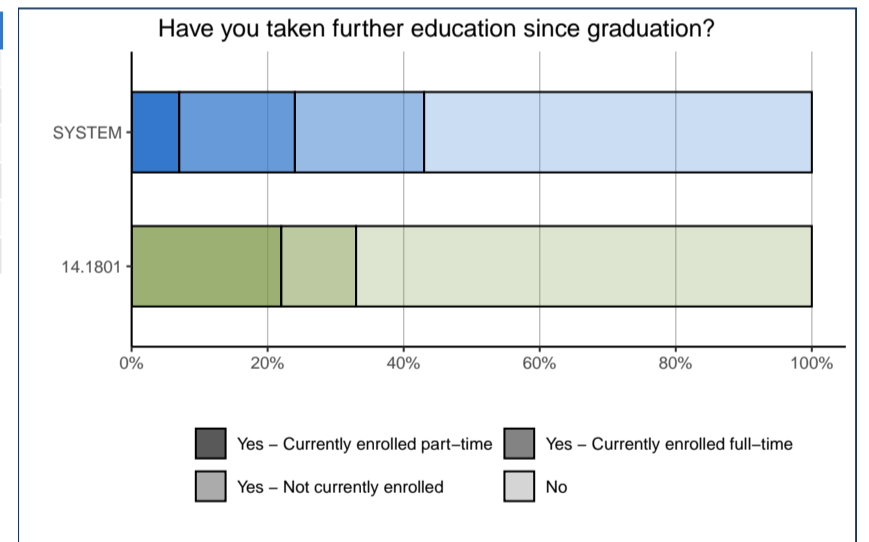
| Type of Formal Post–Secondary Education: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Masters Degree | 5 | 83% | 1,184 | 33% |
| Doctoral Degree | 1 | 17% | 153 | 4% |
| Another Undergraduate Degree | 0 | 0% | 718 | 20% |
| Certificate or Diploma below Bachelor level | 0 | 0% | 510 | 14% |
| Professional Association Certification | 0 | 0% | 538 | 15% |
| Postgraduate Certificate or Diploma | 0 | 0% | 359 | 10% |
| Other | 0 | 0% | 162 | 4% |
| Total | 6 | 100% | 3,624 | 100% |

Further Education/Training Type

**BC Student Outcomes**

Detailed Summary of Survey Results
All Institutions
14.1801: Materials engineering
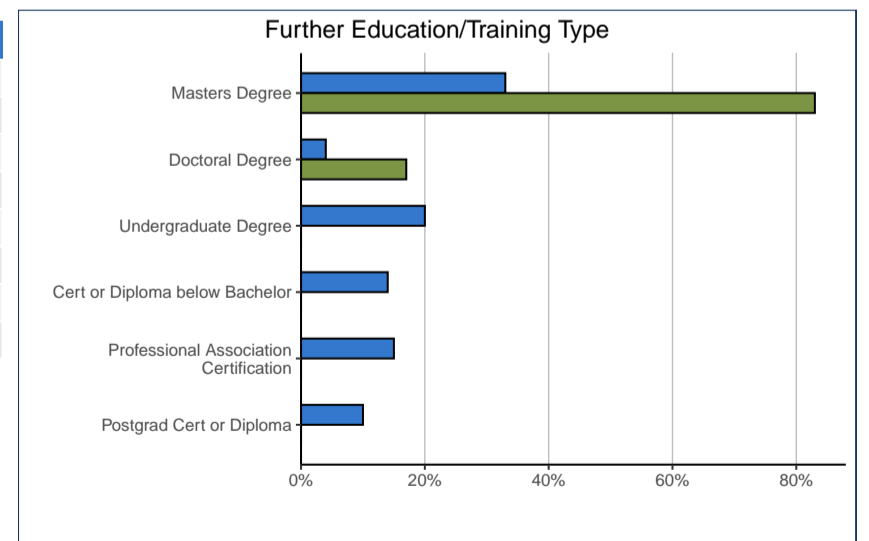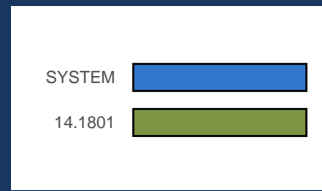
SYSTEM
14.1801

## EMPLOYMENT

| Labour Fource Status: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| In Labour Force (working or seeking work) | 17 | 89% | 7,643 | 90% |
| Not in Labour Force | 2 | 11% | 803 | 10% |
| Total | 19 | 100% | 8,446 | 100% |

| Employment: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Employment Rate* | 16 | 84% | 7,062 | 82% |
| Unemployment Rate** | 1 | 5.9% | 581 | 7.6% |

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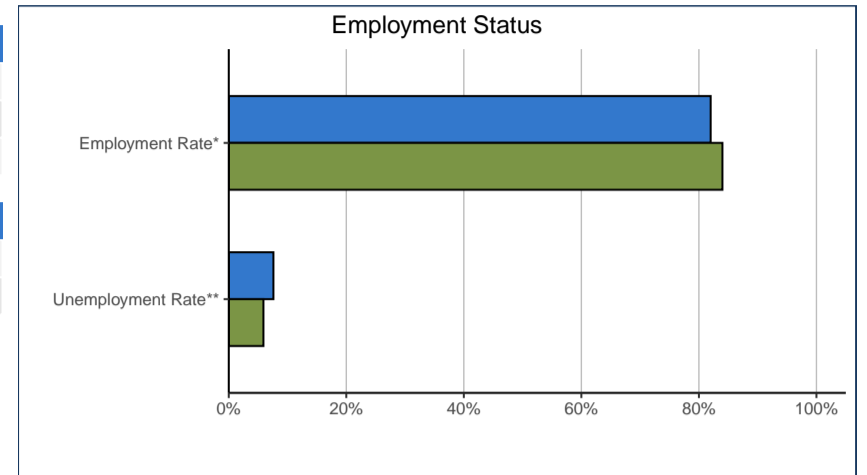
### Employment Status



| Status of Graduates NOT in Labour Force: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Attending School FT | 2 | 100% | 565 | 70% |
| Attending School PT | 0 | 0% | 20 | 2% |
| Other | 0 | 0% | 218 | 27% |
| Total NOT in Labour Force | 2 | 100% | 803 | 100% |

| Primary Employment Type: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Paid worker | 16 | 100% | 6,623 | 94% |
| Self–employed | 0 | 0% | 412 | 6% |
| Total | 16 | 100% | 7,035 | 100% |

| Job Characteristics: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| I hold more than one job* | 1 | 6% | 1,243 | 18% |
| My main job is full–time (>= 30 hours per week)** | 14 | 93% | 5,922 | 89% |
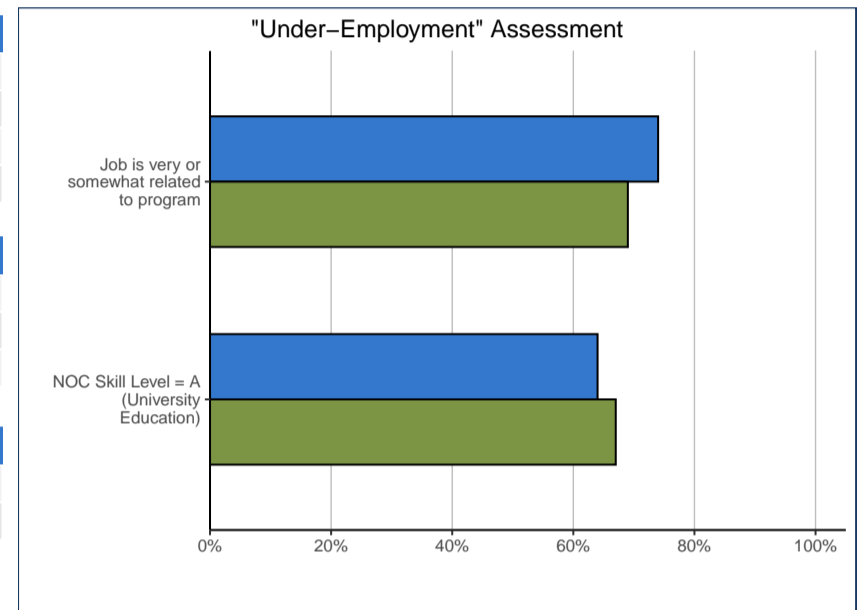
*Of total Employed
**Of those who provided data on hours/week worked

### "Under–Employment" Assessment



| How related is your main job to your program? | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Very Related | 3 | 19% | 3,081 | 44% |
| Somewhat Related | 8 | 50% | 2,151 | 31% |
| Not Very Related | 2 | 13% | 901 | 13% |
| Not at All Related | 3 | 19% | 910 | 13% |
| Total | 16 | 100% | 7,043 | 100% |

| "Under–employment" Assessment: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Job is very or somewhat related to program | 11 | 69% | 5,232 | 74% |
| NOC Skill Level = A (University Education)* | 8 | 67% | 4,148 | 64% |

*Of total valid responses

| Gross Annual Income from Main Job:* | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Less than $20,000 | 0 | 0% | 310 | 6% |
| $20,000 to $39,999 | 0 | 0% | 593 | 11% |
| $40,000 to $59,999 | ~ | ~ | 1,303 | 24% |
| $60,000 to $79,999 | 5 | 45% | 1,609 | 30% |
| $80,000 to $99,999 | ~ | ~ | 805 | 15% |
| $100,000 and Above | ~ | ~ | 729 | 14% |
| Total | 11 | 100% | 5,349 | 100% |
| Median Annual Income (full–time) ($) | 79,000 | | 68,000 | |
| Average Annual Income (full–time) ($) | 79,980 | | 74,015 | |

*Where data provided

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



| NOC Skill Type of Main Job: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Business, finance & administration | 0 | 0% | 1,558 | 24% |
| Natural & applied sciences & related | 9 | 75% | 1,354 | 21% |
| Health | 0 | 0% | 761 | 12% |
| Education, law and social, community & government | 1 | 8% | 1,787 | 27% |
| Art, culture, recreation & sport | 0 | 0% | 296 | 5% |
| Sales & service | 0 | 0% | 559 | 9% |
| Trades, transport & equipment operators & related | 0 | 0% | 114 | 2% |
| Natural resources, agriculture & related production | 0 | 0% | 35 | 1% |
| Manufacturing & utilities | 2 | 17% | 35 | 1% |
| Total | 12 | 100% | 6,499 | 100% |

### Employed Graduates by NOC Skill Type

**BC Student Outcomes**

Detailed Summary of Survey Results
All Institutions
14.1801: Materials engineering
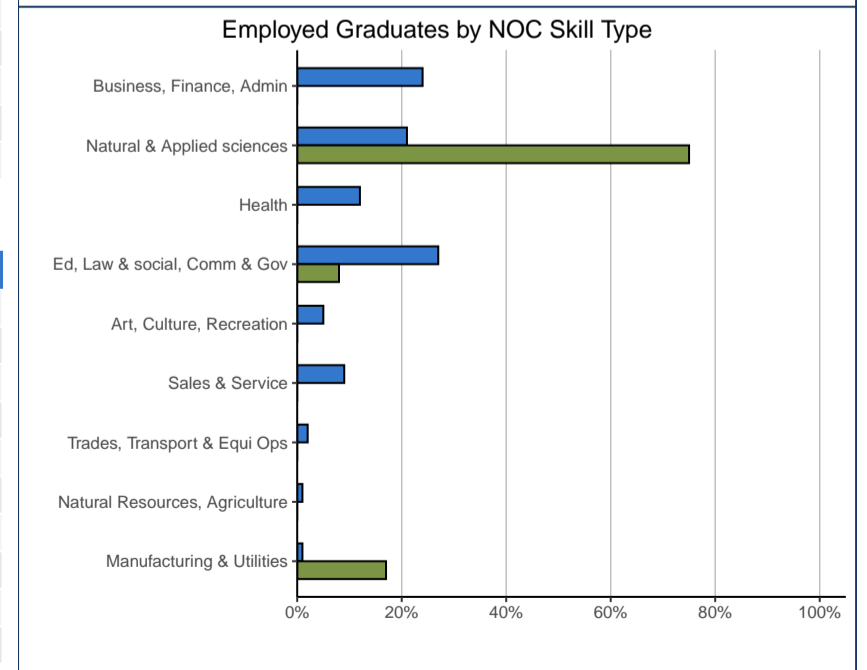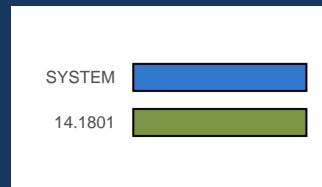
SYSTEM
14.1801

## EMPLOYMENT, continued

| NOC Skill Level of Main Job: | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| A. University education | 8 | 67% | 4,148 | 64% |
| B. College education/trade apprenticeship | 3 | 25% | 1,713 | 26% |
| C. Secondary school + job–specific training | 1 | 8% | 564 | 9% |
| D. No formal education | 0 | 0% | 90 | 1% |
| Total | 12 | 100% | 6,515 | 100% |
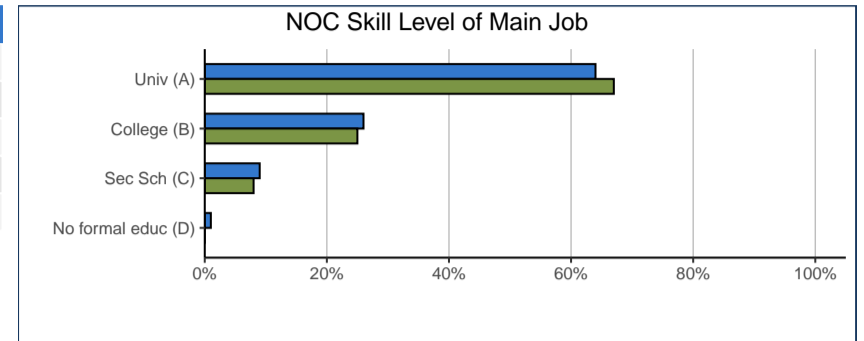
### NOC Skill Level of Main Job



| | 14.1801 | | | | |
|---|---|---|---|---|---|
| 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 | 56% | 31% | 13% | 0% | 16 |
| Oral Communication | 63% | 25% | 13% | 0% | 16 |
| Reading and Comprehension | 50% | 38% | 13% | 0% | 16 |
| Group Collaboration | 67% | 27% | 7% | 0% | 15 |
| Critical Anlysis | 56% | 31% | 6% | 6% | 16 |
| Problem Resolution | 63% | 25% | 6% | 6% | 16 |
| Use of Mathematics | 19% | 38% | 38% | 6% | 16 |
| Conducting Research | 31% | 31% | 25% | 13% | 16 |
| Learning on Your Own | 50% | 31% | 19% | 0% | 16 |

| | SYSTEM | | | | |
|---|---|---|---|---|---|
| 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 | 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 |
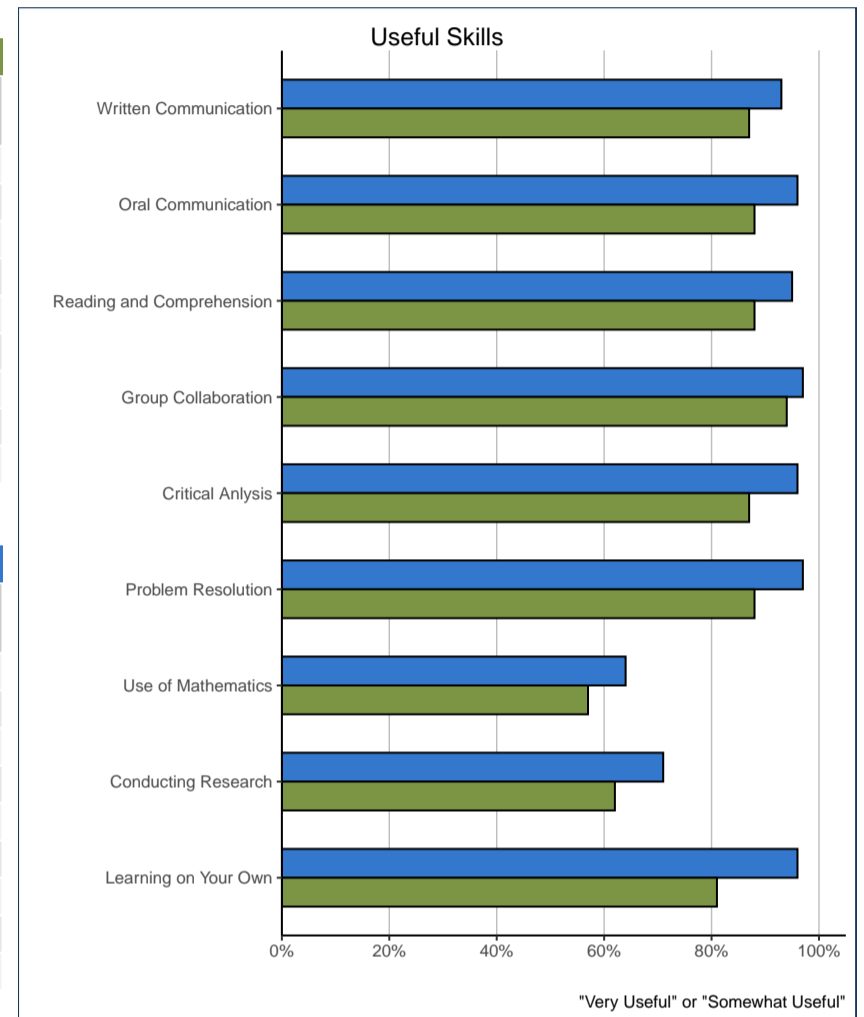
### Useful Skills



"Very Useful" or "Somewhat Useful"

| Top 10 Full–time Occupations of 14.1801 Graduates: | | | 14.1801 |
|---|---|---|---|
| NOC | NOC Skill Level | Description | % Employed FT in this Occ.** |
| * | | | |
| * | | | |
| * | | | |
| * | | | |
| * | | | |
| * | | | |
| * | | | |
| * | | | |
| * | | | |
| * | | | |

* 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
14.1801: Materials engineering

SYSTEM
14.1801

## EDUCATION FINANCING

| Funding Sources (3 sources allowed):* | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Personal savings, investments | 4 | 22% | 2,643 | 31% |
| Employment while studying | 7 | 39% | 4,042 | 48% |
| Family/Friends | 10 | 56% | 5,041 | 60% |
| Personal bank loans | 1 | 6% | 535 | 6% |
| Government student loans | 5 | 28% | 2,834 | 34% |
| Scholarships/Bursaries/Grants | 13 | 72% | 2,631 | 31% |
| Other | 7 | 39% | 1,990 | 24% |
| Total | 18 | | 8,391 | |

* Percentage of respondents who identified this source

| Financial Debt Incurred to Finance Bac. Ed.:* | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| Incurred any form of financial debt | 5 | 28% | 3,736 | 44% |
| Incurred government–sponsored student loan debt | 5 | 26% | 3,105 | 37% |

* Percentage of respondents who provided data

**Education Funding Sources** (bar chart: Personal savings, investments; Employment while studying; Family/Friends; Personal bank loans; Government student loans; Scholarships/Bursaries/Grants; axis 0% to 100%)

| Financial Debt Amount:* | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| < $1,000 | 0 | 0% | 4 | 0% |
| $1,000 to $4,999 | 0 | 0% | 85 | 3% |
| $5,000 to $9,999 | 0 | 0% | 219 | 8% |
| $10,000 to $14,999 | 0 | 0% | 298 | 10% |
| $15,000 to $19,999 | 0 | 0% | 233 | 8% |
| $20,000 to $29,999 | 0 | 0% | 545 | 19% |
| $30,000 to $39,999 | 2 | 50% | 455 | 16% |
| $40,000 or More | 2 | 50% | 1,064 | 37% |
| Total | 4 | 100% | 2,903 | 100% |
| Median Financial Debt ($) | 42,500 | | 30,000 | |

* Includes only cases where financial debt was incurred

**Financial Debt Incurred ($,000)** (bar chart: < $1, $1 – $4, $5 – $9, $10 – $14, $15 – $19, $20 – $29, $30 – $39, $40+; axis 0% to 50%)

| Gov't–Sponsored Student Loan Debt Amount:* | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| < $1,000 | 0 | 0% | 6 | 0% |
| $1,000 to $4,999 | 0 | 0% | 66 | 3% |
| $5,000 to $9,999 | 0 | 0% | 156 | 7% |
| $10,000 to $14,999 | 0 | 0% | 219 | 10% |
| $15,000 to $19,999 | 0 | 0% | 189 | 9% |
| $20,000 to $29,999 | 0 | 0% | 424 | 20% |
| $30,000 to $39,999 | 2 | 50% | 394 | 18% |
| $40,000 or More | 2 | 50% | 687 | 32% |
| Total | 4 | 100% | 2,141 | 100% |
| Median Gov't–Sponsored Loan Debt ($) | 42,500 | | 30,000 | |

* Includes only cases where government–sponsored debt was incurred

**Government–Sponsored Debt Incurred ($,000)** (bar chart: < $1, $1 – $4, $5 – $9, $10 – $14, $15 – $19, $20 – $29, $30 – $39, $40+; axis 0% to 50%)

| Gov't–Sponsored Loan Debt Outstanding:* | 14.1801 | | SYSTEM | |
|---|---|---|---|---|
| None – Loan repaid in full | 0 | 0% | 524 | 22% |
| < $1,000 | 0 | 0% | 9 | 0% |
| $1,000 to $4,999 | 0 | 0% | 103 | 4% |
| $5,000 to $9,999 | 0 | 0% | 189 | 8% |
| $10,000 to $14,999 | 0 | 0% | 213 | 9% |
| $15,000 to $19,999 | 0 | 0% | 208 | 9% |
| $20,000 to $29,999 | 2 | 50% | 447 | 18% |
| $30,000 to $39,999 | 0 | 0% | 330 | 14% |
| $40,000 or More | 2 | 50% | 406 | 17% |
| Total | 4 | 100% | 2,429 | 100% |
| Median Gov't–Sponsored Loan Debt Outstanding** ($) | 34,003 | | 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)** (bar chart: None, < $1, $1 – $4, $5 – $9, $10 – $14, $15 – $19, $20 – $29, $30 – $39, $40+; axis 0% to 50%)