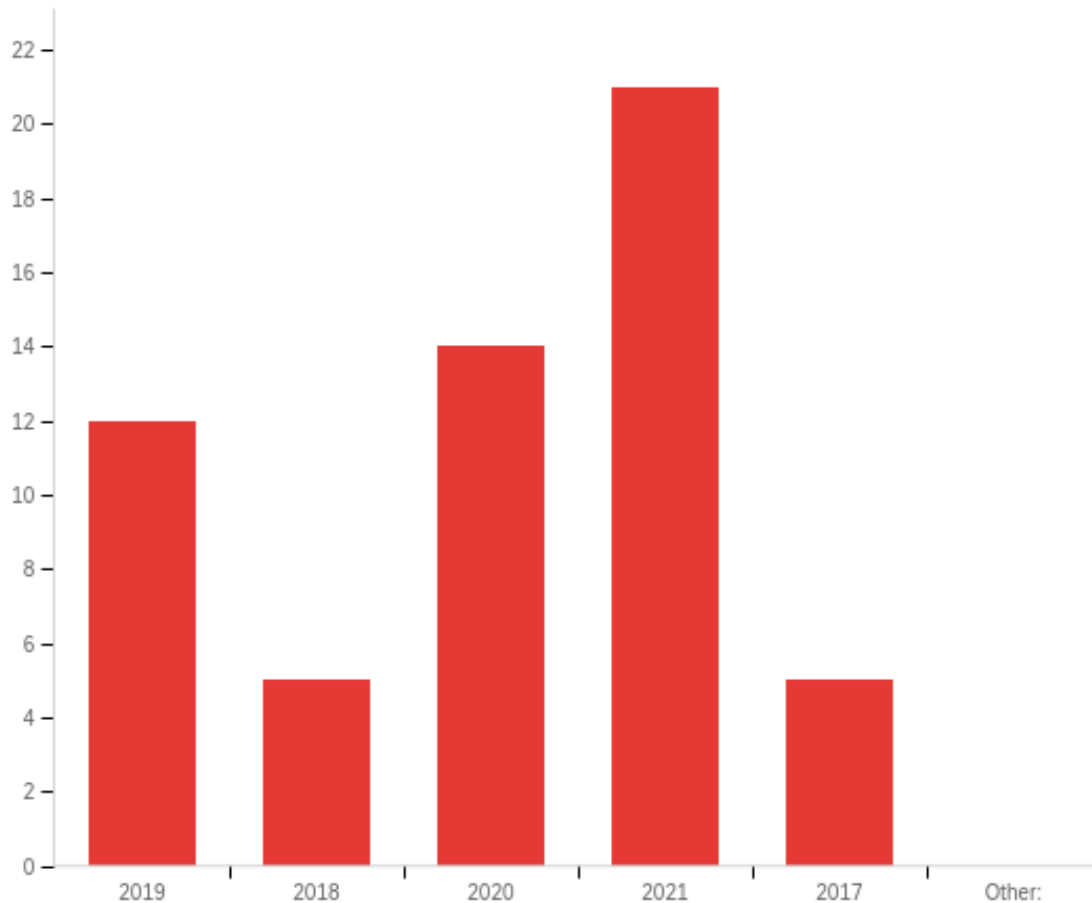


2021 Alumni Survey

Alumni Survey - Bachelor of Computing degree programs

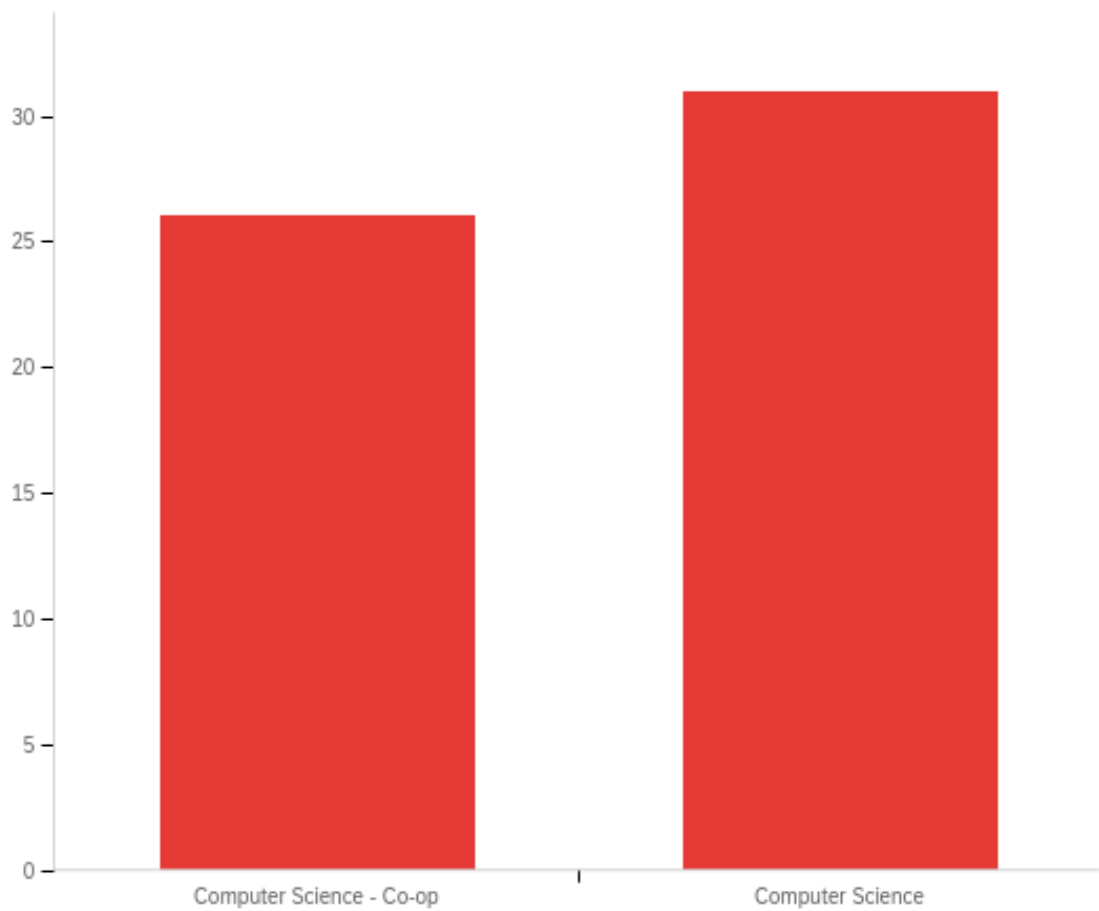
August 12th 2021, 11:15 am MDT

Q3 - What year did you graduate from your BComp degree program at the University?



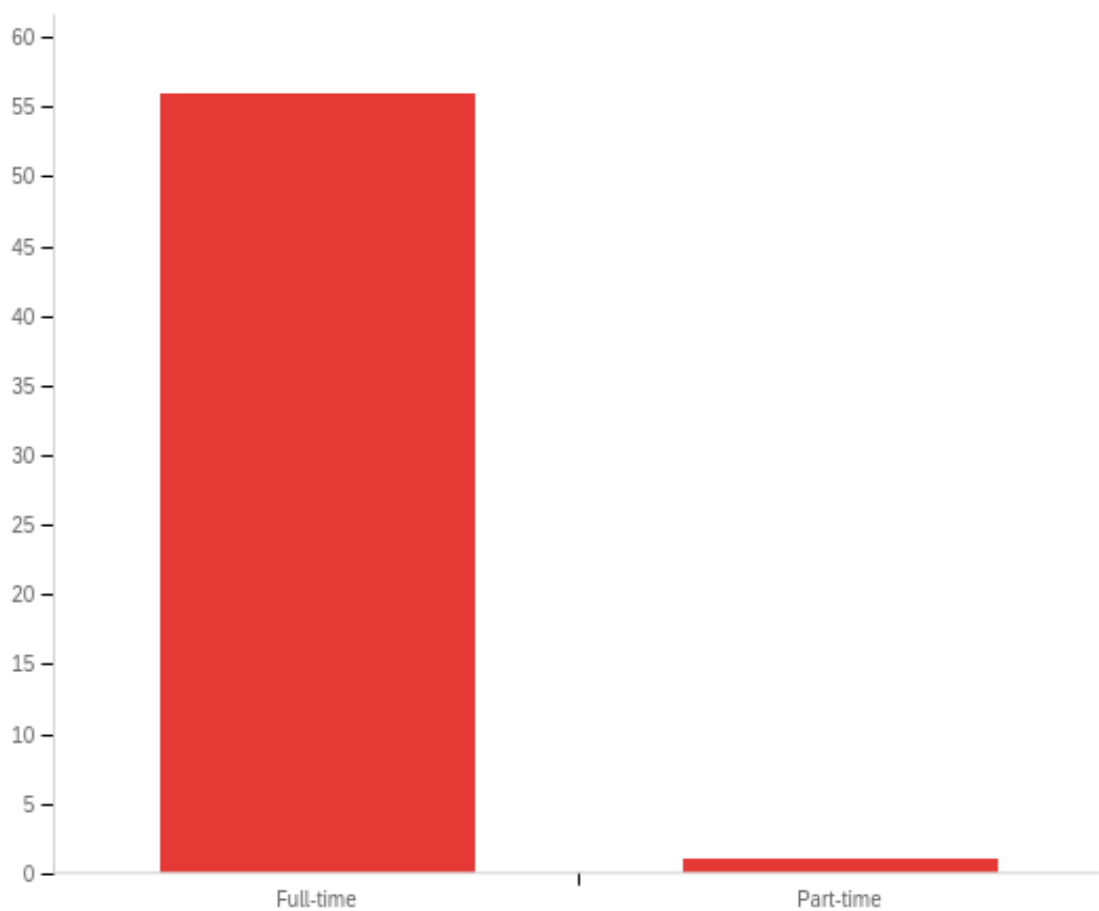
| # | Answer | % | Count |
|----|--------|--------|-------|
| 24 | 2019 | 21.05% | 12 |
| 25 | 2018 | 8.77% | 5 |
| 58 | 2020 | 24.56% | 14 |
| 59 | 2021 | 36.84% | 21 |
| 60 | 2017 | 8.77% | 5 |
| 61 | Other: | 0.00% | 0 |
| | Total | 100% | 57 |

Q22 - From which BComp degree program at the University did you graduate?

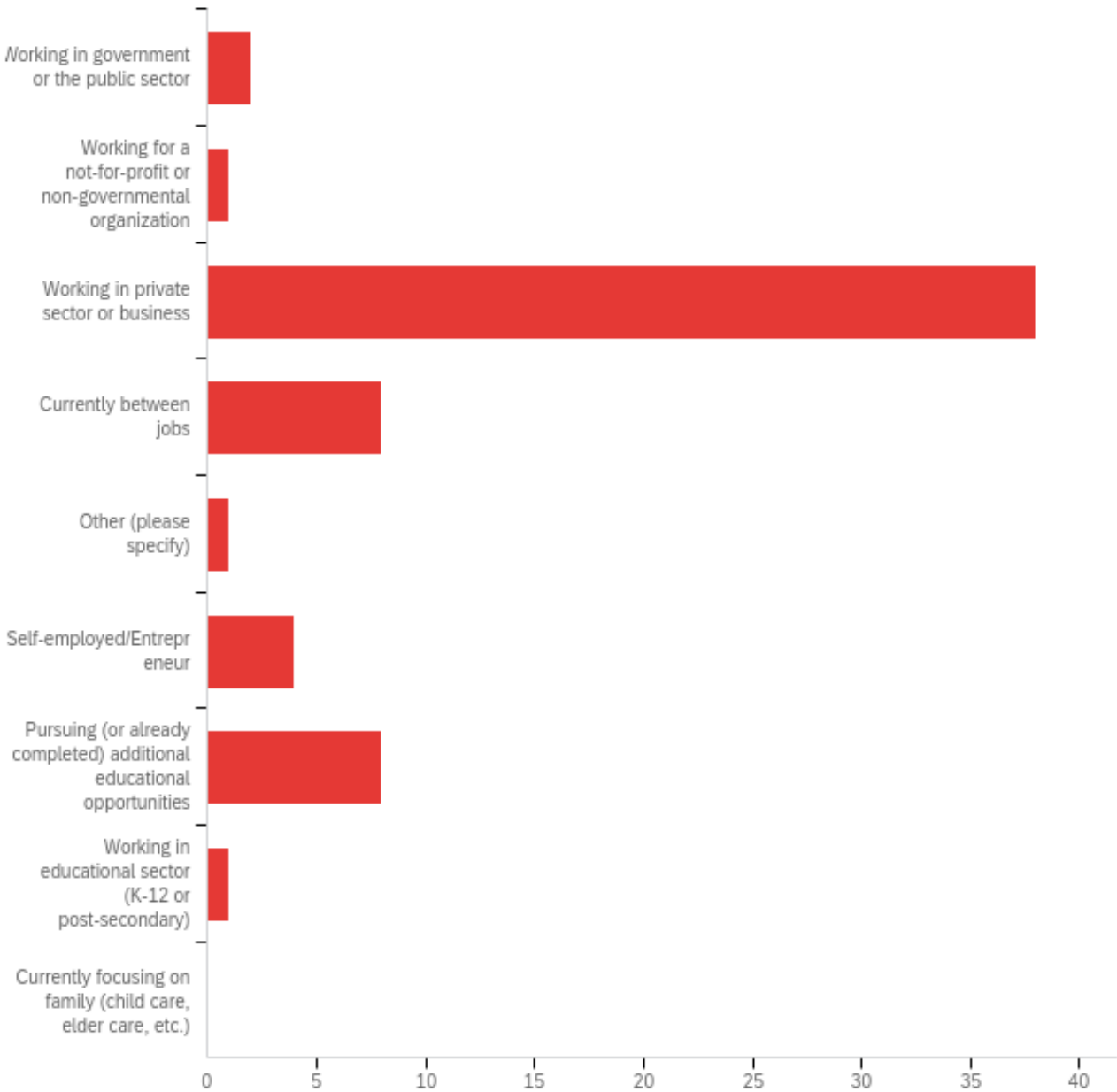


| # | Answer | % | Count |
|----|--------------------------|--------|-------|
| 59 | Computer Science - Co-op | 45.61% | 26 |
| 58 | Computer Science | 54.39% | 31 |
| | Total | 100% | 57 |

Q4 - Were you primarily a full-time or part-time student? Full-time: 2.0 credits or more per semester Part-time: 1.5 credits per semester



Q5 - Which of the following describes your current academic or professional career status? (multiple options can be selected)



| # | Answer | % | Count |
|---|---|--------|-------|
| 1 | Working in government or the public sector | 3.17% | 2 |
| 3 | Working for a not-for-profit or non-governmental organization | 1.59% | 1 |
| 4 | Working in private sector or business | 60.32% | 38 |
| 6 | Currently between jobs | 12.70% | 8 |

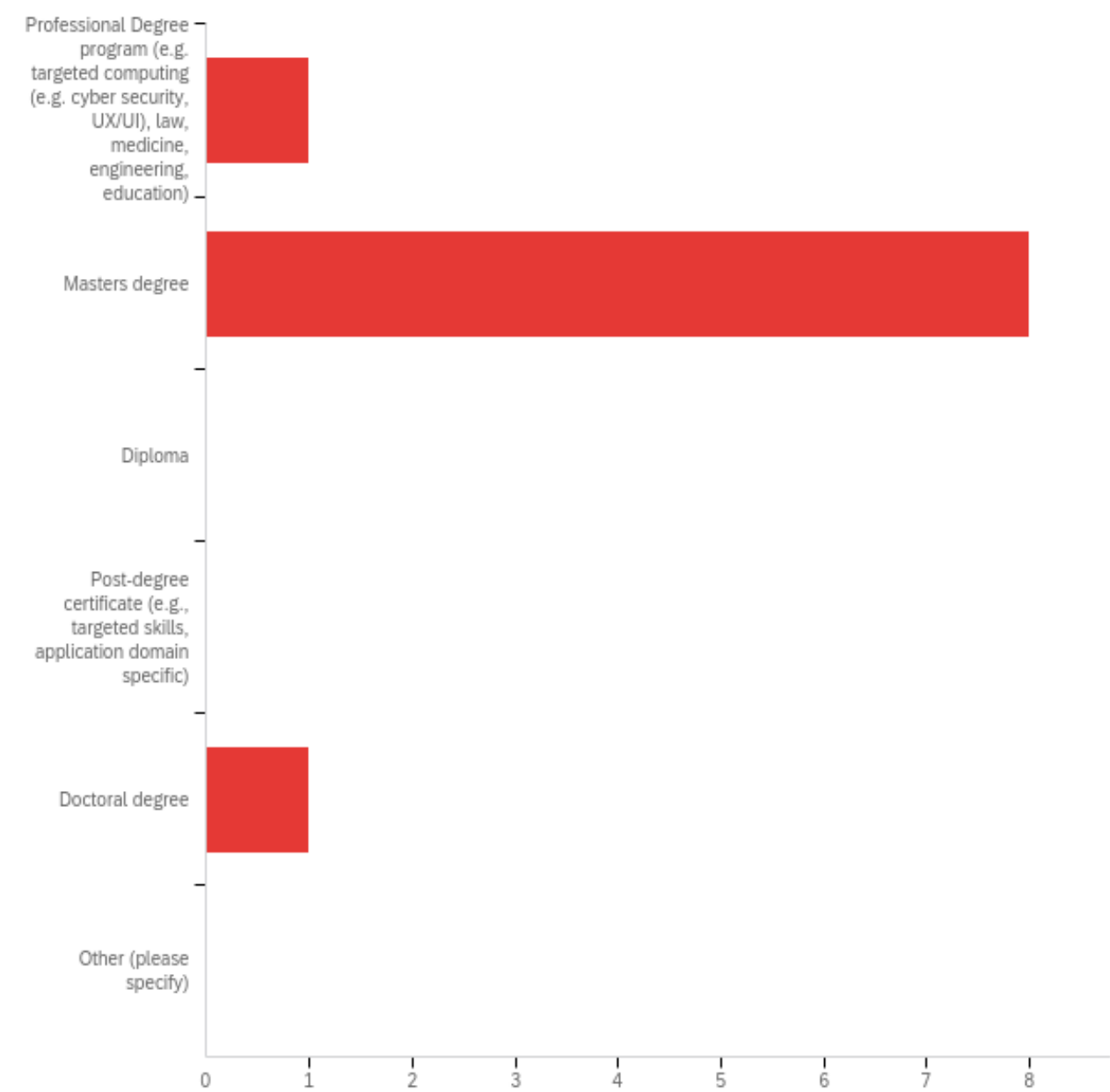
| | | | |
|----|--|--------|----|
| 7 | Other (please specify) | 1.59% | 1 |
| 8 | Self-employed/Entrepreneur | 6.35% | 4 |
| 9 | Pursuing (or already completed) additional educational opportunities | 12.70% | 8 |
| 13 | Working in educational sector (K-12 or post-secondary) | 1.59% | 1 |
| 14 | Currently focusing on family (child care, elder care, etc.) | 0.00% | 0 |
| | Total | 100% | 63 |

Q5_7_TEXT - Other (please specify)

Other (please specify) - Text

Working for University of Guelph

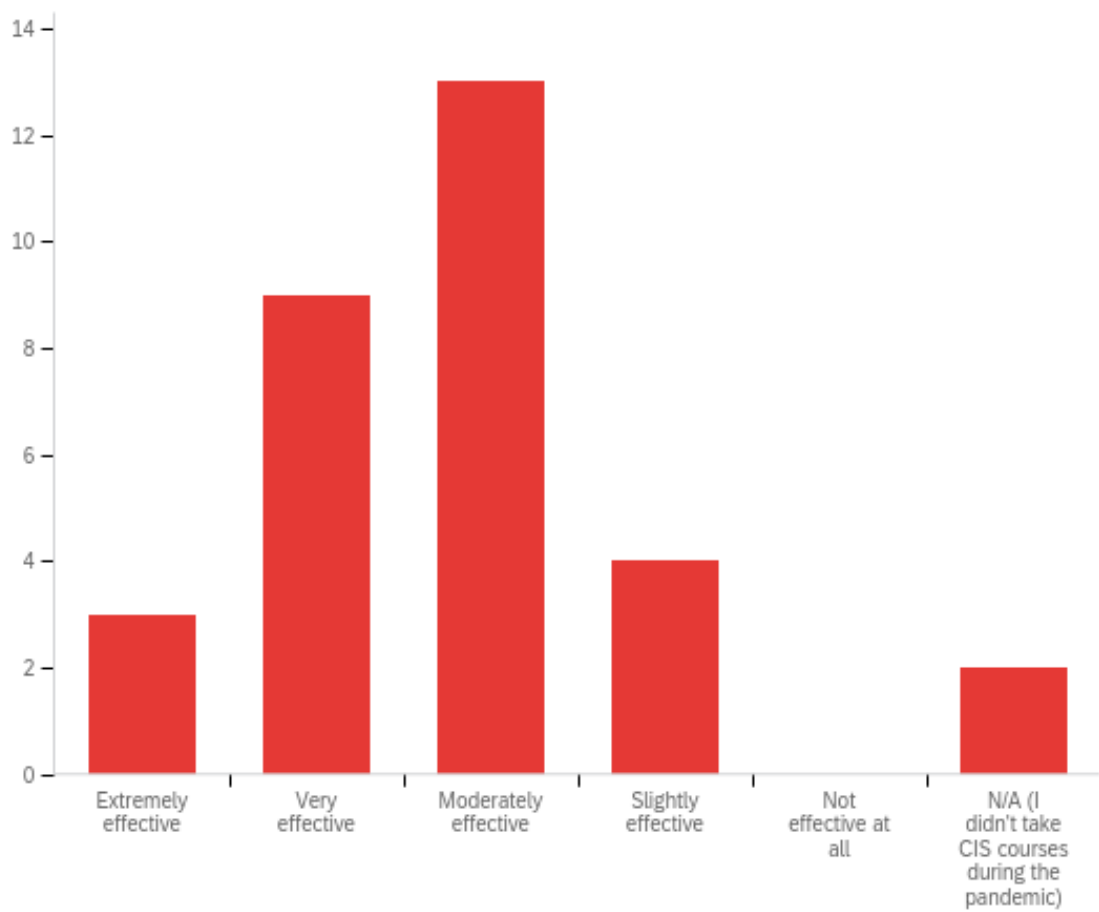
Q6 - Please indicate the type of program you are pursuing, or have already completed
(more than one option can be selected)



| # | Answer | % | Count |
|---|---|--------|-------|
| 1 | Professional Degree program (e.g. targeted computing (e.g. cyber security, UX/UI), law, medicine, engineering, education) | 10.00% | 1 |
| 2 | Masters degree | 80.00% | 8 |
| 3 | Diploma | 0.00% | 0 |
| 4 | Post-degree certificate (e.g., targeted skills, application domain specific) | 0.00% | 0 |

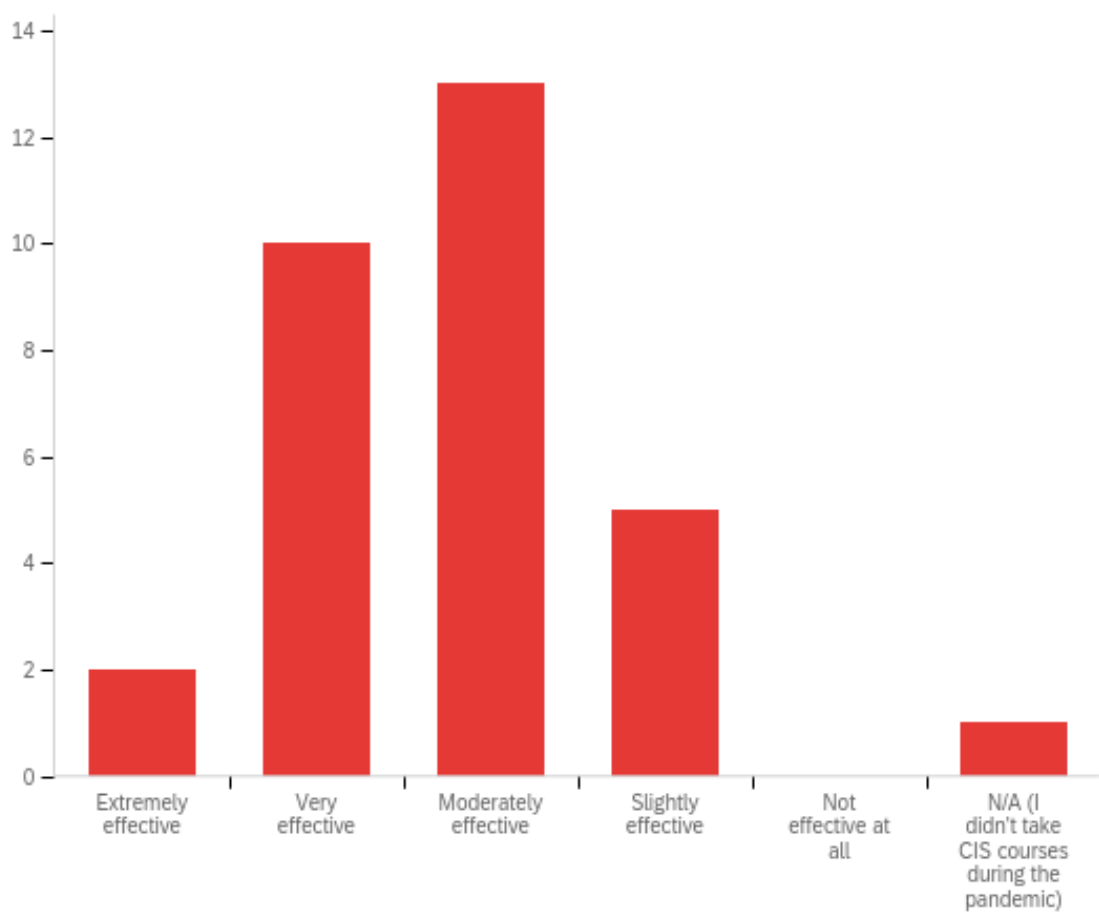
| | | | |
|----|------------------------|--------|----|
| 7 | Doctoral degree | 10.00% | 1 |
| 16 | Other (please specify) | 0.00% | 0 |
| | Total | 100% | 10 |

Q53 - Overall, how effective do you feel SoCS faculty and staff delivered your CIS courses online during COVID-impacted terms? (consider all courses)



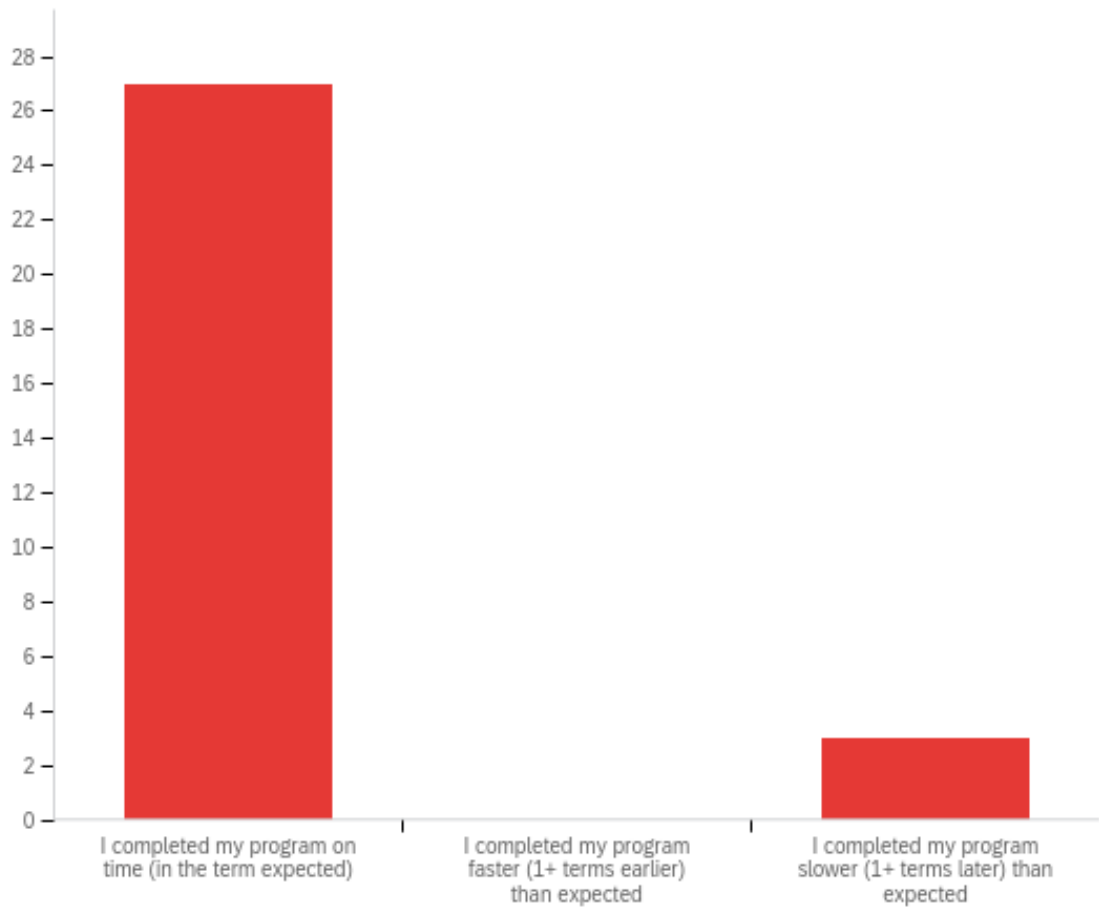
| # | Answer | % | Count |
|----|---|--------|-------|
| 50 | Extremely effective | 9.68% | 3 |
| 51 | Very effective | 29.03% | 9 |
| 52 | Moderately effective | 41.94% | 13 |
| 53 | Slightly effective | 12.90% | 4 |
| 54 | Not effective at all | 0.00% | 0 |
| 55 | N/A (I didn't take CIS courses during the pandemic) | 6.45% | 2 |
| | Total | 100% | 31 |

Q61 - What was your overall impression of learning CIS course content and skills in a remote learning format compared to pre-COVID in-person learning formats?



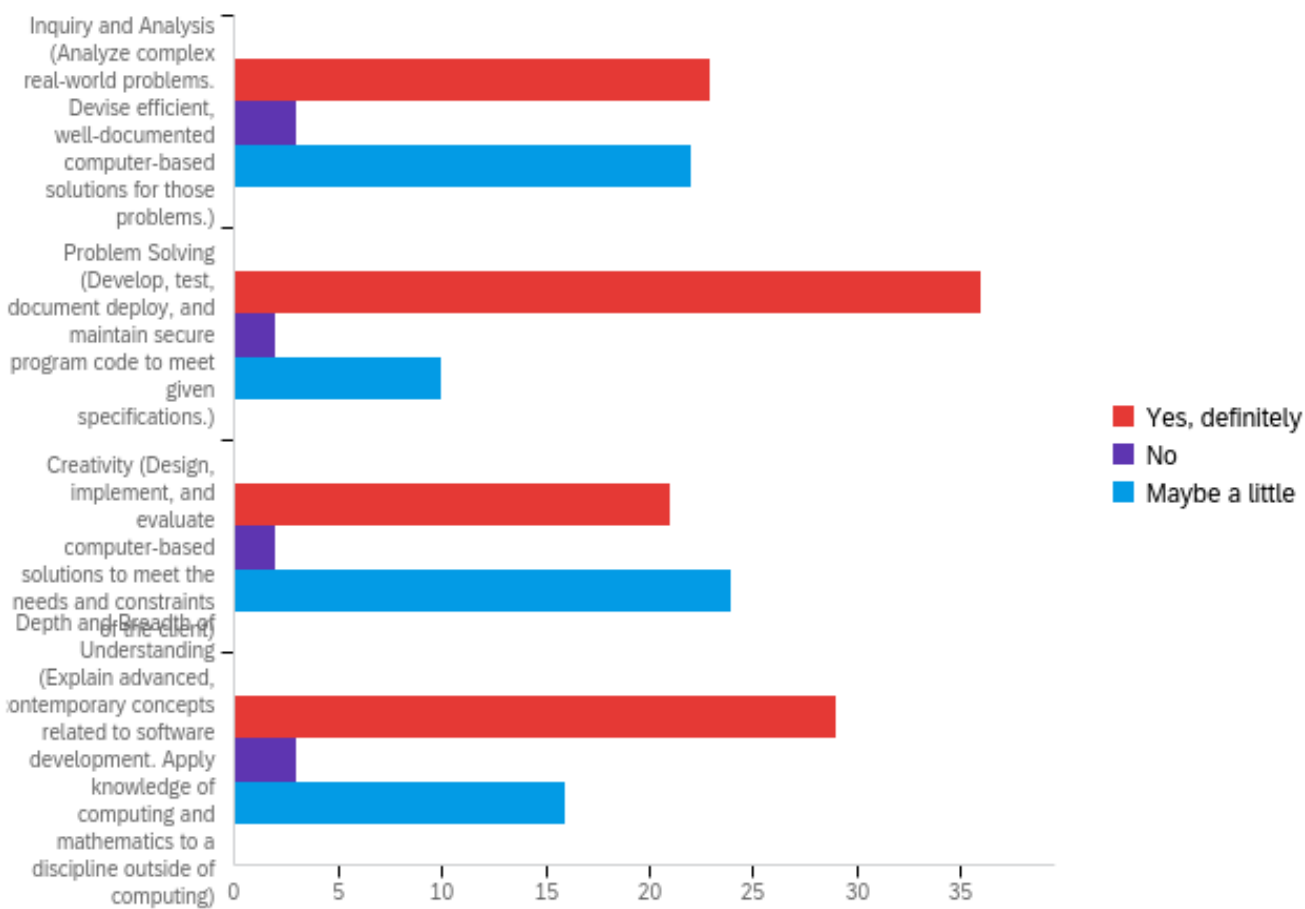
| # | Answer | % | Count |
|----|---|--------|-------|
| 9 | Extremely effective | 6.45% | 2 |
| 10 | Very effective | 32.26% | 10 |
| 11 | Moderately effective | 41.94% | 13 |
| 12 | Slightly effective | 16.13% | 5 |
| 13 | Not effective at all | 0.00% | 0 |
| 14 | N/A (I didn't take CIS courses during the pandemic) | 3.23% | 1 |
| | Total | 100% | 31 |

Q54 - What, if any, impact do you feel the pivot to remote learning had on your expected program completion time?



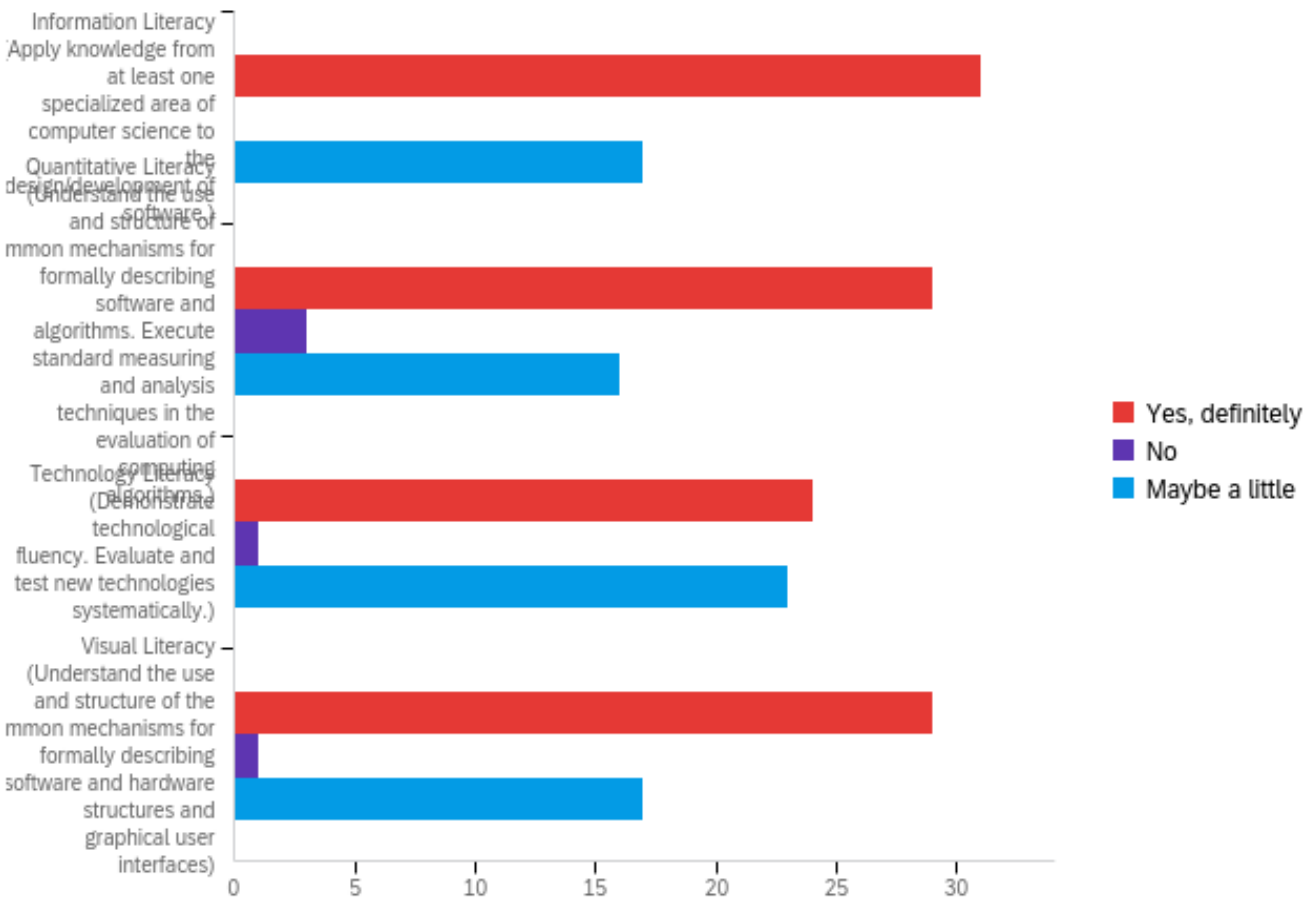
| # | Answer | % | Count |
|---|--|--------|-------|
| 1 | I completed my program on time (in the term expected) | 90.00% | 27 |
| 2 | I completed my program faster (1+ terms earlier) than expected | 0.00% | 0 |
| 3 | I completed my program slower (1+ terms later) than expected | 10.00% | 3 |
| | Total | 100% | 30 |

Q7 - Program Learning Outcomes: Critical and Creative Thinking Based on your program experiences, do you feel you developed the following critical and creative thinking knowledge, skills, or abilities during your BComp Computer Science program (co-op or regular stream)?



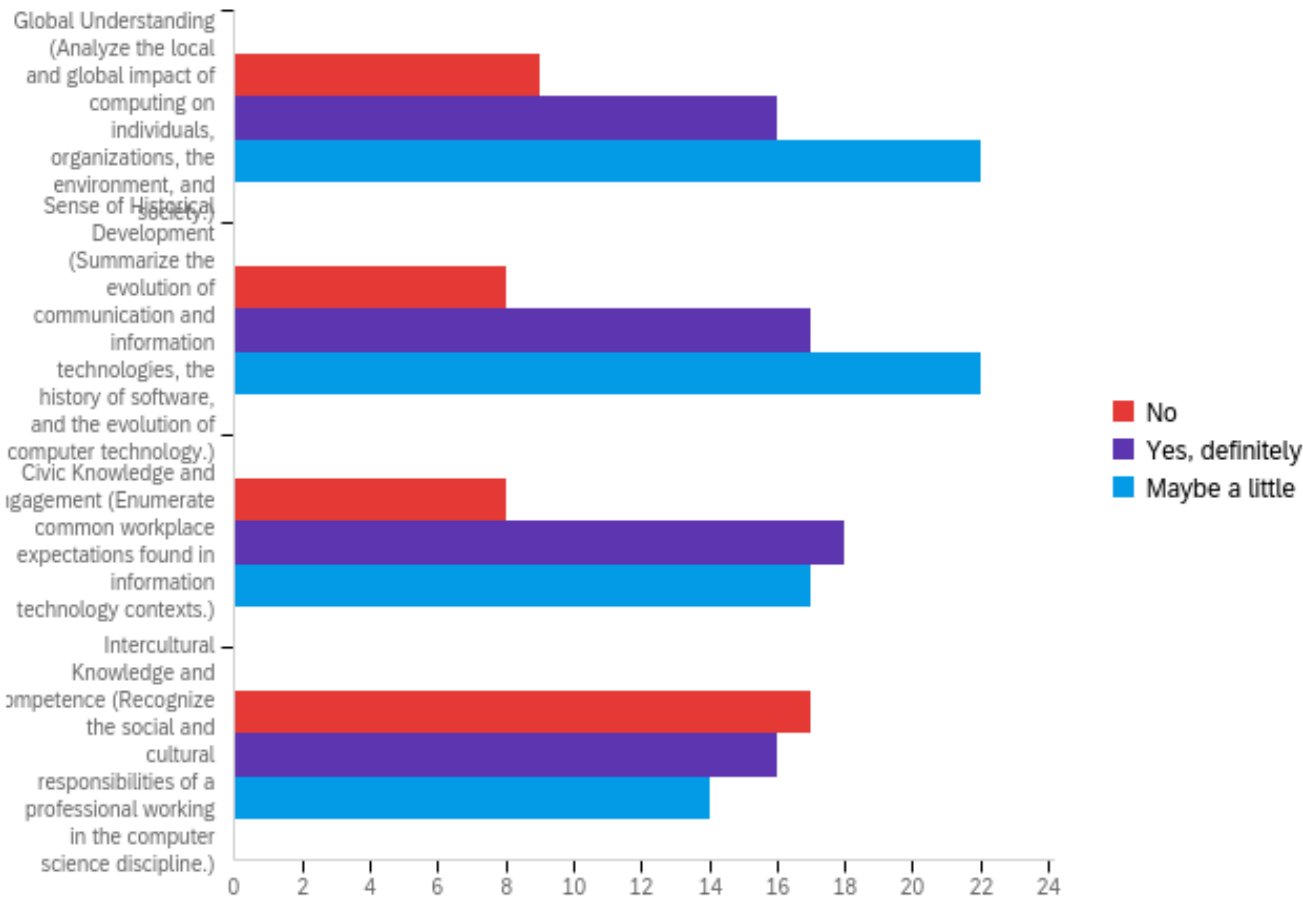
| # | Question | Yes, definitely | | No | | Maybe a little | | Total |
|---|---|-----------------|----|-------|---|----------------|----|-------|
| 1 | Inquiry and Analysis (Analyze complex real-world problems. Devise efficient, well-documented computer-based solutions for those problems.) | 47.92% | 23 | 6.25% | 3 | 45.83% | 22 | 48 |
| 2 | Problem Solving (Develop, test, document deploy, and maintain secure program code to meet given specifications.) | 75.00% | 36 | 4.17% | 2 | 20.83% | 10 | 48 |
| 3 | Creativity (Design, implement, and evaluate computer-based solutions to meet the needs and constraints of the client) | 44.68% | 21 | 4.26% | 2 | 51.06% | 24 | 47 |
| 4 | Depth and Breadth of Understanding (Explain advanced, contemporary concepts related to software development. Apply knowledge of computing and mathematics to a discipline outside of computing) | 60.42% | 29 | 6.25% | 3 | 33.33% | 16 | 48 |

Q36 - Program Learning Outcomes: Literacy Based on your program experiences, do you feel you developed the following literacy knowledge, skills, or abilities during your BComp Computer Science program (co-op or regular stream)?



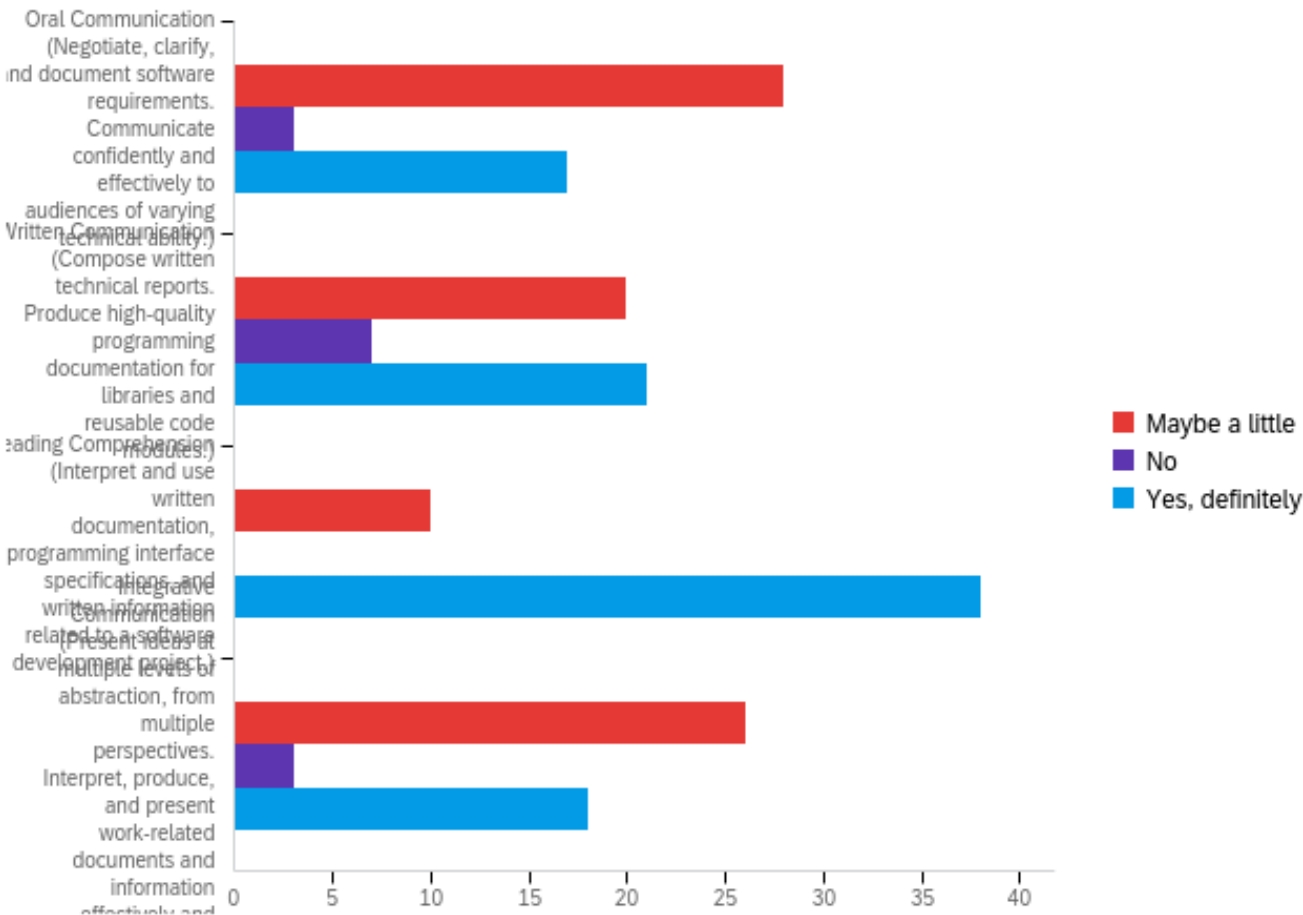
| # | Question | Yes, definitely | | No | | Maybe a little | | Total |
|---|--|-----------------|----|-------|---|----------------|----|-------|
| 1 | Information Literacy (Apply knowledge from at least one specialized area of computer science to the design/development of software.) | 64.58% | 31 | 0.00% | 0 | 35.42% | 17 | 48 |
| 2 | Quantitative Literacy (Understand the use and structure of common mechanisms for formally describing software and algorithms. Execute standard measuring and analysis techniques in the evaluation of computing algorithms.) | 60.42% | 29 | 6.25% | 3 | 33.33% | 16 | 48 |
| 3 | Technology Literacy (Demonstrate technological fluency. Evaluate and test new technologies systematically.) | 50.00% | 24 | 2.08% | 1 | 47.92% | 23 | 48 |
| 4 | Visual Literacy (Understand the use and structure of the common mechanisms for formally describing software and hardware structures and graphical user interfaces) | 61.70% | 29 | 2.13% | 1 | 36.17% | 17 | 47 |

Q37 - Program Learning Outcomes: Global Understanding Based on your program experiences, do you feel you developed the following global understanding knowledge, skills, or abilities during your BComp Computer Science program (co-op or regular stream)?



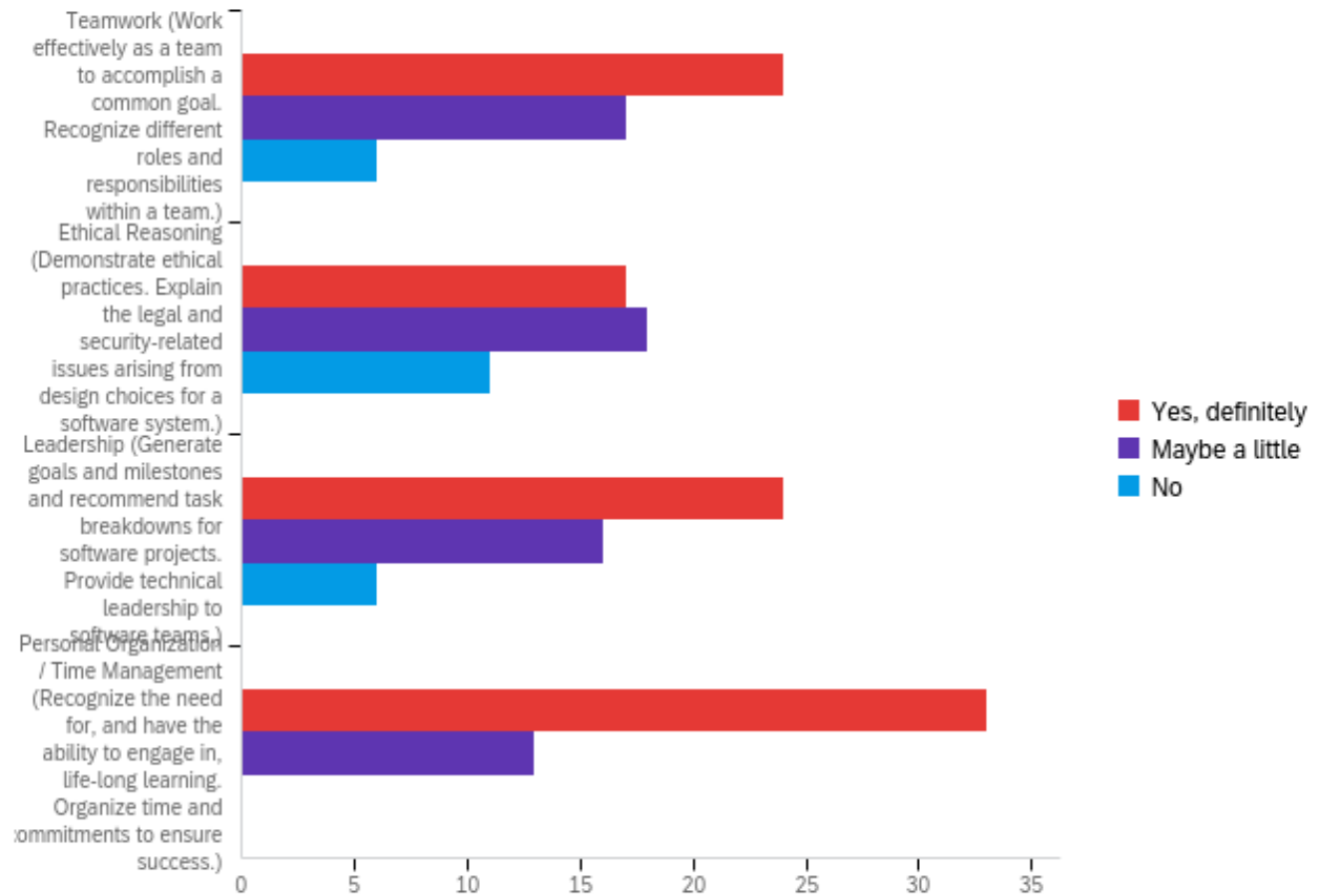
| # | Question | No | | Yes, definitely | | Maybe a little | | Total |
|---|---|--------|----|--------------------|----|-------------------|----|-------|
| 1 | Global Understanding (Analyze the local and global impact of computing on individuals, organizations, the environment, and society.) | 19.15% | 9 | 34.04% | 16 | 46.81% | 22 | 47 |
| 2 | Sense of Historical Development (Summarize the evolution of communication and information technologies, the history of software, and the evolution of computer technology.) | 17.02% | 8 | 36.17% | 17 | 46.81% | 22 | 47 |
| 3 | Civic Knowledge and Engagement (Enumerate common workplace expectations found in information technology contexts.) | 18.60% | 8 | 41.86% | 18 | 39.53% | 17 | 43 |
| 4 | Intercultural Knowledge and Competence (Recognize the social and cultural responsibilities of a professional working in the computer science discipline.) | 36.17% | 17 | 34.04% | 16 | 29.79% | 14 | 47 |

Q38 - Program Learning Outcomes: Communication Based on your program experiences, do you feel you developed the following communication knowledge, skills, or abilities during your BComp Computer Science program (co-op or regular stream)?



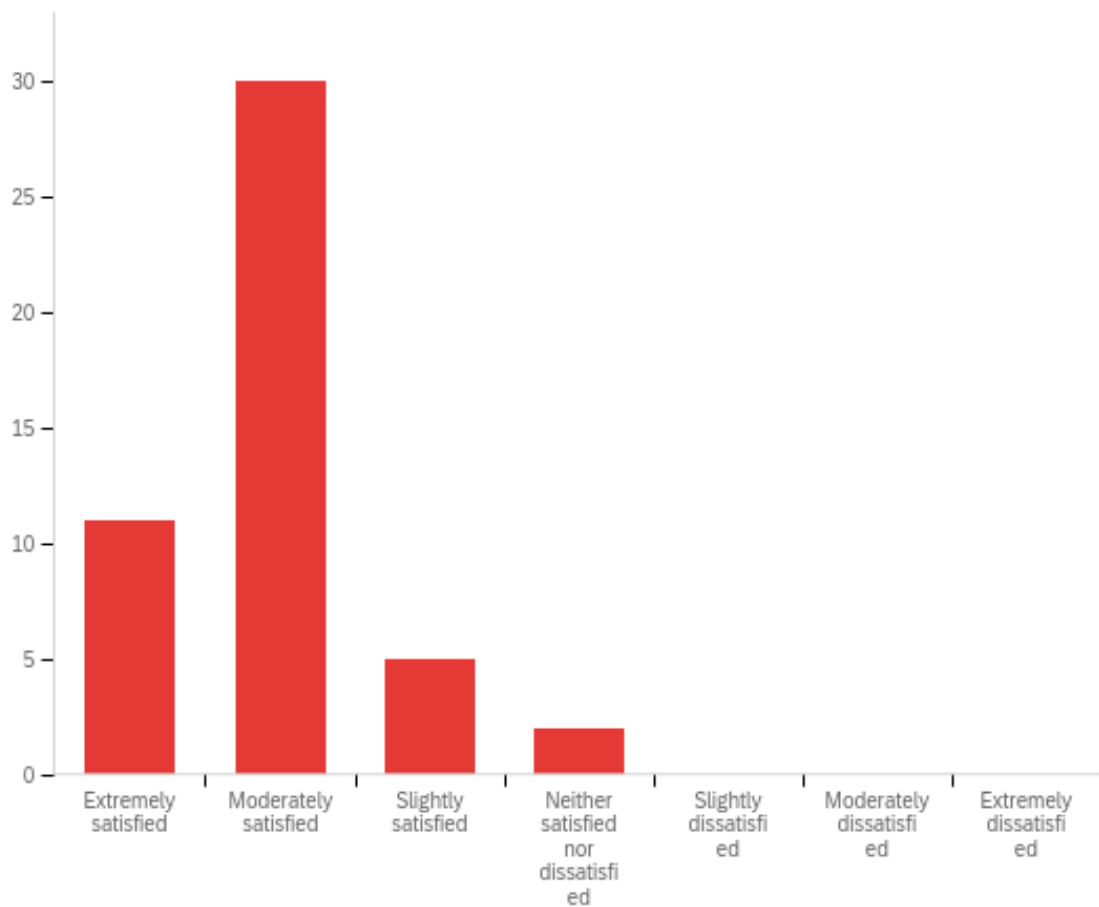
| # | Question | Maybe a little | | No | | Yes, definitely | | Total |
|---|---|----------------|----|--------|---|-----------------|----|-------|
| 1 | Oral Communication (Negotiate, clarify, and document software requirements. Communicate confidently and effectively to audiences of varying technical ability.) | 58.33% | 28 | 6.25% | 3 | 35.42% | 17 | 48 |
| 2 | Written Communication (Compose written technical reports. Produce high-quality programming documentation for libraries and reusable code modules.) | 41.67% | 20 | 14.58% | 7 | 43.75% | 21 | 48 |
| 3 | Reading Comprehension (Interpret and use written documentation, programming interface specifications, and written information related to a software development project.) | 20.83% | 10 | 0.00% | 0 | 79.17% | 38 | 48 |
| 4 | Integrative Communication (Present ideas at multiple levels of abstraction, from multiple perspectives. Interpret, produce, and present work-related documents and information effectively and accurately.) | 55.32% | 26 | 6.38% | 3 | 38.30% | 18 | 47 |

Q44 - Program Learning Outcomes: Professional and Ethical Behaviour Based on your program experiences, do you feel you developed the following professional and ethical behaviour knowledge, skills, or abilities during your BComp Computer Science program (co-op or regular stream)?



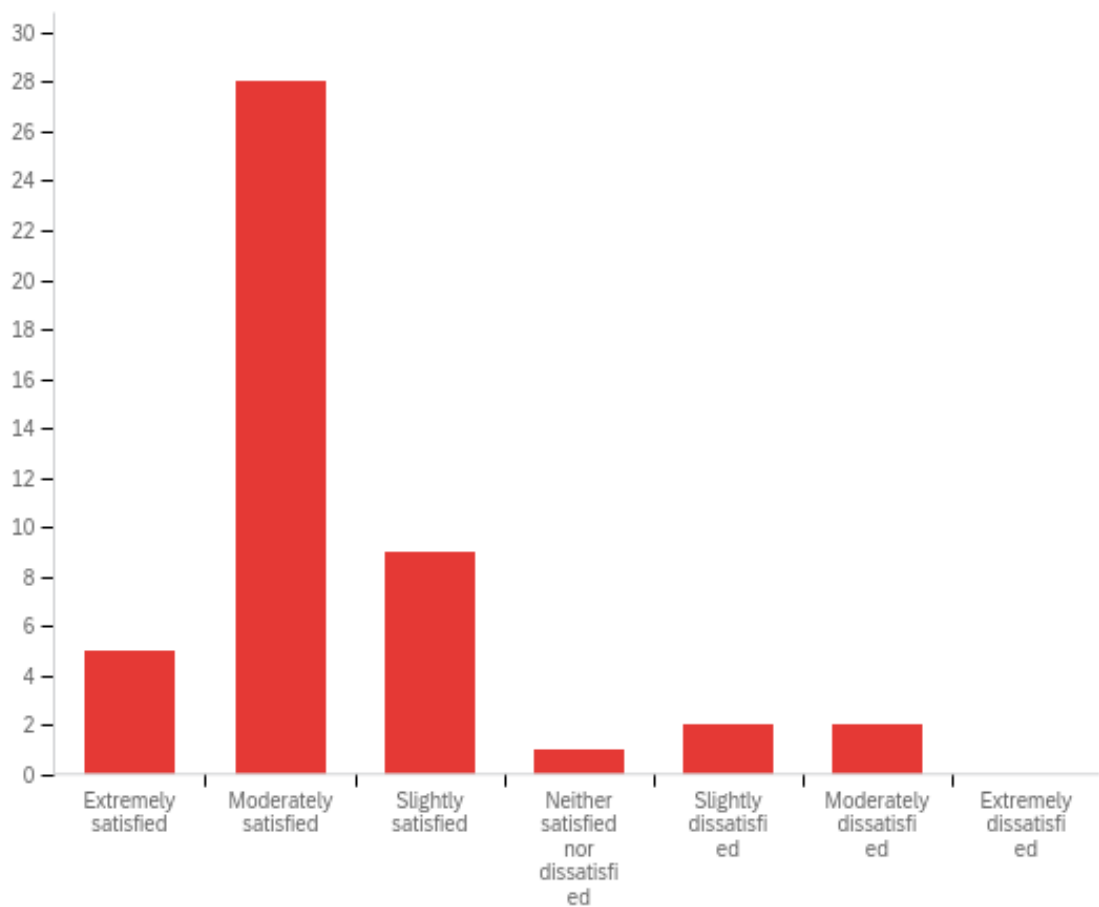
| # | Question | Yes, definitely | | Maybe a little | | No | | Total |
|---|---|-----------------|----|----------------|----|--------|----|-------|
| 1 | Teamwork (Work effectively as a team to accomplish a common goal. Recognize different roles and responsibilities within a team.) | 51.06% | 24 | 36.17% | 17 | 12.77% | 6 | 47 |
| 2 | Ethical Reasoning (Demonstrate ethical practices. Explain the legal and security-related issues arising from design choices for a software system.) | 36.96% | 17 | 39.13% | 18 | 23.91% | 11 | 46 |
| 3 | Leadership (Generate goals and milestones and recommend task breakdowns for software projects. Provide technical leadership to software teams.) | 52.17% | 24 | 34.78% | 16 | 13.04% | 6 | 46 |
| 4 | Personal Organization / Time Management (Recognize the need for, and have the ability to engage in, life-long learning. Organize time and commitments to ensure success.) | 71.74% | 33 | 28.26% | 13 | 0.00% | 0 | 46 |

Q8 - What best describes your overall experience in your BComp degree program during your undergraduate studies at the University of Guelph?



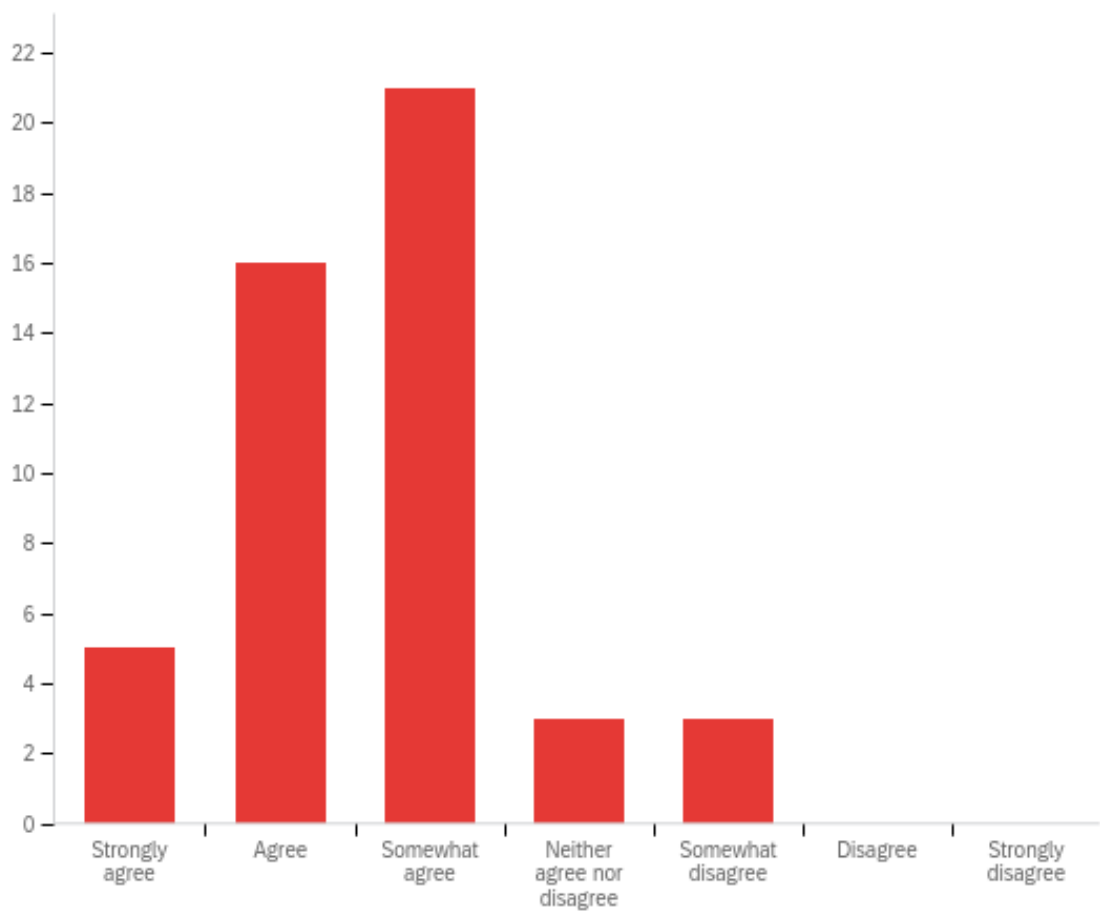
| # | Answer | % | Count |
|----|------------------------------------|--------|-------|
| 46 | Extremely satisfied | 22.92% | 11 |
| 47 | Moderately satisfied | 62.50% | 30 |
| 48 | Slightly satisfied | 10.42% | 5 |
| 49 | Neither satisfied nor dissatisfied | 4.17% | 2 |
| 50 | Slightly dissatisfied | 0.00% | 0 |
| 51 | Moderately dissatisfied | 0.00% | 0 |
| 52 | Extremely dissatisfied | 0.00% | 0 |
| | Total | 100% | 48 |

Q9 - What best describes your level of satisfaction with the overall quality of teaching in CIS courses during your undergraduate studies at the University of Guelph?



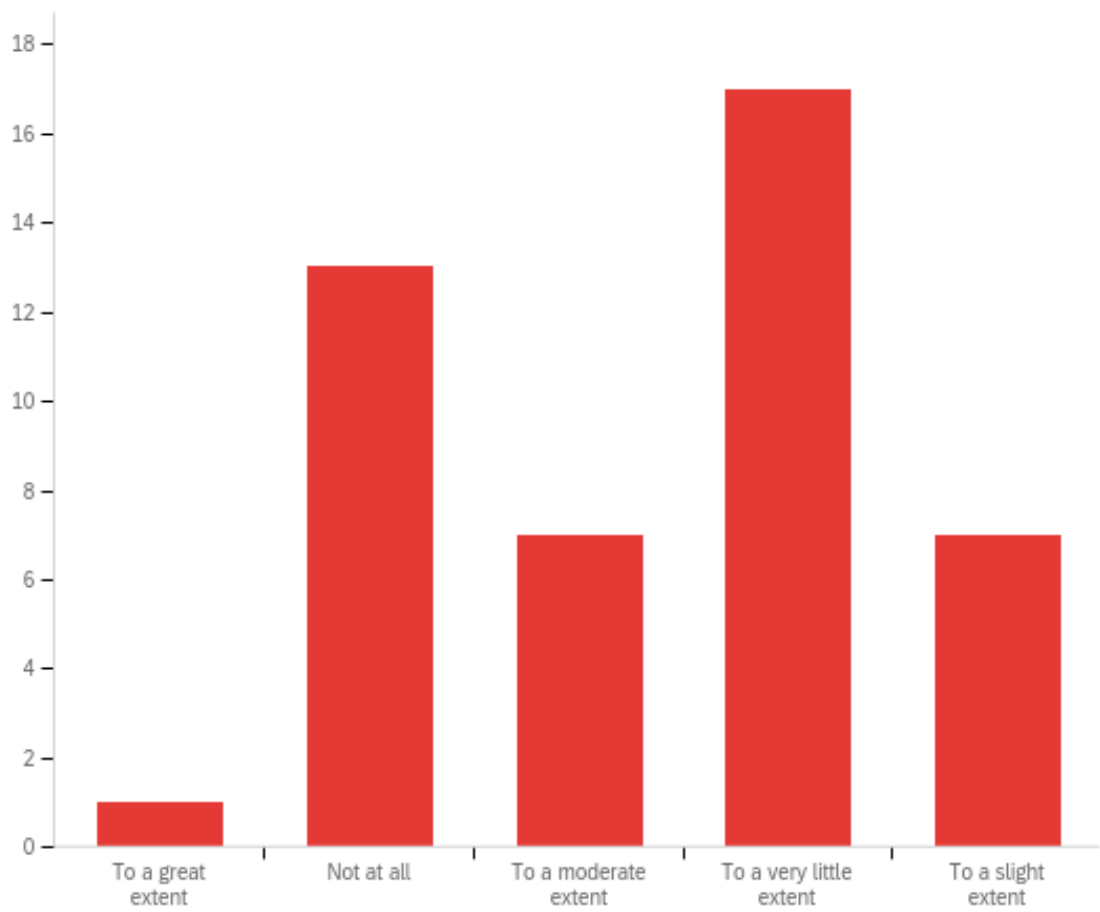
| # | Answer | % | Count |
|----|------------------------------------|--------|-------|
| 59 | Extremely satisfied | 10.64% | 5 |
| 60 | Moderately satisfied | 59.57% | 28 |
| 61 | Slightly satisfied | 19.15% | 9 |
| 62 | Neither satisfied nor dissatisfied | 2.13% | 1 |
| 63 | Slightly dissatisfied | 4.26% | 2 |
| 64 | Moderately dissatisfied | 4.26% | 2 |
| 65 | Extremely dissatisfied | 0.00% | 0 |
| | Total | 100% | 47 |

**Q13 - Please indicate the extent to which you agree or disagree with the statement:
"What I learned in my Bachelor of Computing degree program prepared me for my
professional or academic career post-graduation."**



| # | Answer | % | Count |
|----|----------------------------|--------|-------|
| 25 | Strongly agree | 10.42% | 5 |
| 26 | Agree | 33.33% | 16 |
| 27 | Somewhat agree | 43.75% | 21 |
| 28 | Neither agree nor disagree | 6.25% | 3 |
| 29 | Somewhat disagree | 6.25% | 3 |
| 30 | Disagree | 0.00% | 0 |
| 31 | Strongly disagree | 0.00% | 0 |
| | Total | 100% | 48 |

Q10 - To what extent did library resources and services support your progress through your BComp degree program?



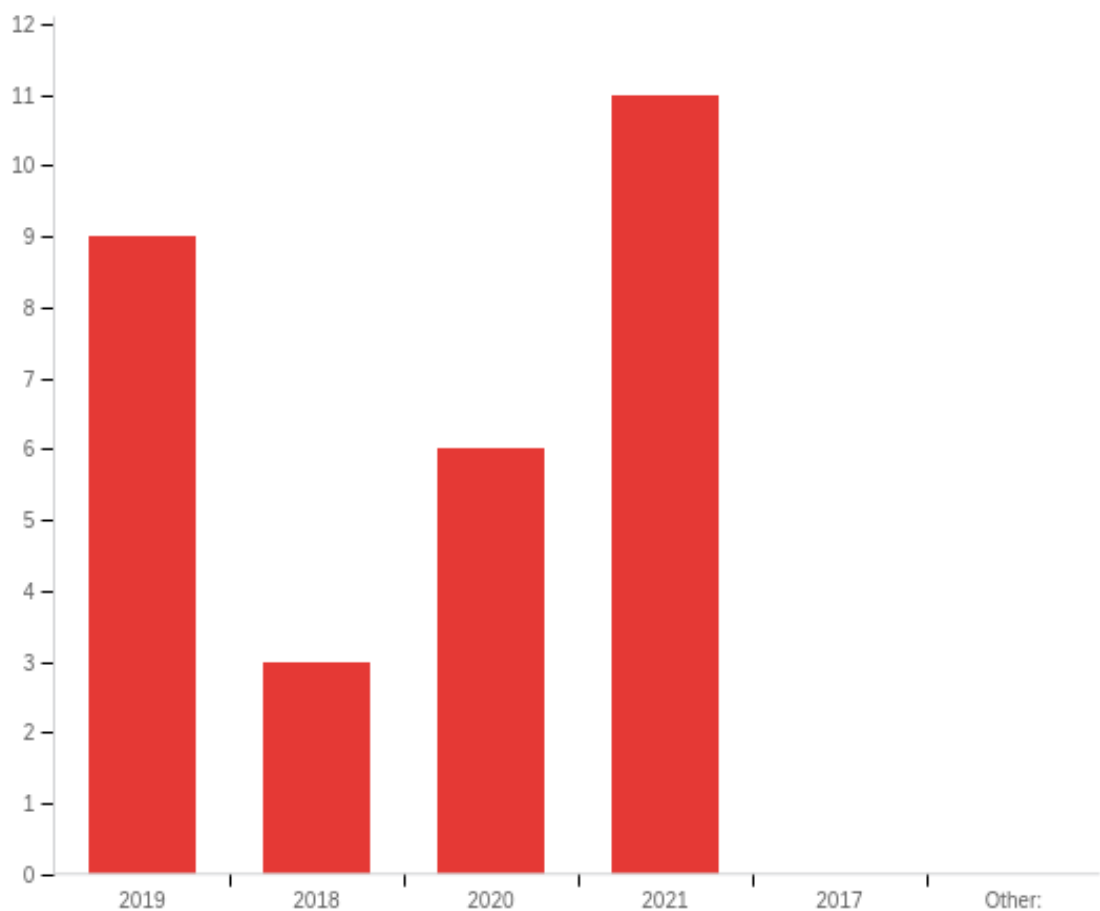
| # | Answer | % | Count |
|----|-------------------------|--------|-------|
| 19 | To a great extent | 2.22% | 1 |
| 20 | Not at all | 28.89% | 13 |
| 21 | To a moderate extent | 15.56% | 7 |
| 22 | To a very little extent | 37.78% | 17 |
| 23 | To a slight extent | 15.56% | 7 |
| | Total | 100% | 45 |

2021 Alumni Survey

Alumni Survey - Bachelor of Computing degree programs

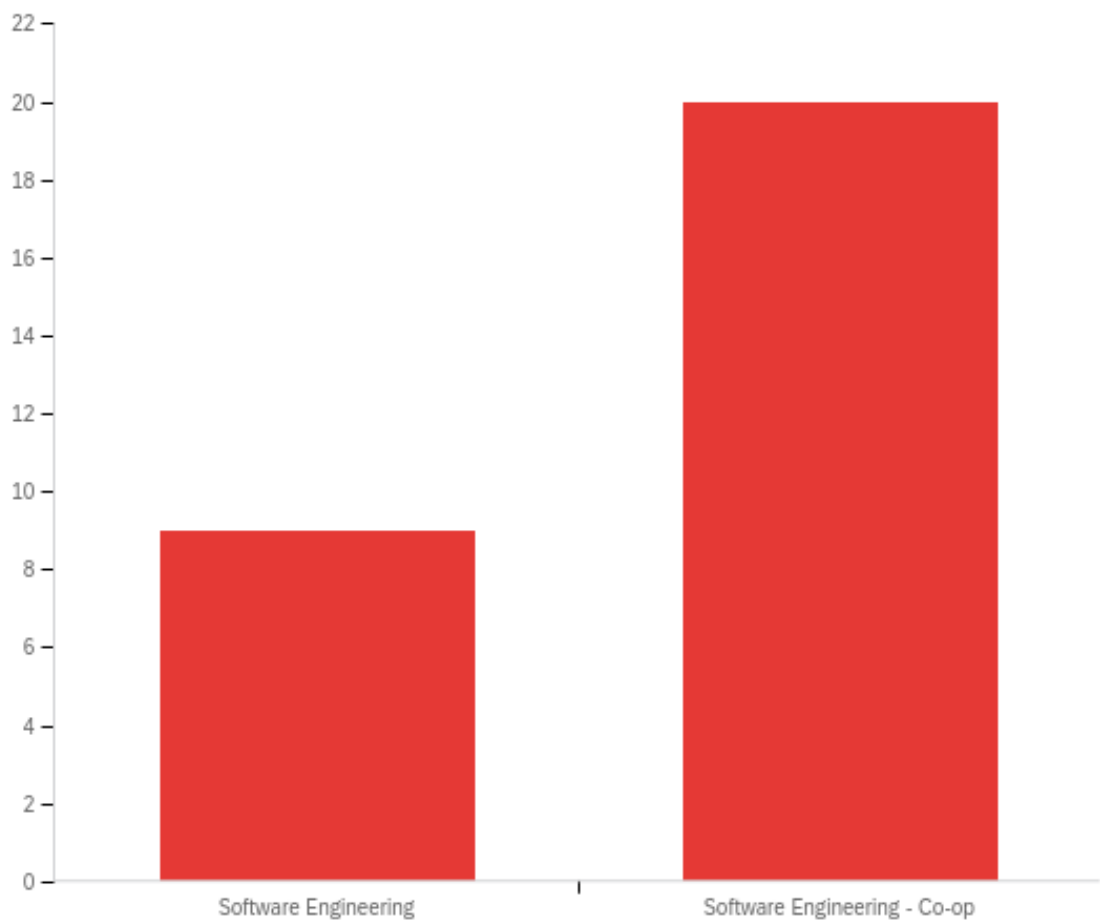
August 12th 2021, 11:12 am MDT

Q3 - What year did you graduate from your BComp degree program at the University?



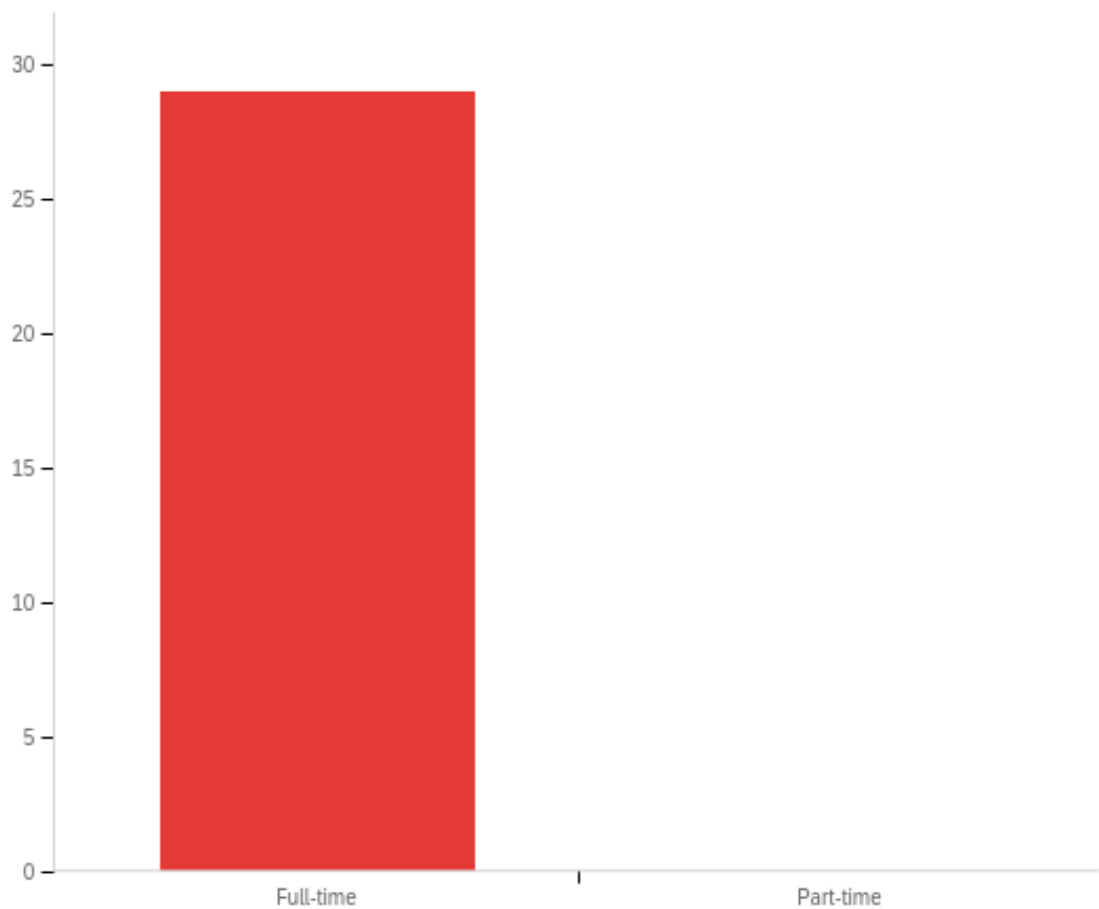
| # | Answer | % | Count |
|----|--------|--------|-------|
| 24 | 2019 | 31.03% | 9 |
| 25 | 2018 | 10.34% | 3 |
| 58 | 2020 | 20.69% | 6 |
| 59 | 2021 | 37.93% | 11 |
| 60 | 2017 | 0.00% | 0 |
| 61 | Other: | 0.00% | 0 |
| | Total | 100% | 29 |

Q22 - From which BComp degree program at the University did you graduate?

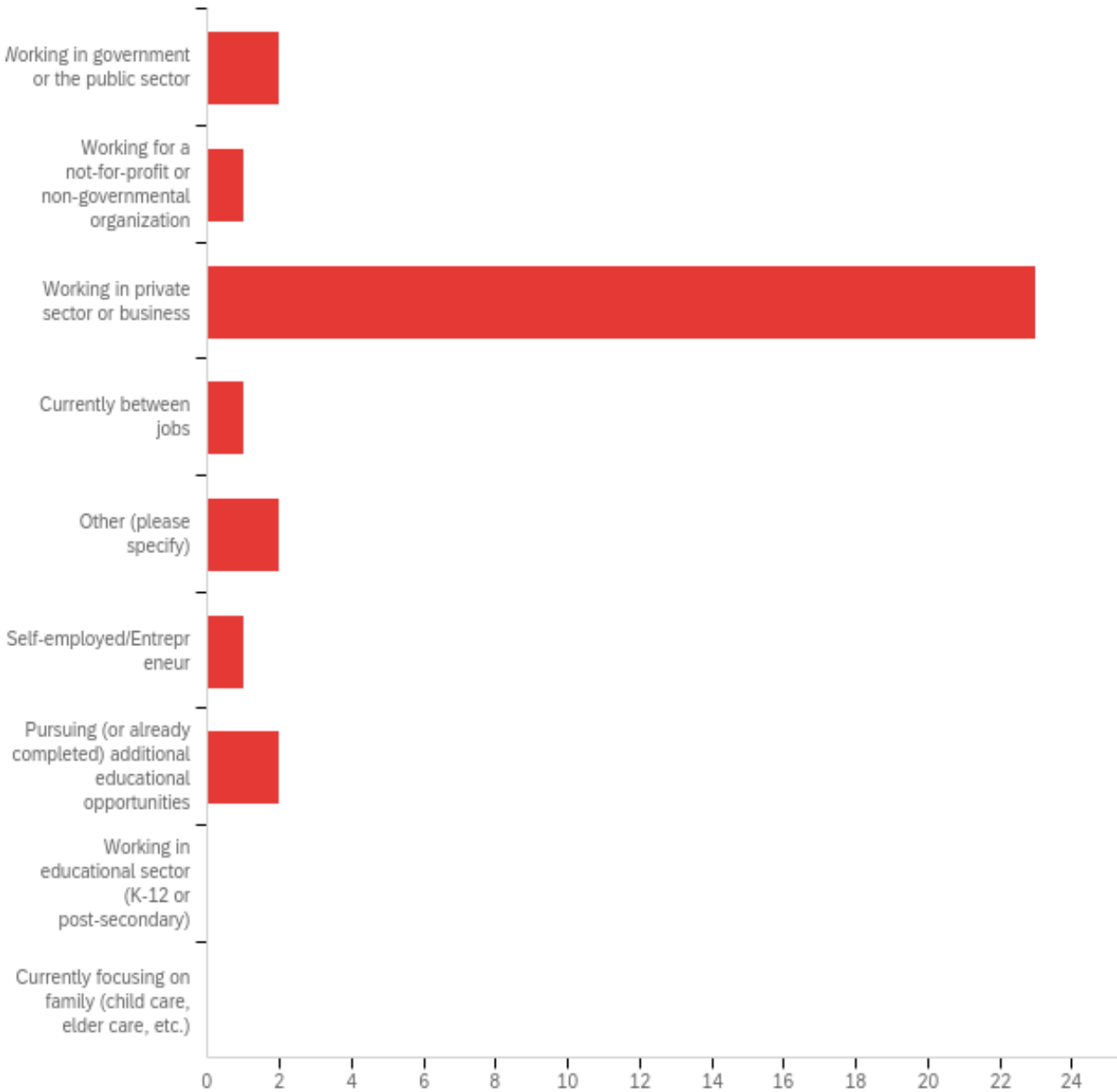


| # | Answer | % | Count |
|----|------------------------------|--------|-------|
| 59 | Software Engineering | 31.03% | 9 |
| 58 | Software Engineering - Co-op | 68.97% | 20 |
| | Total | 100% | 29 |

Q4 - Were you primarily a full-time or part-time student? Full-time: 2.0 credits or more per semester Part-time: 1.5 credits per semester



Q5 - Which of the following describes your current academic or professional career status? (multiple options can be selected)



| # | Answer | % | Count |
|---|---|--------|-------|
| 1 | Working in government or the public sector | 6.25% | 2 |
| 3 | Working for a not-for-profit or non-governmental organization | 3.13% | 1 |
| 4 | Working in private sector or business | 71.88% | 23 |
| 6 | Currently between jobs | 3.13% | 1 |

| | | | |
|----|--|-------|----|
| 7 | Other (please specify) | 6.25% | 2 |
| 8 | Self-employed/Entrepreneur | 3.13% | 1 |
| 9 | Pursuing (or already completed) additional educational opportunities | 6.25% | 2 |
| 13 | Working in educational sector (K-12 or post-secondary) | 0.00% | 0 |
| 14 | Currently focusing on family (child care, elder care, etc.) | 0.00% | 0 |
| | Total | 100% | 32 |

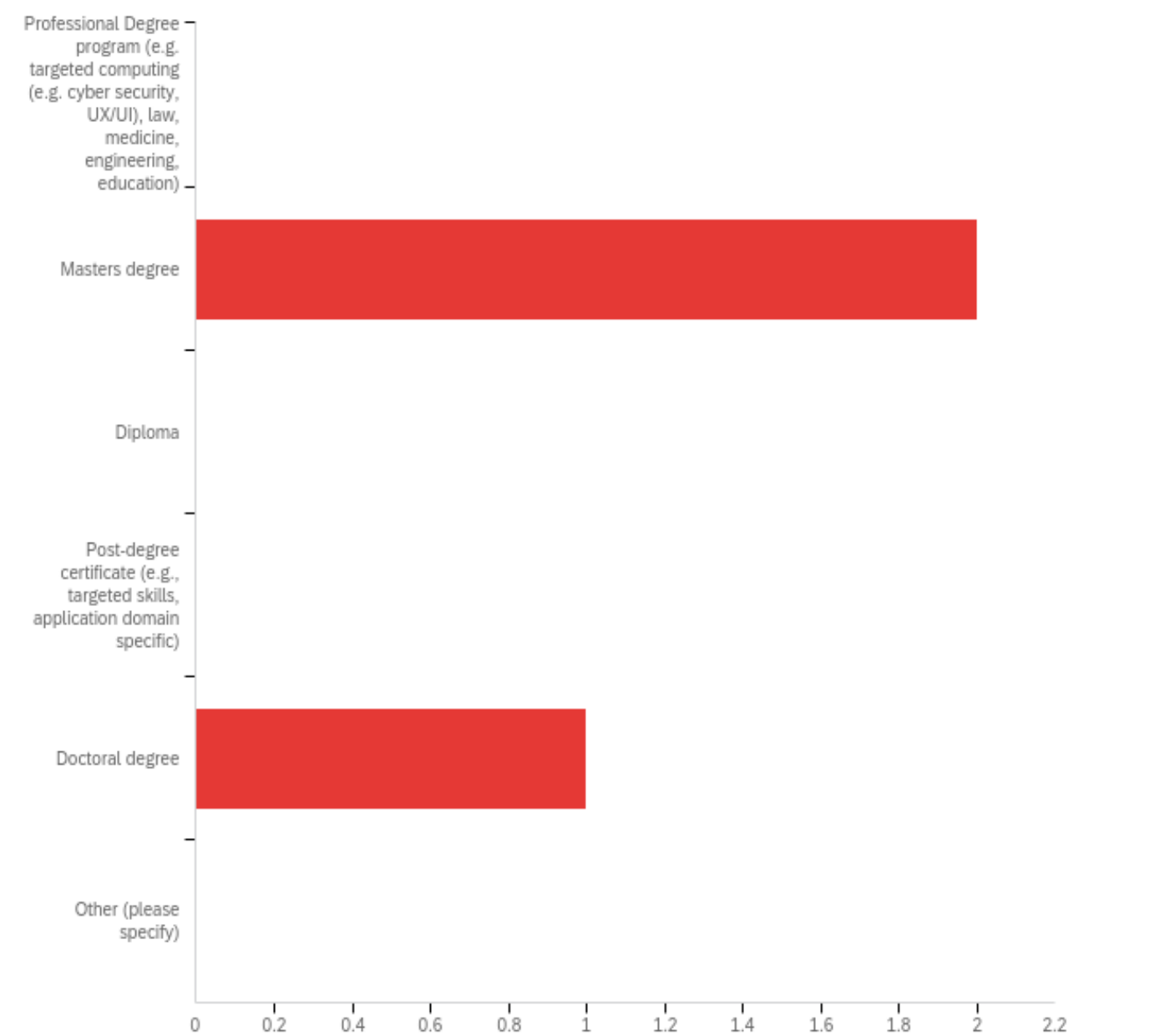
Q5_7_TEXT - Other (please specify)

Other (please specify) - Text

Working under a university project, grant funded

Unemployed

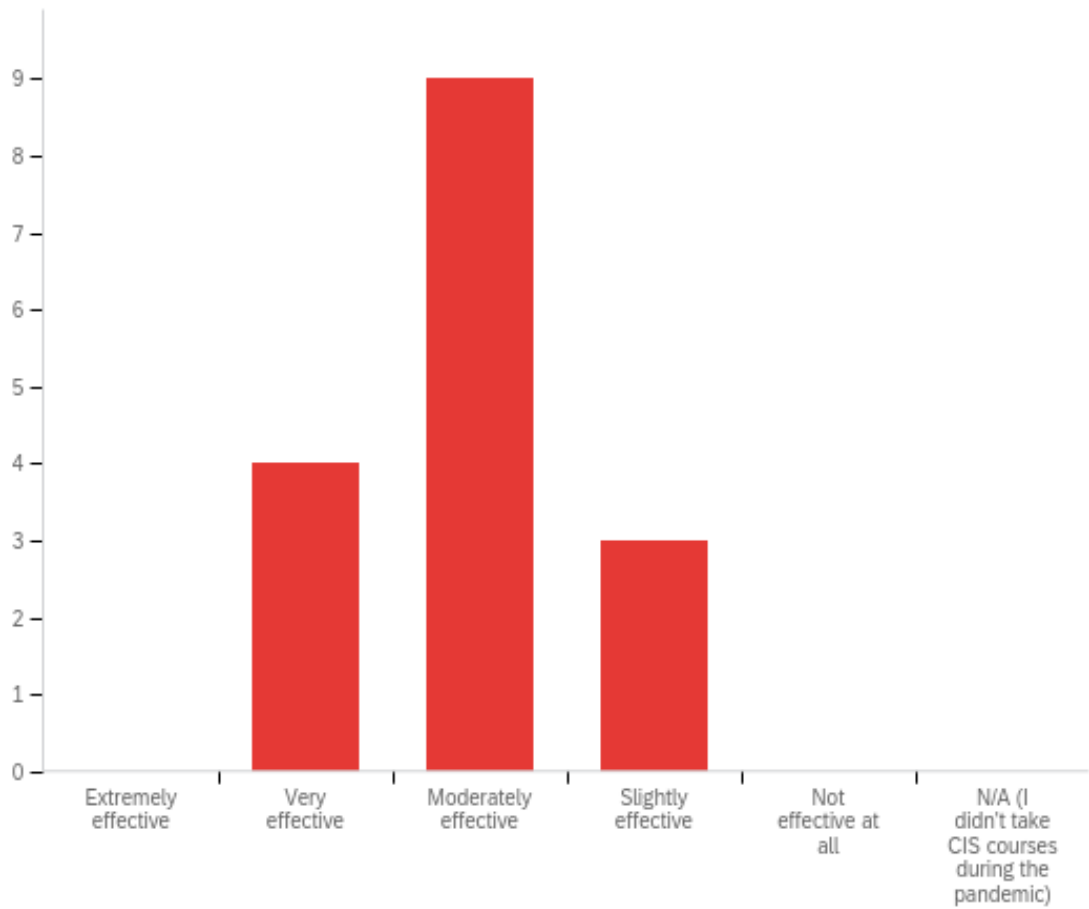
Q6 - Please indicate the type of program you are pursuing, or have already completed (more than one option can be selected)



| # | Answer | % | Count |
|---|---|--------|-------|
| 1 | Professional Degree program (e.g. targeted computing (e.g. cyber security, UX/UI), law, medicine, engineering, education) | 0.00% | 0 |
| 2 | Masters degree | 66.67% | 2 |
| 3 | Diploma | 0.00% | 0 |
| 4 | Post-degree certificate (e.g., targeted skills, application domain specific) | 0.00% | 0 |

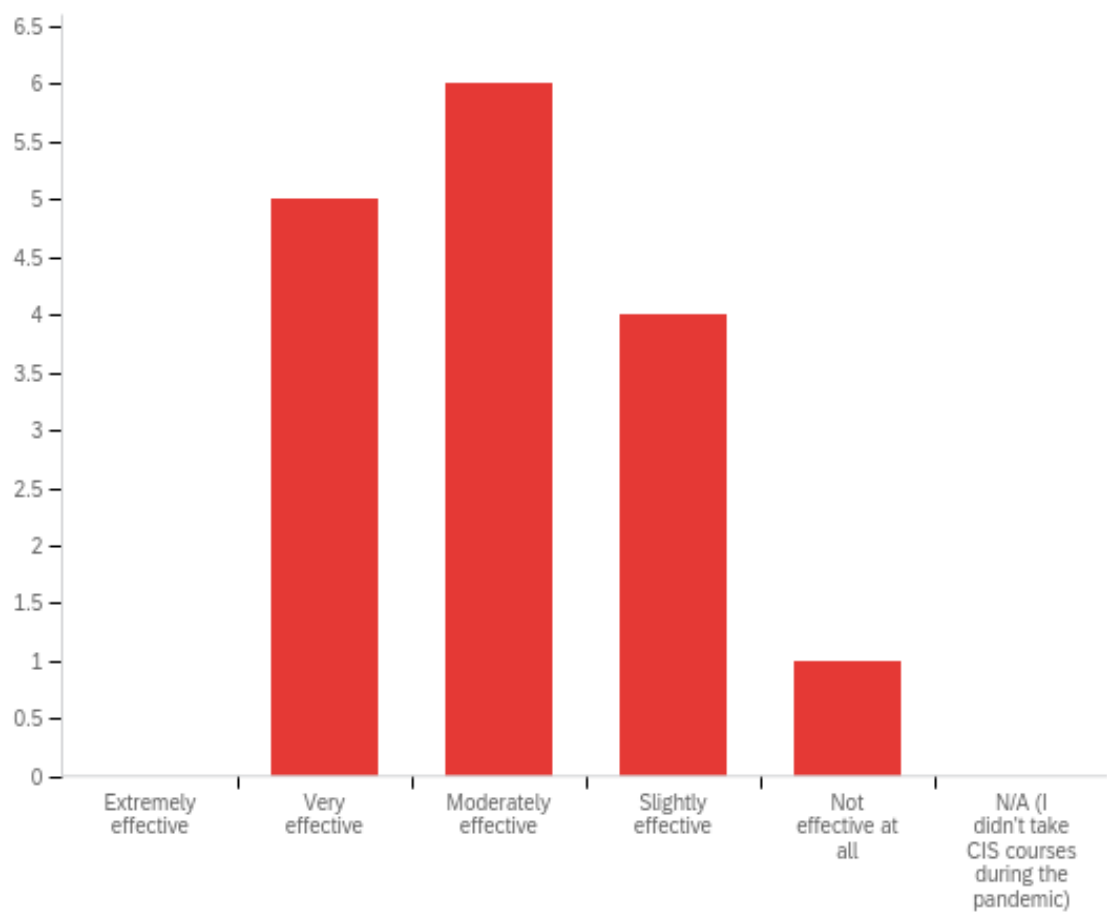
| | | | |
|----|------------------------|--------|---|
| 7 | Doctoral degree | 33.33% | 1 |
| 16 | Other (please specify) | 0.00% | 0 |
| | Total | 100% | 3 |

Q53 - Overall, how effective do you feel SoCS faculty and staff delivered your CIS courses online during COVID-impacted terms? (consider all courses)



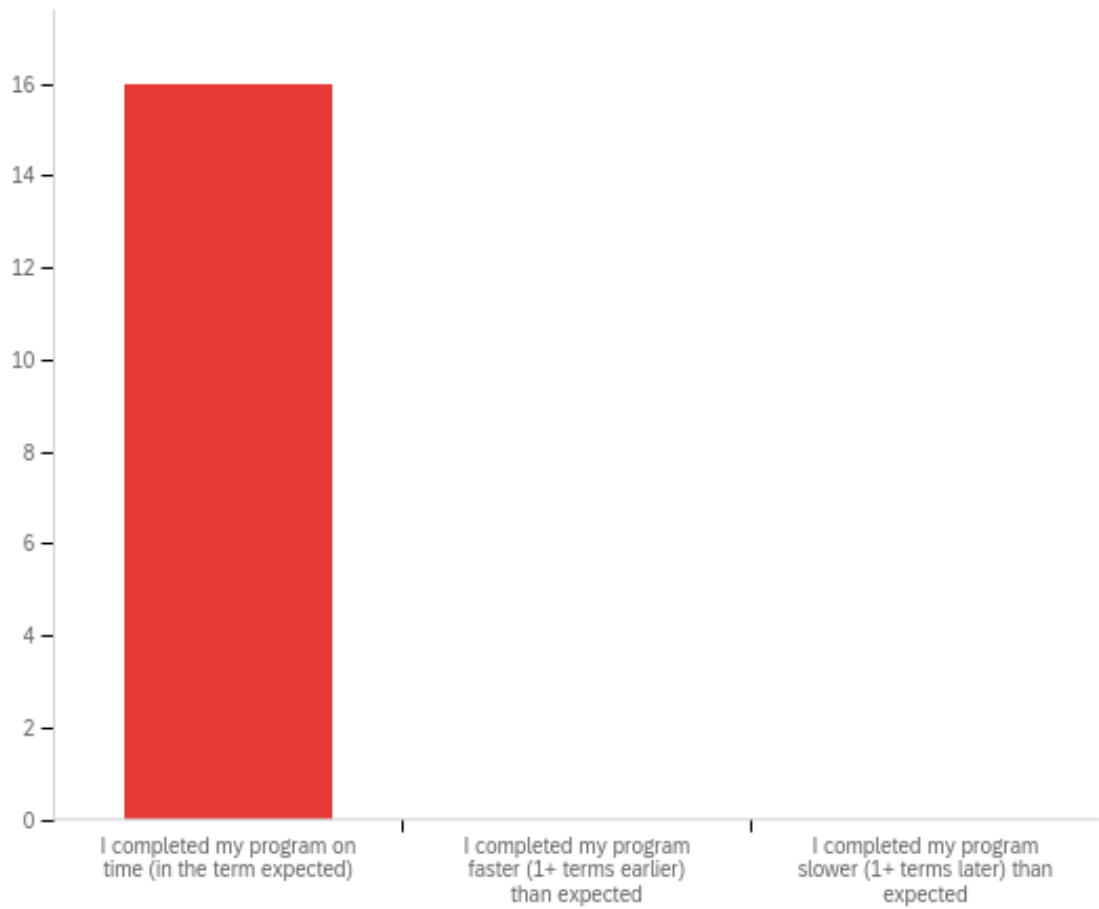
| # | Answer | % | Count |
|----|---|--------|-------|
| 50 | Extremely effective | 0.00% | 0 |
| 51 | Very effective | 25.00% | 4 |
| 52 | Moderately effective | 56.25% | 9 |
| 53 | Slightly effective | 18.75% | 3 |
| 54 | Not effective at all | 0.00% | 0 |
| 55 | N/A (I didn't take CIS courses during the pandemic) | 0.00% | 0 |
| | Total | 100% | 16 |

Q61 - What was your overall impression of learning CIS course content and skills in a remote learning format compared to pre-COVID in-person learning formats?



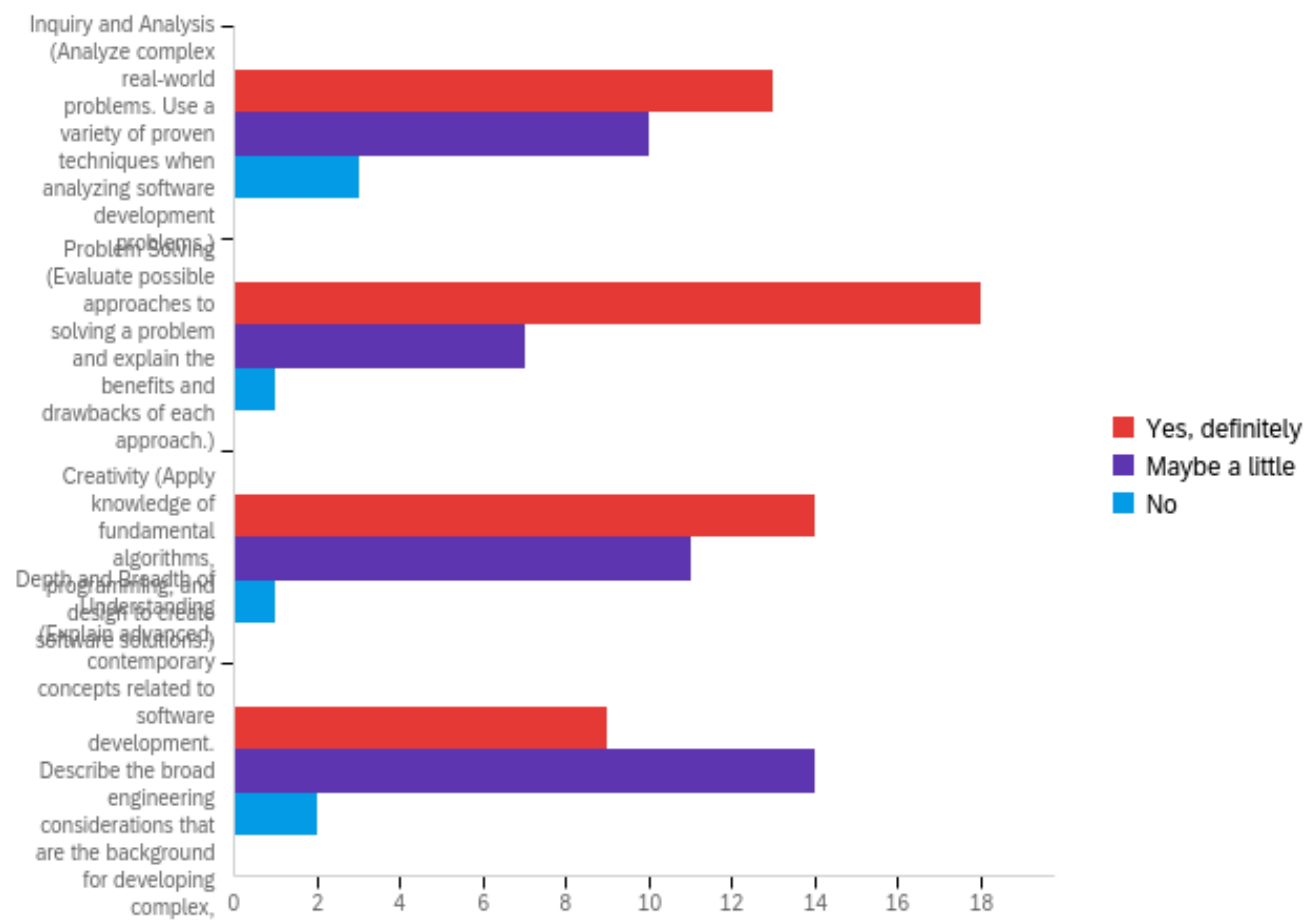
| # | Answer | % | Count |
|----|---|--------|-------|
| 9 | Extremely effective | 0.00% | 0 |
| 10 | Very effective | 31.25% | 5 |
| 11 | Moderately effective | 37.50% | 6 |
| 12 | Slightly effective | 25.00% | 4 |
| 13 | Not effective at all | 6.25% | 1 |
| 14 | N/A (I didn't take CIS courses during the pandemic) | 0.00% | 0 |
| | Total | 100% | 16 |

Q54 - What, if any, impact do you feel the pivot to remote learning had on your expected program completion time?



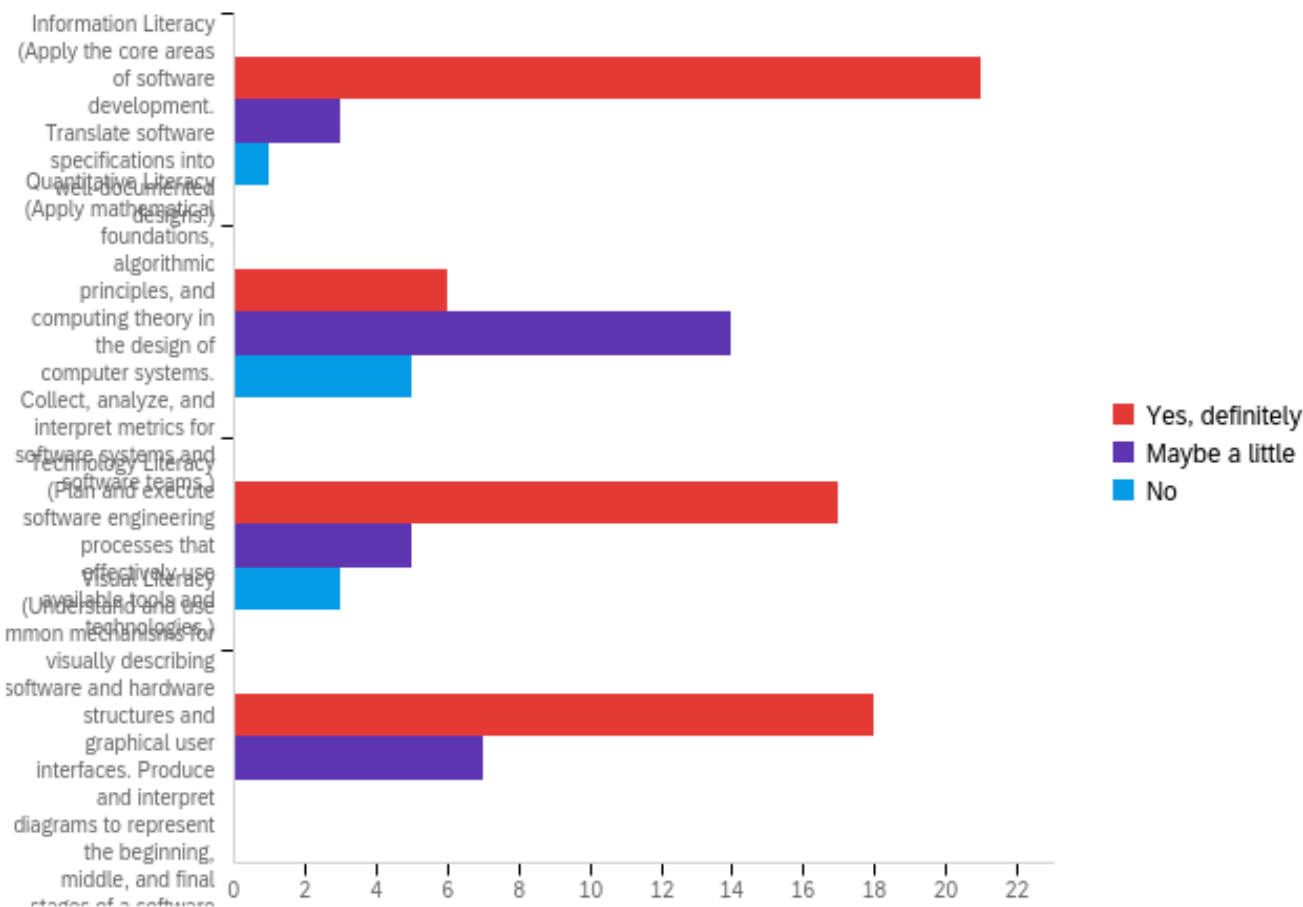
| # | Answer | % | Count |
|---|--|---------|-------|
| 1 | I completed my program on time (in the term expected) | 100.00% | 16 |
| 2 | I completed my program faster (1+ terms earlier) than expected | 0.00% | 0 |
| 3 | I completed my program slower (1+ terms later) than expected | 0.00% | 0 |
| | Total | 100% | 16 |

Q40 - Program Learning Outcomes: Critical and Creative Thinking Based on your program experiences, do you feel you developed the following critical and creative thinking knowledge, skills, or abilities during your BComp Software Engineering program (co-op or regular stream)?



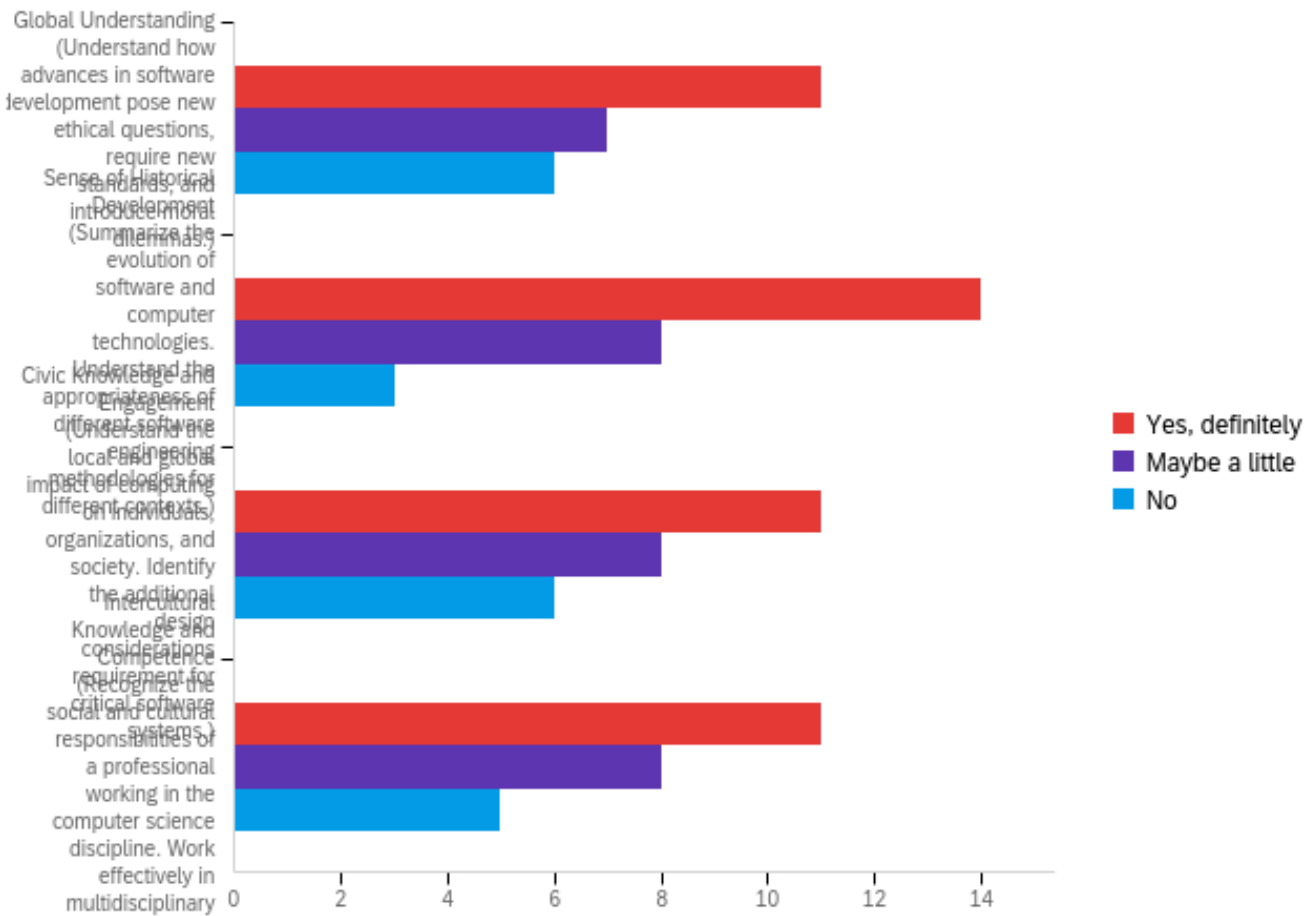
| # | Question | Yes, definitely | | Maybe a little | | No | | Total |
|---|---|-----------------|----|----------------|----|--------|---|-------|
| 1 | Inquiry and Analysis (Analyze complex real--world problems. Use a variety of proven techniques when analyzing software development problems.) | 50.00% | 13 | 38.46% | 10 | 11.54% | 3 | 26 |
| 2 | Problem Solving (Evaluate possible approaches to solving a problem and explain the benefits and drawbacks of each approach.) | 69.23% | 18 | 26.92% | 7 | 3.85% | 1 | 26 |
| 3 | Creativity (Apply knowledge of fundamental algorithms, programming, and design to create software solutions.) | 53.85% | 14 | 42.31% | 11 | 3.85% | 1 | 26 |
| 4 | Depth and Breadth of Understanding (Explain advanced, contemporary concepts related to software development. Describe the broad engineering considerations that are the background for developing complex, software-intensive systems.) | 36.00% | 9 | 56.00% | 14 | 8.00% | 2 | 25 |

Q41 - Program Learning Outcomes: Literacy Based on your program experiences, do you feel you developed the following literacy knowledge, skills, or abilities during your BComp Software Engineering program (co-op or regular stream)?



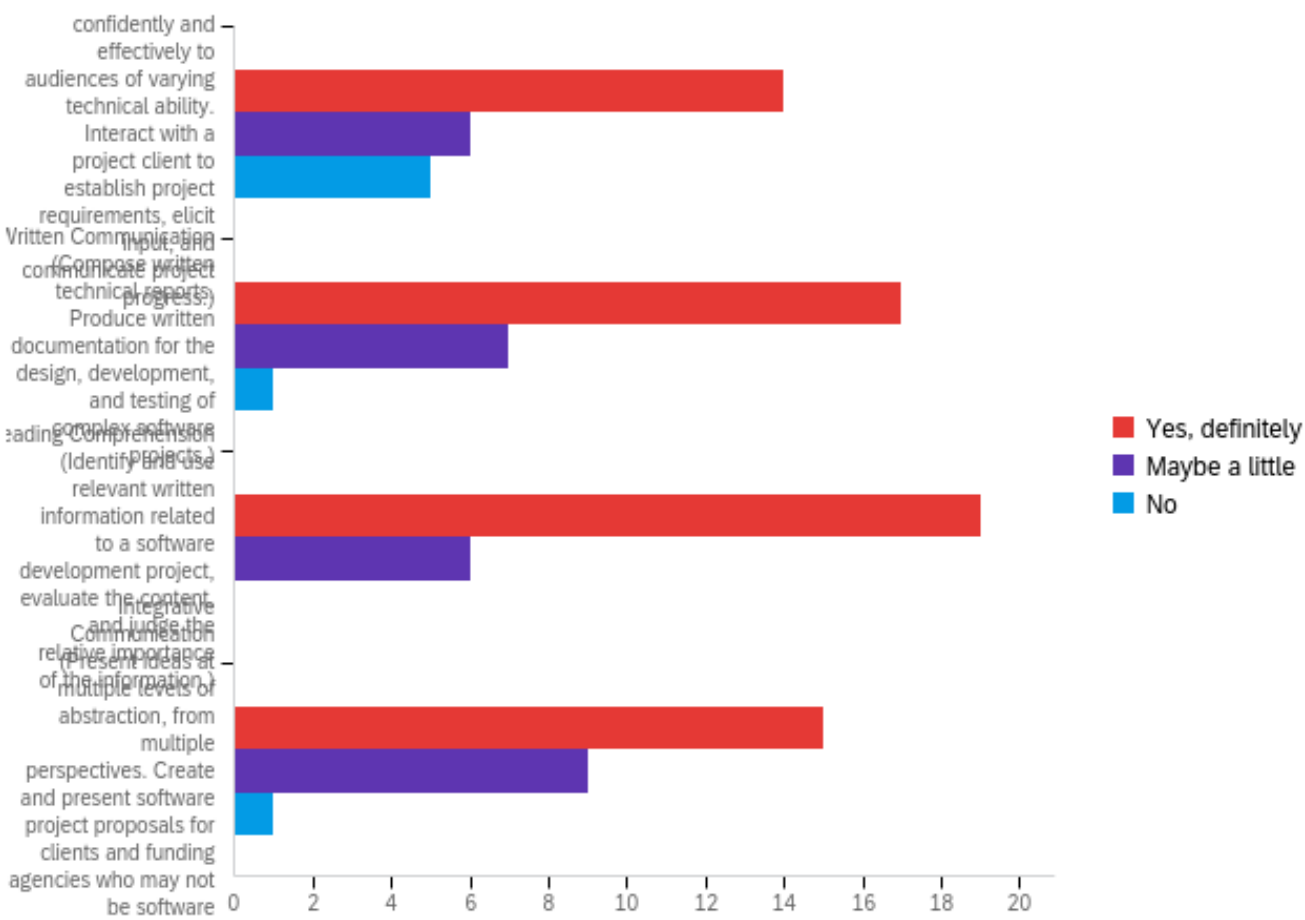
| # | Question | Yes, definitely | Maybe a little | No | Total |
|---|---|-----------------|----------------|-------------|-------|
| 1 | Information Literacy (Apply the core areas of software development. Translate software specifications into well-documented designs.) | 84.00% 21 | 12.00% 3 | 4.00% 1 | 25 |
| 2 | Quantitative Literacy (Apply mathematical foundations, algorithmic principles, and computing theory in the design of computer systems. Collect, analyze, and interpret metrics for software systems and software teams.) | 24.00% 6 | 56.00% 14 | 20.00% 5 | 25 |
| 3 | Technology Literacy (Plan and execute software engineering processes that effectively use available tools and technologies.) | 68.00% 17 | 20.00% 5 | 12.00% 3 | 25 |
| 4 | Visual Literacy (Understand and use common mechanisms for visually describing software and hardware structures and graphical user interfaces. Produce and interpret diagrams to represent the beginning, middle, and final stages of a software project.) | 72.00% 18 | 28.00% 7 | 0.00% 0 | 25 |

Q42 - Program Learning Outcomes: Global Understanding Based on your program experiences, do you feel you developed the following global understanding knowledge, skills, or abilities during your BComp Software Engineering program (co-op or regular stream)?



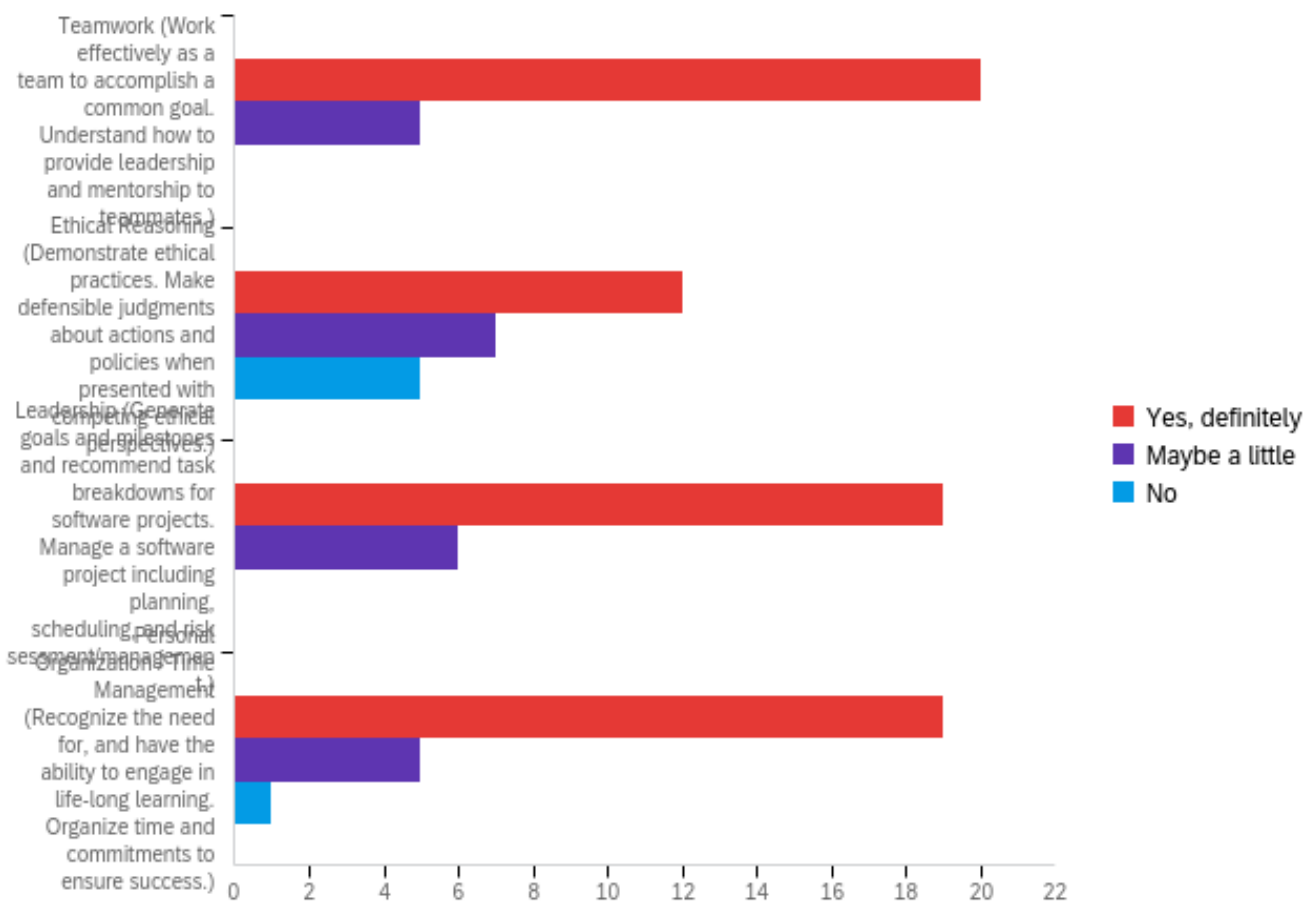
| # | Question | Yes, definitely | Maybe a little | No | Total |
|---|---|-----------------|----------------|----------|-------|
| 1 | Global Understanding (Understand how advances in software development pose new ethical questions, require new standards, and introduce moral dilemmas.) | 45.83% 11 | 29.17% 7 | 25.00% 6 | 24 |
| 2 | Sense of Historical Development (Summarize the evolution of software and computer technologies. Understand the appropriateness of different software engineering methodologies for different contexts.) | 56.00% 14 | 32.00% 8 | 12.00% 3 | 25 |
| 3 | Civic Knowledge and Engagement (Understand the local and global impact of computing on individuals, organizations, and society. Identify the additional design considerations requirement for critical software systems.) | 44.00% 11 | 32.00% 8 | 24.00% 6 | 25 |
| 4 | Intercultural Knowledge and Competence (Recognize the social and cultural responsibilities of a professional working in the computer science discipline. Work effectively in multidisciplinary teams.) | 45.83% 11 | 33.33% 8 | 20.83% 5 | 24 |

Q43 - Program Learning Outcomes: Communication Based on your program experiences, do you feel you developed the following communication knowledge, skills, or abilities during your BComp Software Engineering program (co-op or regular stream)?



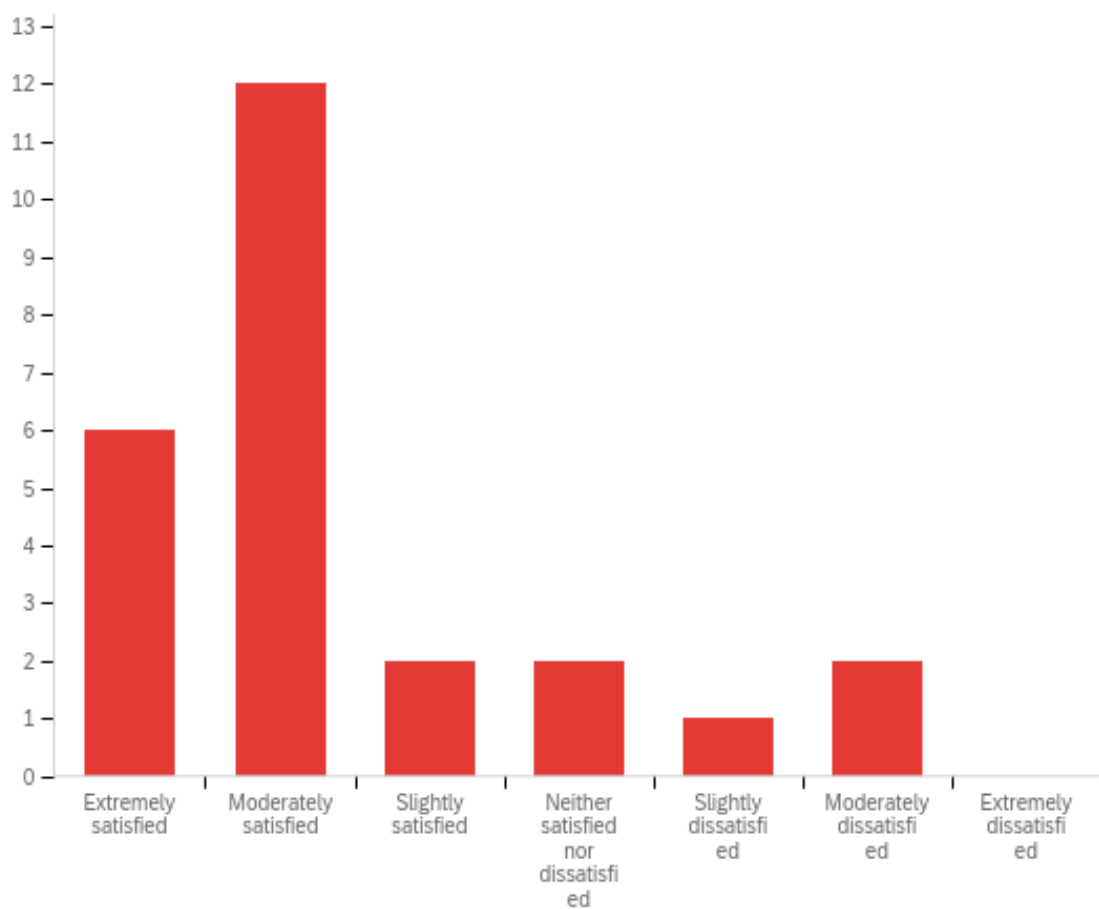
| # | Question | Yes, definitely | Maybe a little | No | Total |
|---|--|-----------------|----------------|-------------|-------|
| 1 | Oral Communication (Communicate confidently and effectively to audiences of varying technical ability. Interact with a project client to establish project requirements, elicit input, and communicate project progress.) | 56.00% 14 | 24.00% 6 | 20.00% 5 | 25 |
| 2 | Written Communication (Compose written technical reports. Produce written documentation for the design, development, and testing of complex software projects.) | 68.00% 17 | 28.00% 7 | 4.00% 1 | 25 |
| 3 | Reading Comprehension (Identify and use relevant written information related to a software development project, evaluate the content, and judge the relative importance of the information.) | 76.00% 19 | 24.00% 6 | 0.00% 0 | 25 |
| 4 | Integrative Communication (Present ideas at multiple levels of abstraction, from multiple perspectives. Create and present software project proposals for clients and funding agencies who may not be software professionals.) | 60.00% 15 | 36.00% 9 | 4.00% 1 | 25 |

Q39 - Program Learning Outcomes: Professional and Ethical Behaviour Based on your program experiences, do you feel you developed the following professional and ethical behaviour knowledge, skills, or abilities during your BComp Software Engineering program (co-op or regular stream)?



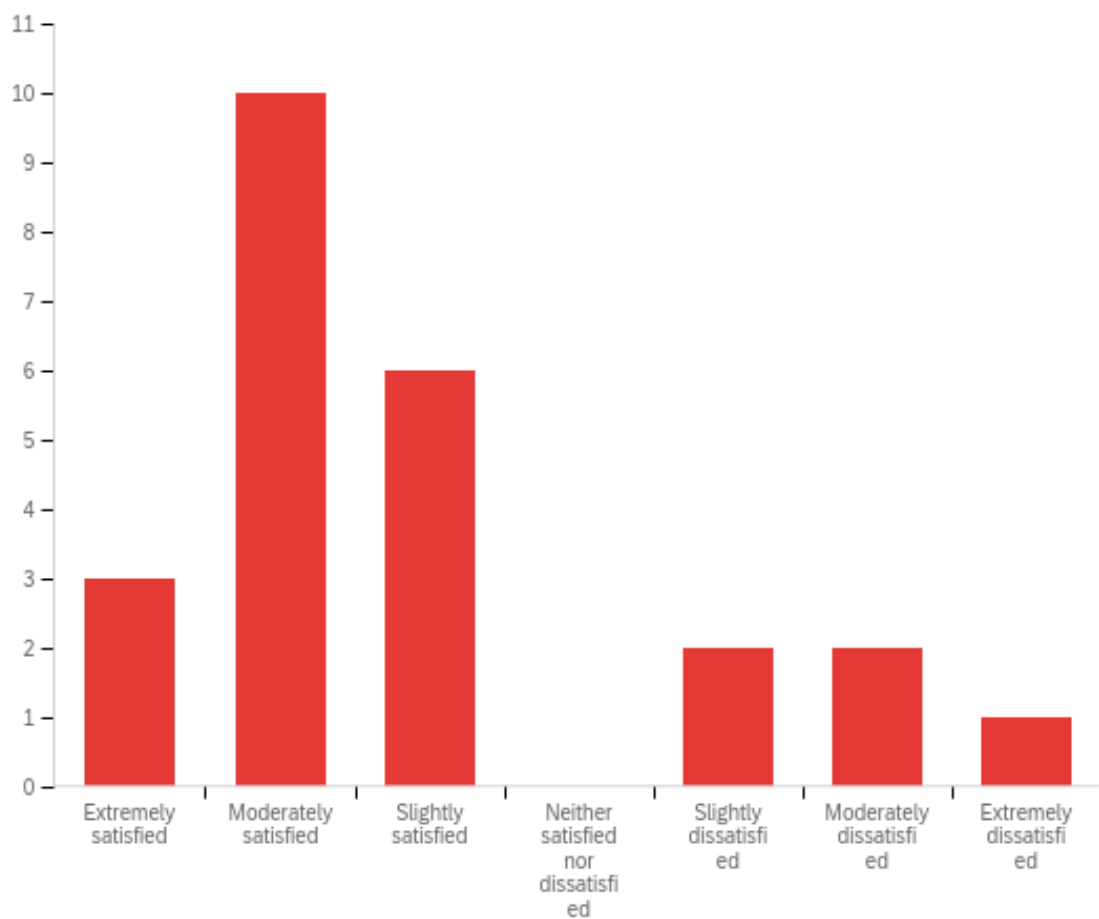
| # | Question | Yes, definitely | | Maybe a little | | No | | Total |
|---|---|-----------------|----|----------------|---|--------|---|-------|
| 1 | Teamwork (Work effectively as a team to accomplish a common goal. Understand how to provide leadership and mentorship to teammates.) | 80.00% | 20 | 20.00% | 5 | 0.00% | 0 | 25 |
| 2 | Ethical Reasoning (Demonstrate ethical practices. Make defensible judgments about actions and policies when presented with competing ethical perspectives.) | 50.00% | 12 | 29.17% | 7 | 20.83% | 5 | 24 |
| 3 | Leadership (Generate goals and milestones and recommend task breakdowns for software projects. Manage a software project including planning, scheduling, and risk assessment/management.) | 76.00% | 19 | 24.00% | 6 | 0.00% | 0 | 25 |
| 4 | Personal Organization / Time Management (Recognize the need for, and have the ability to engage in life-long learning. Organize time and commitments to ensure success.) | 76.00% | 19 | 20.00% | 5 | 4.00% | 1 | 25 |

Q8 - What best describes your overall experience in your BComp degree program during your undergraduate studies at the University of Guelph?



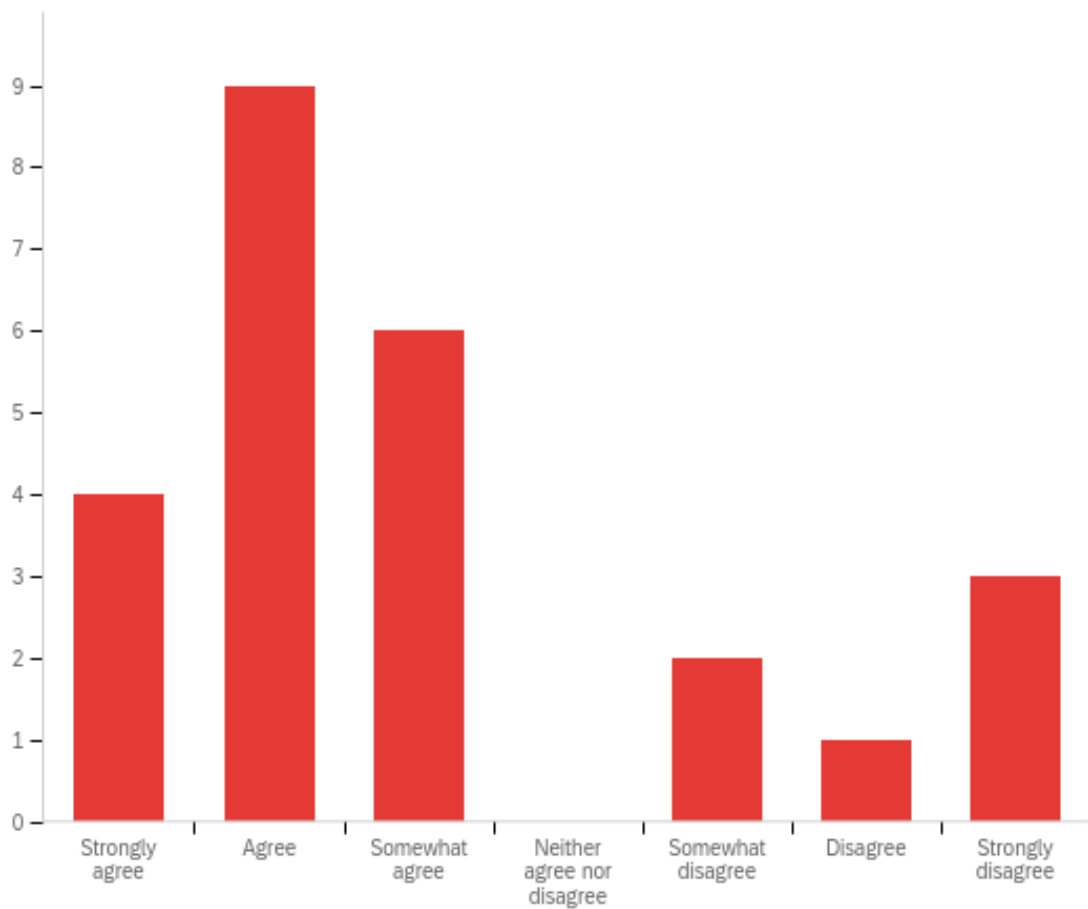
| # | Answer | % | Count |
|----|------------------------------------|--------|-------|
| 46 | Extremely satisfied | 24.00% | 6 |
| 47 | Moderately satisfied | 48.00% | 12 |
| 48 | Slightly satisfied | 8.00% | 2 |
| 49 | Neither satisfied nor dissatisfied | 8.00% | 2 |
| 50 | Slightly dissatisfied | 4.00% | 1 |
| 51 | Moderately dissatisfied | 8.00% | 2 |
| 52 | Extremely dissatisfied | 0.00% | 0 |
| | Total | 100% | 25 |

Q9 - What best describes your level of satisfaction with the overall quality of teaching in CIS courses during your undergraduate studies at the University of Guelph?



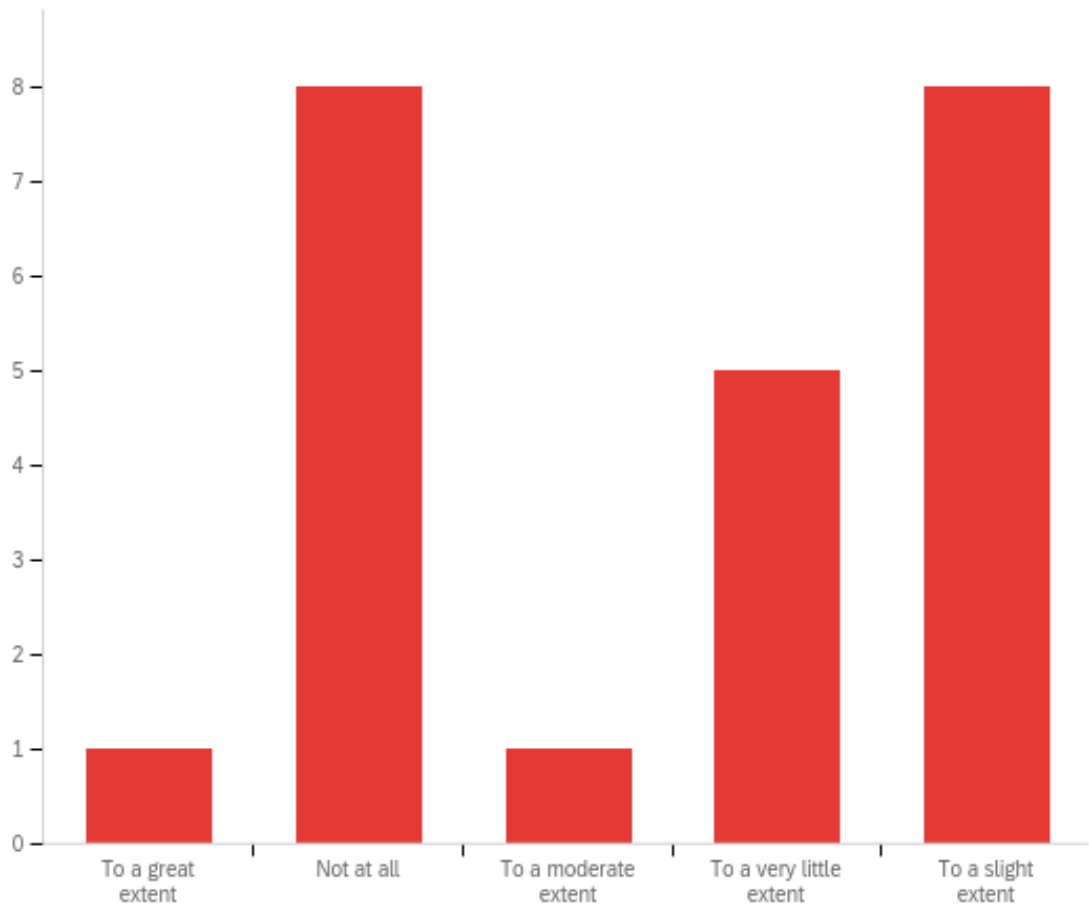
| # | Answer | % | Count |
|----|------------------------------------|--------|-------|
| 59 | Extremely satisfied | 12.50% | 3 |
| 60 | Moderately satisfied | 41.67% | 10 |
| 61 | Slightly satisfied | 25.00% | 6 |
| 62 | Neither satisfied nor dissatisfied | 0.00% | 0 |
| 63 | Slightly dissatisfied | 8.33% | 2 |
| 64 | Moderately dissatisfied | 8.33% | 2 |
| 65 | Extremely dissatisfied | 4.17% | 1 |
| | Total | 100% | 24 |

Q13 - Please indicate the extent to which you agree or disagree with the statement:
"What I learned in my Bachelor of Computing degree program prepared me for my
professional or academic career post-graduation."



| # | Answer | % | Count |
|----|----------------------------|--------|-------|
| 25 | Strongly agree | 16.00% | 4 |
| 26 | Agree | 36.00% | 9 |
| 27 | Somewhat agree | 24.00% | 6 |
| 28 | Neither agree nor disagree | 0.00% | 0 |
| 29 | Somewhat disagree | 8.00% | 2 |
| 30 | Disagree | 4.00% | 1 |
| 31 | Strongly disagree | 12.00% | 3 |
| | Total | 100% | 25 |

Q10 - To what extent did library resources and services support your progress through your BComp degree program?



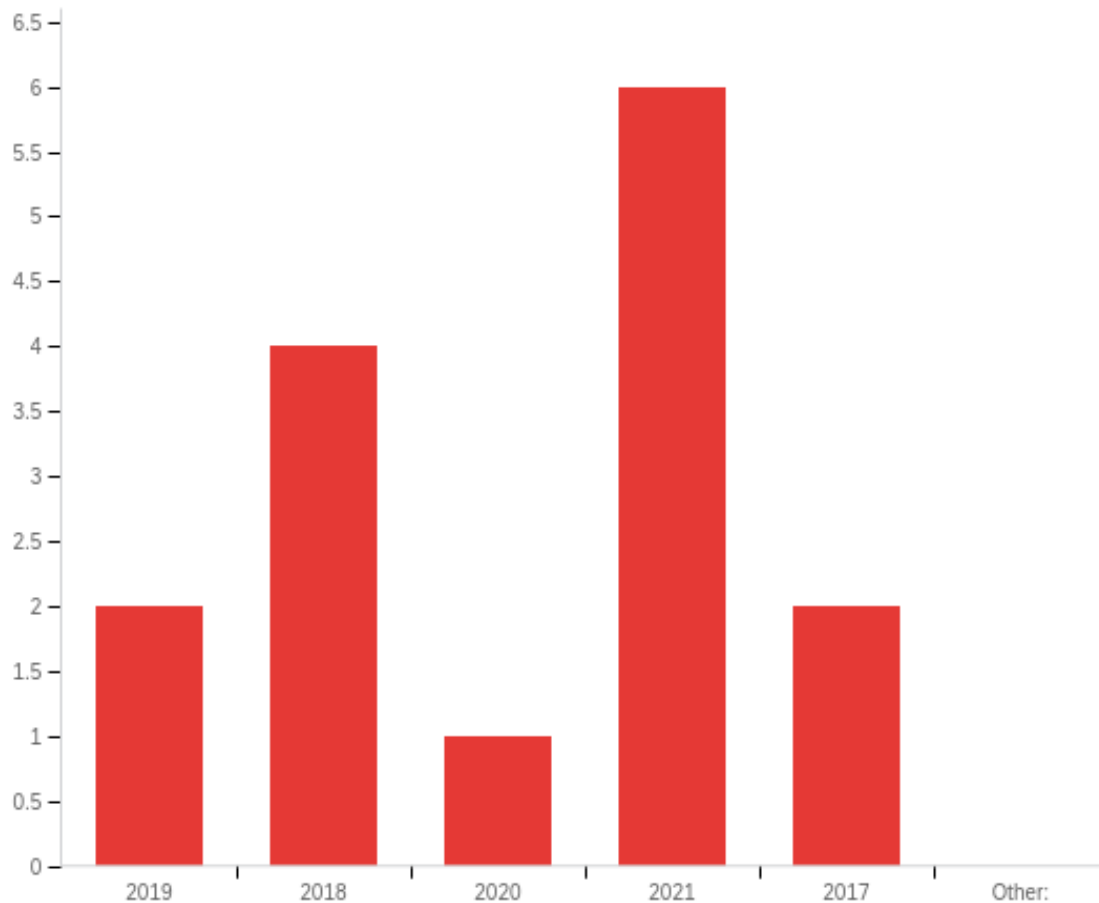
| # | Answer | % | Count |
|----|-------------------------|--------|-------|
| 19 | To a great extent | 4.35% | 1 |
| 20 | Not at all | 34.78% | 8 |
| 21 | To a moderate extent | 4.35% | 1 |
| 22 | To a very little extent | 21.74% | 5 |
| 23 | To a slight extent | 34.78% | 8 |
| | Total | 100% | 23 |

2021 Alumni Survey

Alumni Survey - Bachelor of Computing degree programs

August 12th 2021, 11:31 am MDT

Q3 - What year did you graduate from your BComp degree program at the University?



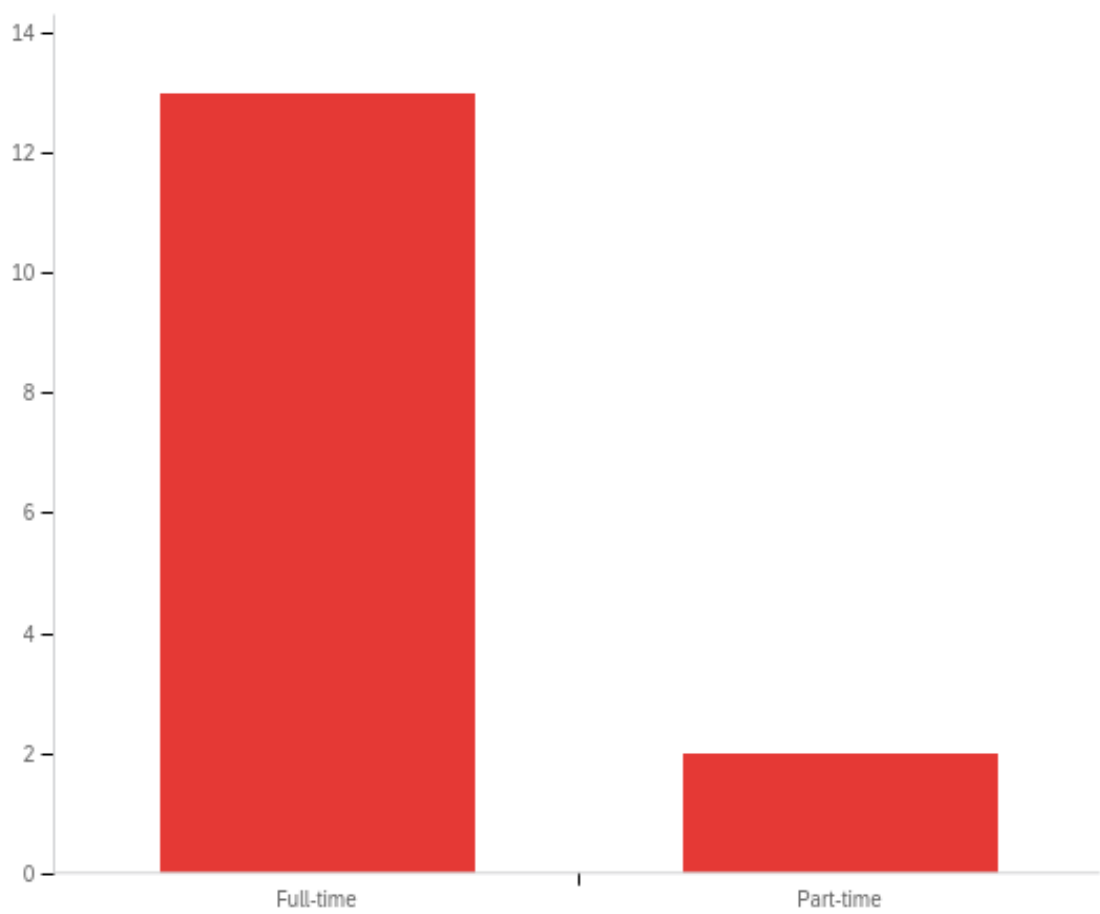
| # | Answer | % | Count |
|----|--------|--------|-------|
| 24 | 2019 | 13.33% | 2 |
| 25 | 2018 | 26.67% | 4 |
| 58 | 2020 | 6.67% | 1 |
| 59 | 2021 | 40.00% | 6 |
| 60 | 2017 | 13.33% | 2 |
| 61 | Other: | 0.00% | 0 |
| | Total | 100% | 15 |

Q22 - From which BComp degree program at the University did you graduate?

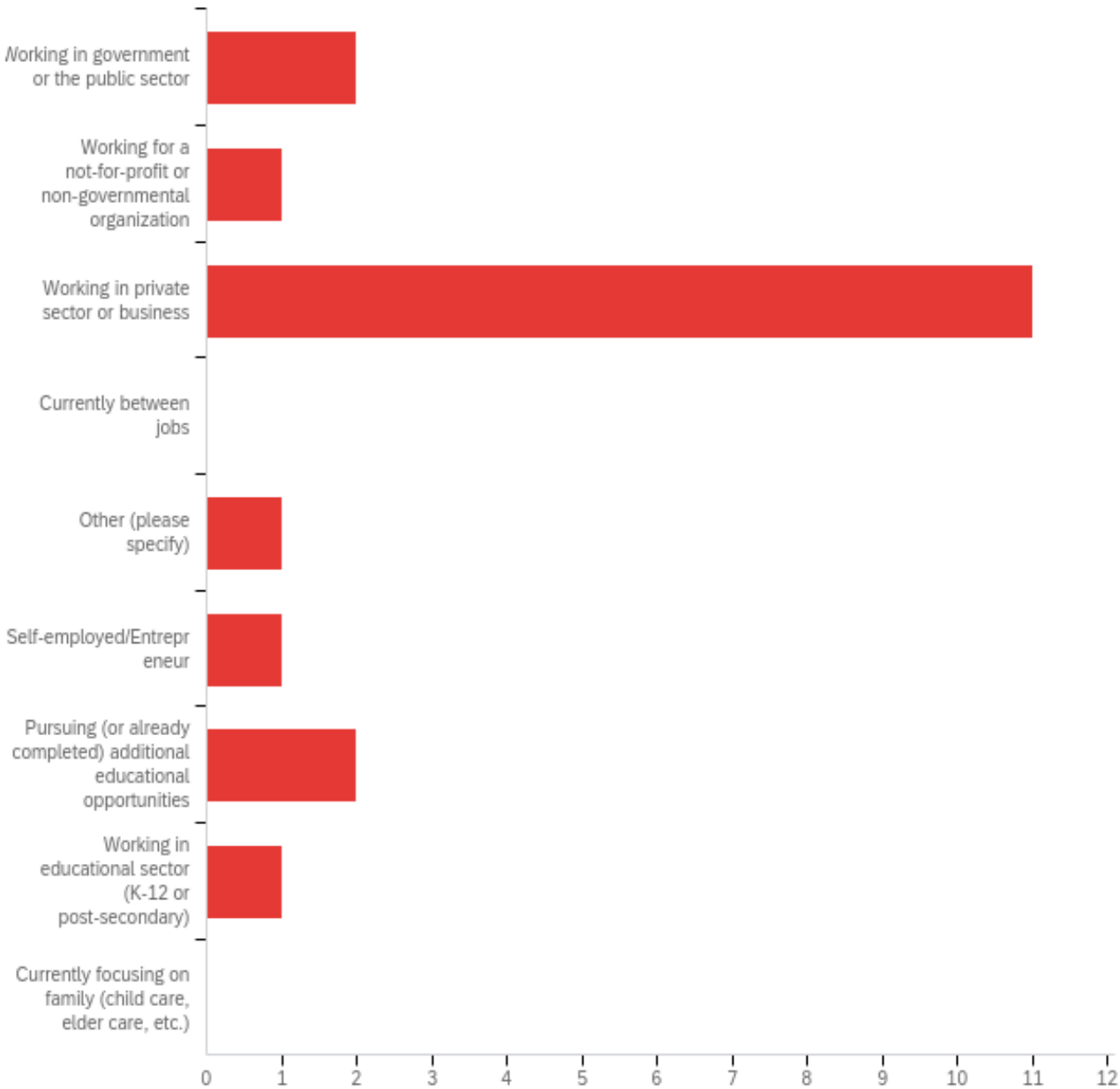


| # | Answer | % | Count |
|----|---------|---------|-------|
| 59 | General | 100.00% | 15 |
| | Total | 100% | 15 |

Q4 - Were you primarily a full-time or part-time student? Full-time: 2.0 credits or more per semester Part-time: 1.5 credits per semester



Q5 - Which of the following describes your current academic or professional career status? (multiple options can be selected)



| # | Answer | % | Count |
|---|---|--------|-------|
| 1 | Working in government or the public sector | 10.53% | 2 |
| 3 | Working for a not-for-profit or non-governmental organization | 5.26% | 1 |
| 4 | Working in private sector or business | 57.89% | 11 |
| 6 | Currently between jobs | 0.00% | 0 |

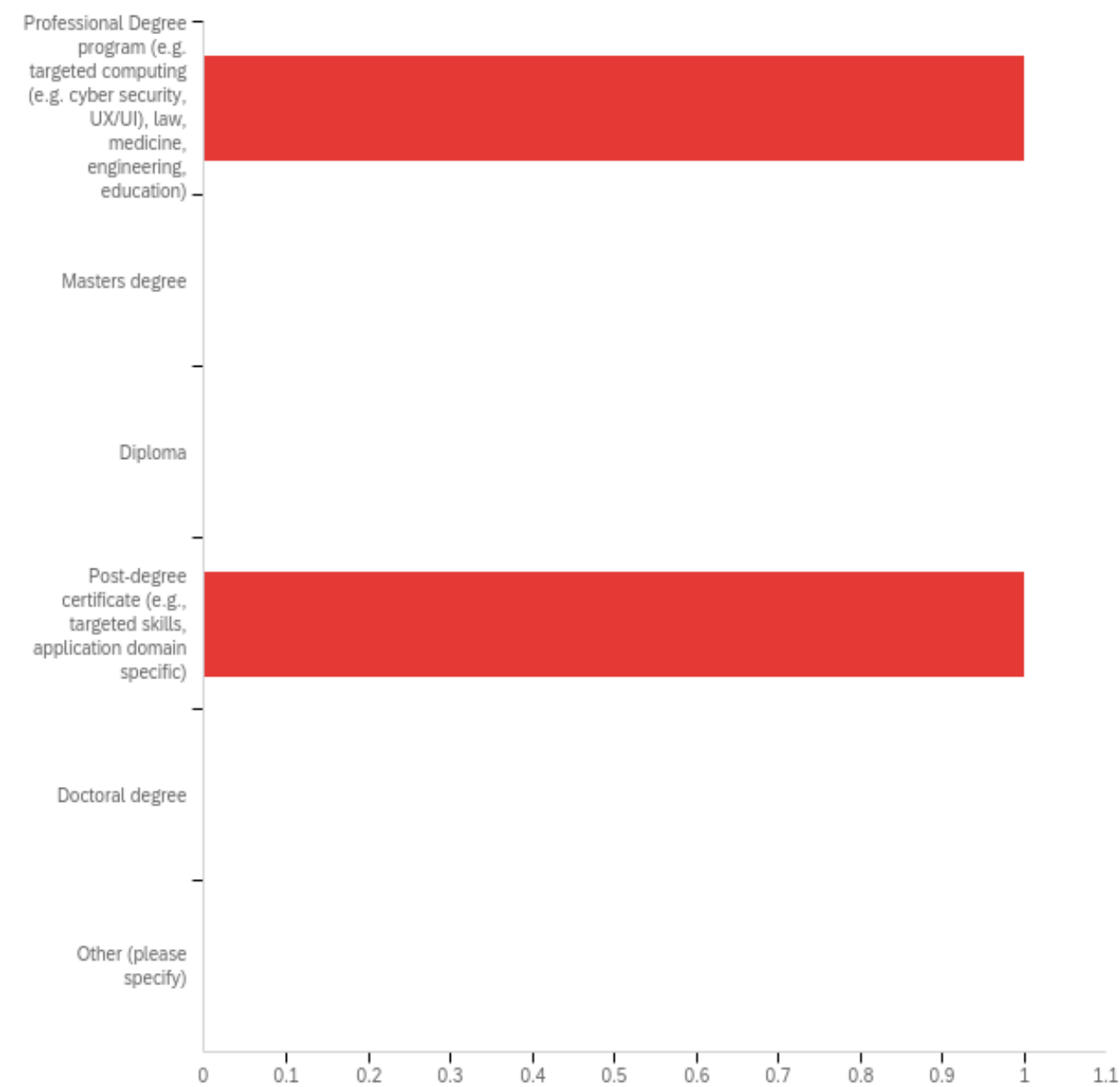
| | | | |
|----|--|--------|----|
| 7 | Other (please specify) | 5.26% | 1 |
| 8 | Self-employed/Entrepreneur | 5.26% | 1 |
| 9 | Pursuing (or already completed) additional educational opportunities | 10.53% | 2 |
| 13 | Working in educational sector (K-12 or post-secondary) | 5.26% | 1 |
| 14 | Currently focusing on family (child care, elder care, etc.) | 0.00% | 0 |
| | Total | 100% | 19 |

Q5_7_TEXT - Other (please specify)

Other (please specify) - Text

Skilled trades

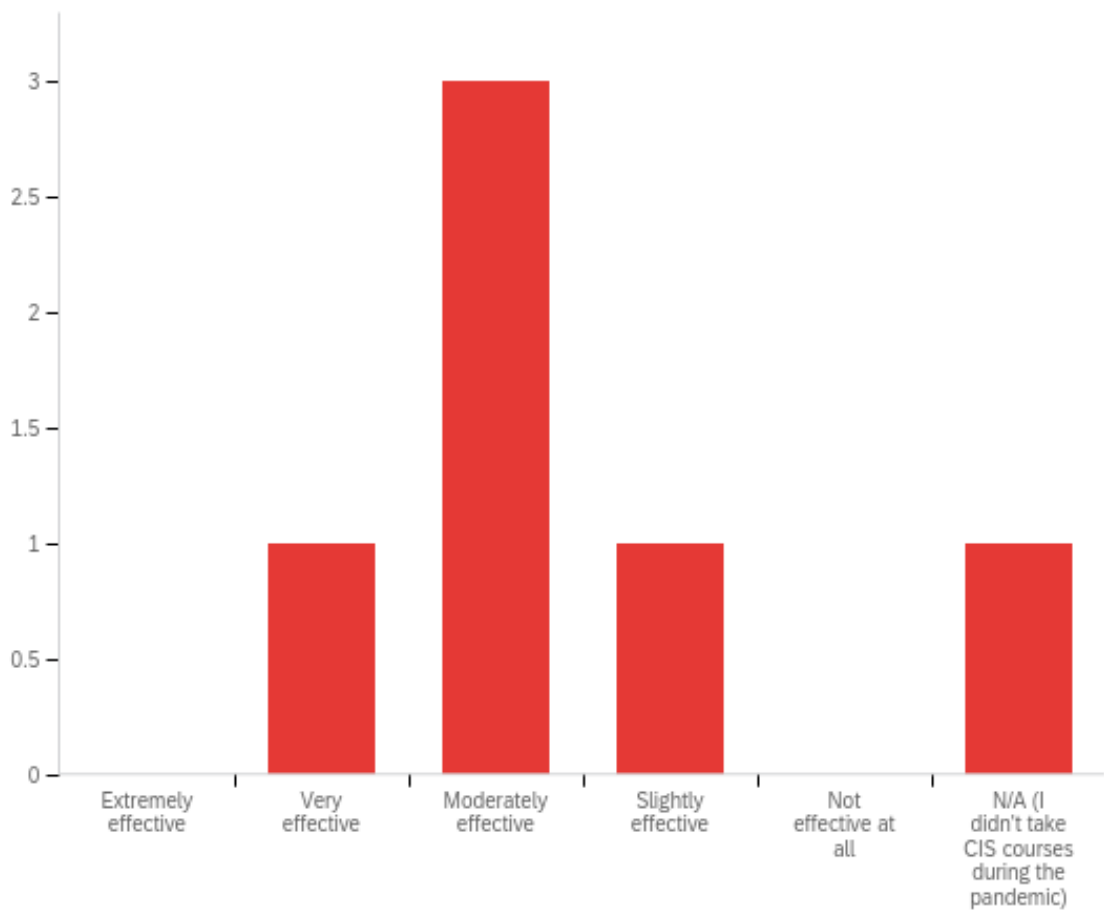
Q6 - Please indicate the type of program you are pursuing, or have already completed
(more than one option can be selected)



| # | Answer | % | Count |
|---|---|--------|-------|
| 1 | Professional Degree program (e.g. targeted computing (e.g. cyber security, UX/UI), law, medicine, engineering, education) | 50.00% | 1 |
| 2 | Masters degree | 0.00% | 0 |
| 3 | Diploma | 0.00% | 0 |
| 4 | Post-degree certificate (e.g., targeted skills, application domain specific) | 50.00% | 1 |

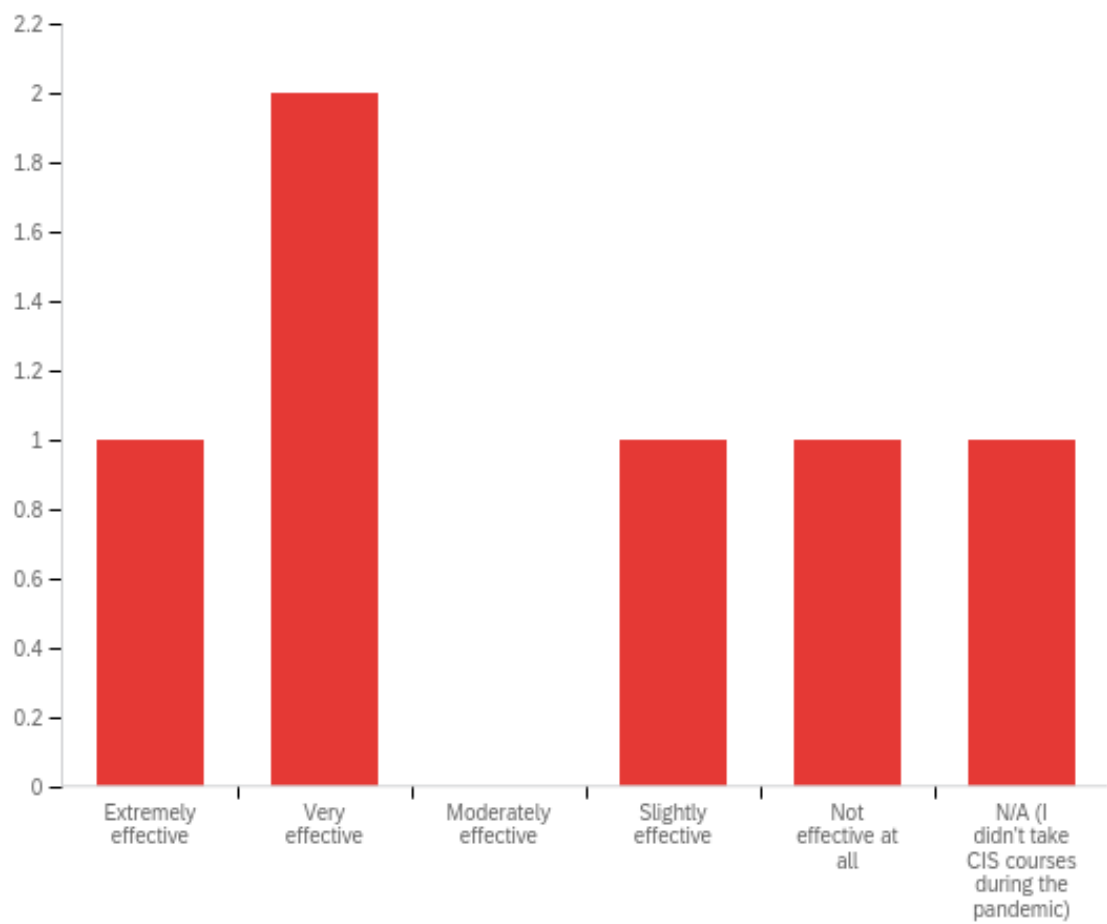
| | | | | |
|----|--|------------------------|-------|---|
| 7 | | Doctoral degree | 0.00% | 0 |
| 16 | | Other (please specify) | 0.00% | 0 |
| | | Total | 100% | 2 |

Q53 - Overall, how effective do you feel SoCS faculty and staff delivered your CIS courses online during COVID-impacted terms? (consider all courses)



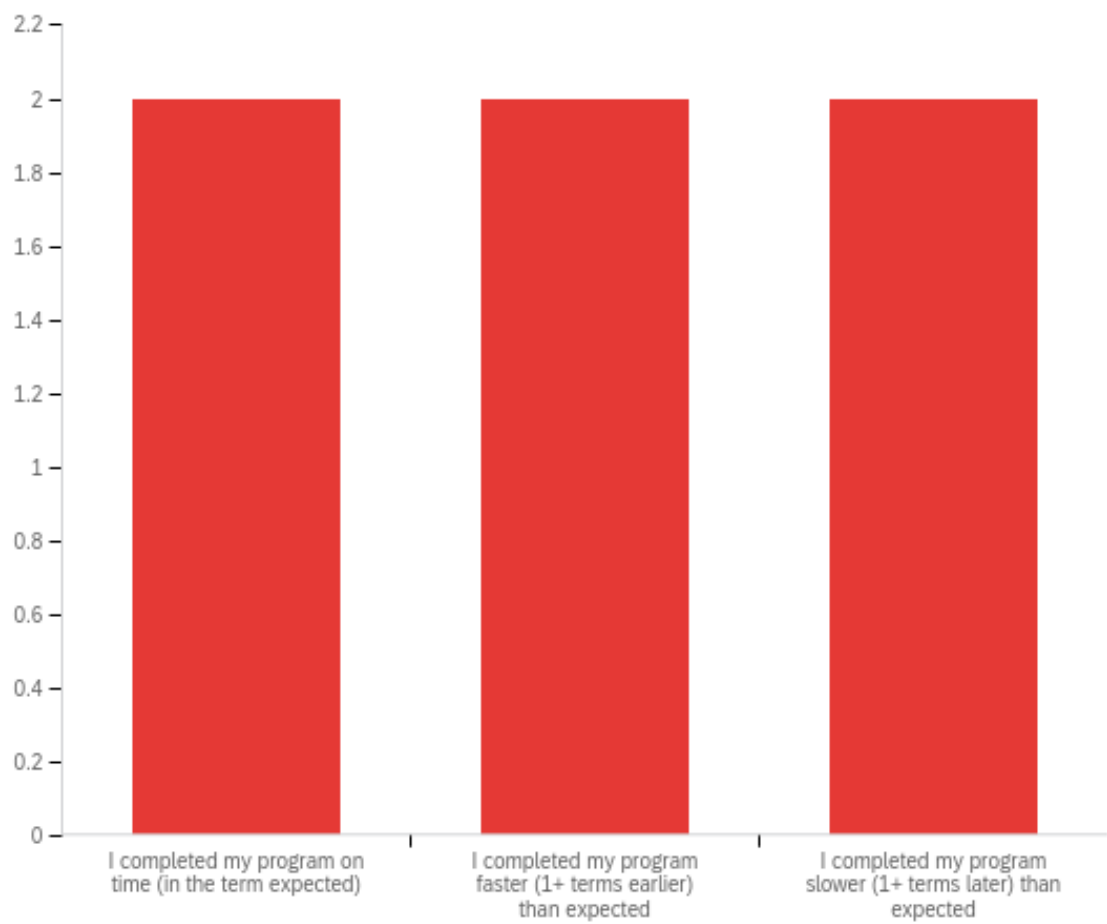
| # | Answer | % | Count |
|----|---|--------|-------|
| 50 | Extremely effective | 0.00% | 0 |
| 51 | Very effective | 16.67% | 1 |
| 52 | Moderately effective | 50.00% | 3 |
| 53 | Slightly effective | 16.67% | 1 |
| 54 | Not effective at all | 0.00% | 0 |
| 55 | N/A (I didn't take CIS courses during the pandemic) | 16.67% | 1 |
| | Total | 100% | 6 |

Q61 - What was your overall impression of learning CIS course content and skills in a remote learning format compared to pre-COVID in-person learning formats?



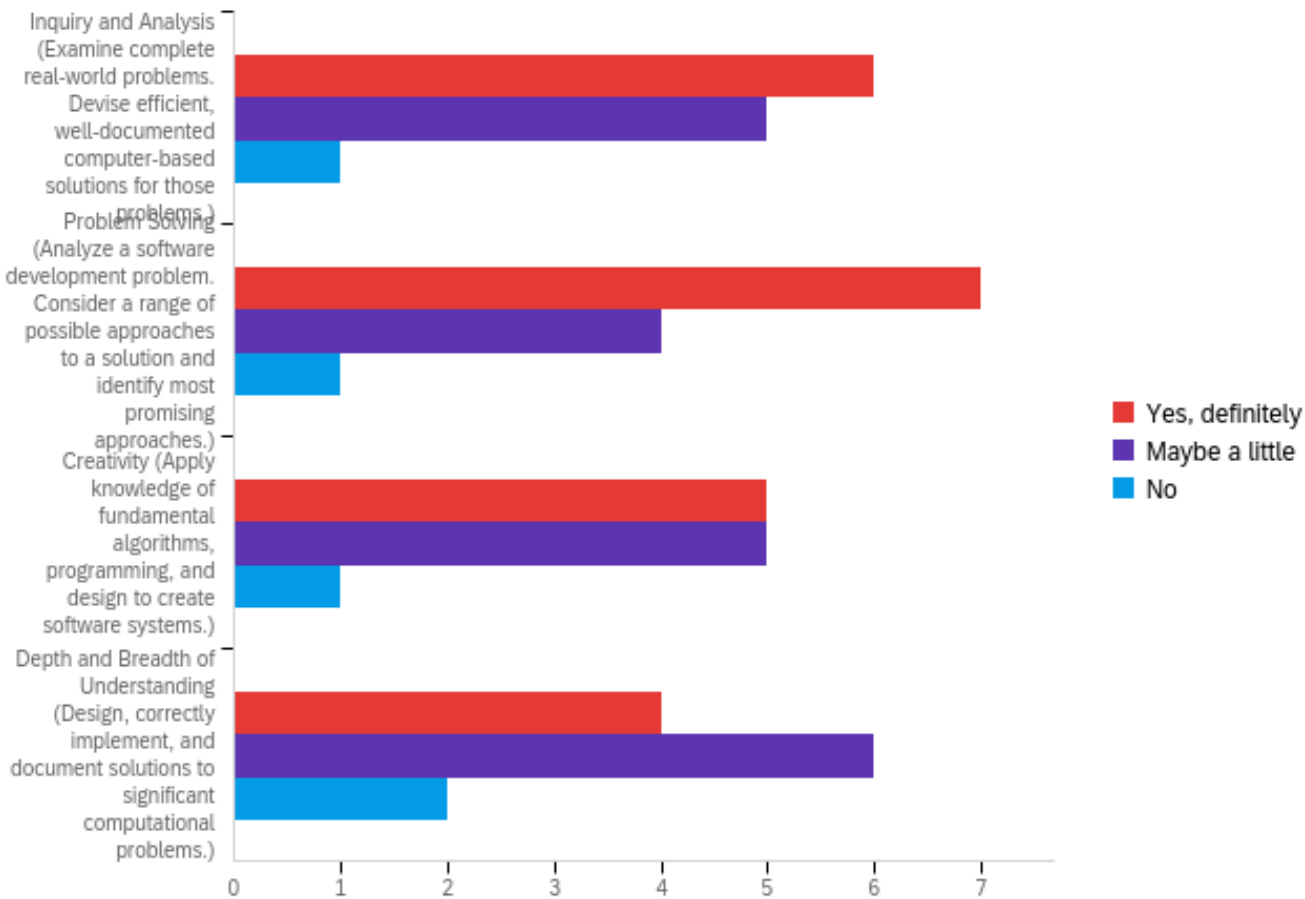
| # | Answer | % | Count |
|----|---|--------|-------|
| 9 | Extremely effective | 16.67% | 1 |
| 10 | Very effective | 33.33% | 2 |
| 11 | Moderately effective | 0.00% | 0 |
| 12 | Slightly effective | 16.67% | 1 |
| 13 | Not effective at all | 16.67% | 1 |
| 14 | N/A (I didn't take CIS courses during the pandemic) | 16.67% | 1 |
| | Total | 100% | 6 |

Q54 - What, if any, impact do you feel the pivot to remote learning had on your expected program completion time?



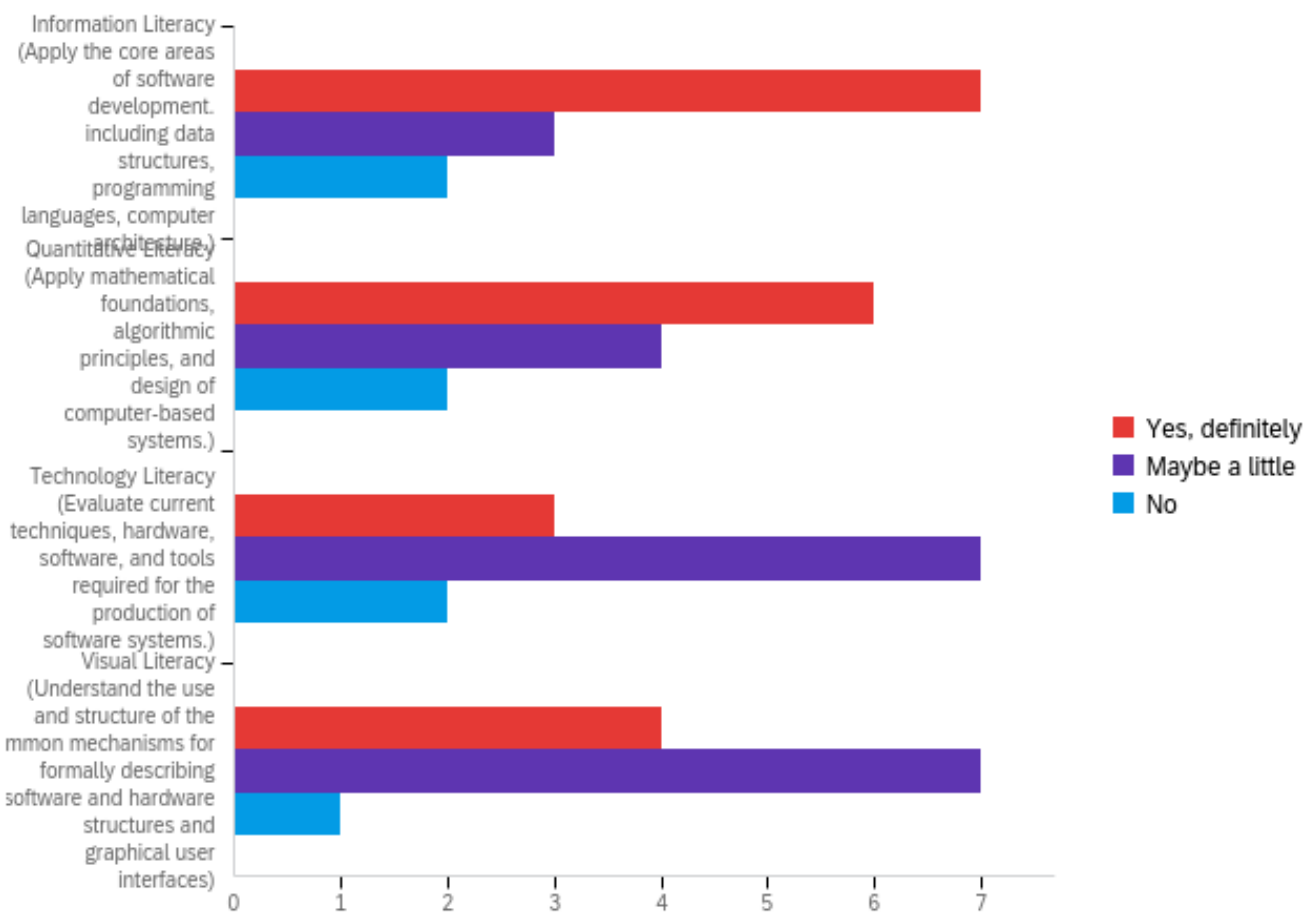
| # | Answer | % | Count |
|---|--|--------|-------|
| 1 | I completed my program on time (in the term expected) | 33.33% | 2 |
| 2 | I completed my program faster (1+ terms earlier) than expected | 33.33% | 2 |
| 3 | I completed my program slower (1+ terms later) than expected | 33.33% | 2 |
| | Total | 100% | 6 |

Q45 - Program Learning Outcomes: Critical and Creative Thinking Based on your program experiences, to what extent did the BComp General program help you develop the following knowledge, skills, or abilities:



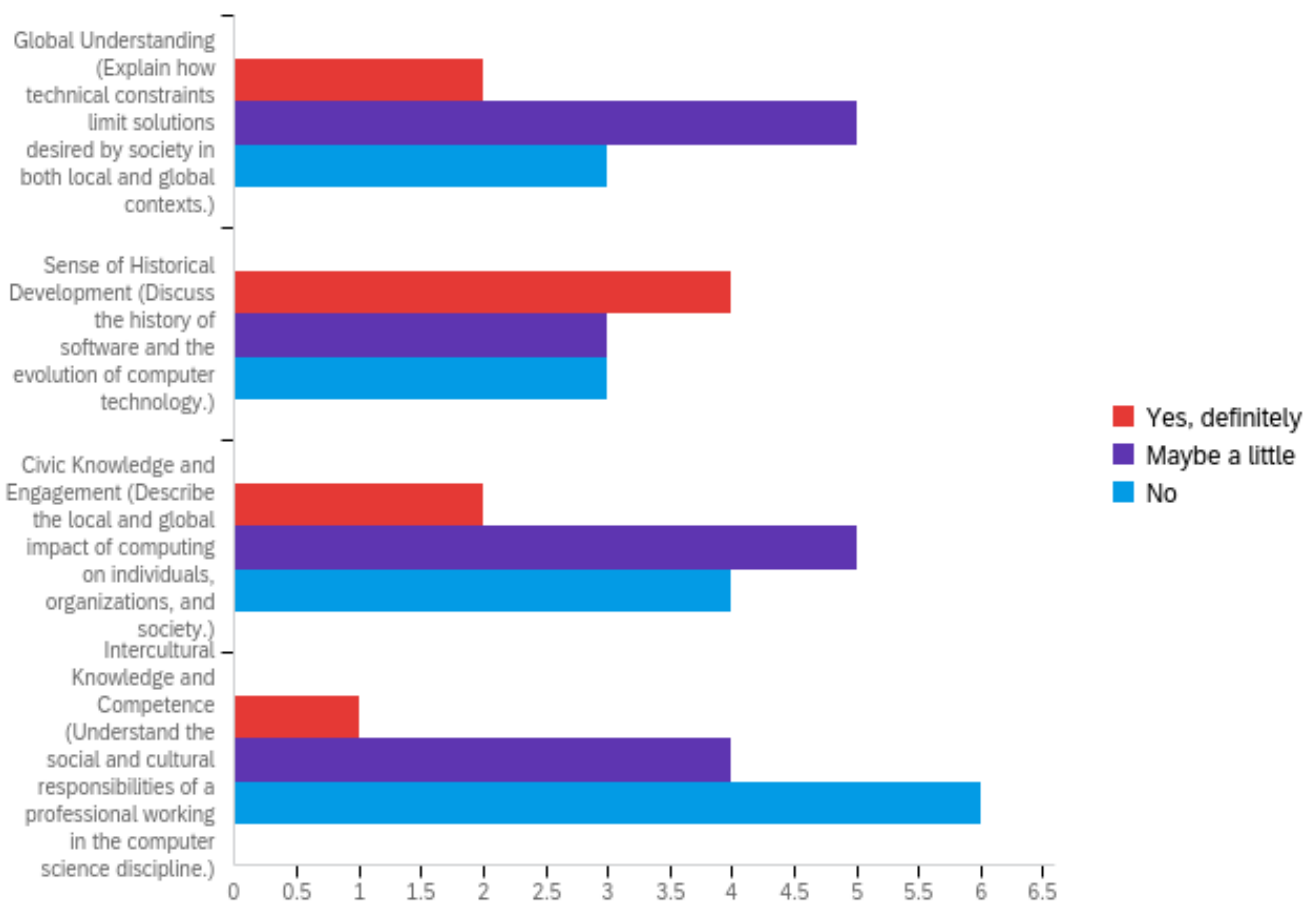
| # | Question | Yes, definitely | Maybe a little | No | Total |
|---|---|-----------------|----------------|---------|-------|
| 1 | Inquiry and Analysis (Examine complete real--world problems. Devise efficient, well-documented computer-based solutions for those problems.) | 50.00%6 | 41.67%5 | 8.33%1 | 12 |
| 2 | Problem Solving (Analyze a software development problem. Consider a range of possible approaches to a solution and identify most promising approaches.) | 58.33%7 | 33.33%4 | 8.33%1 | 12 |
| 3 | Creativity (Apply knowledge of fundamental algorithms, programming, and design to create software systems.) | 45.45%5 | 45.45%5 | 9.09%1 | 11 |
| 4 | Depth and Breadth of Understanding (Design, correctly implement, and document solutions to significant computational problems.) | 33.33%4 | 50.00%6 | 16.67%2 | 12 |

Q46 - Program Learning Outcomes: Literacy Based on your program experiences, do you feel you developed the following literacy knowledge, skills, or abilities during your BComp General program?



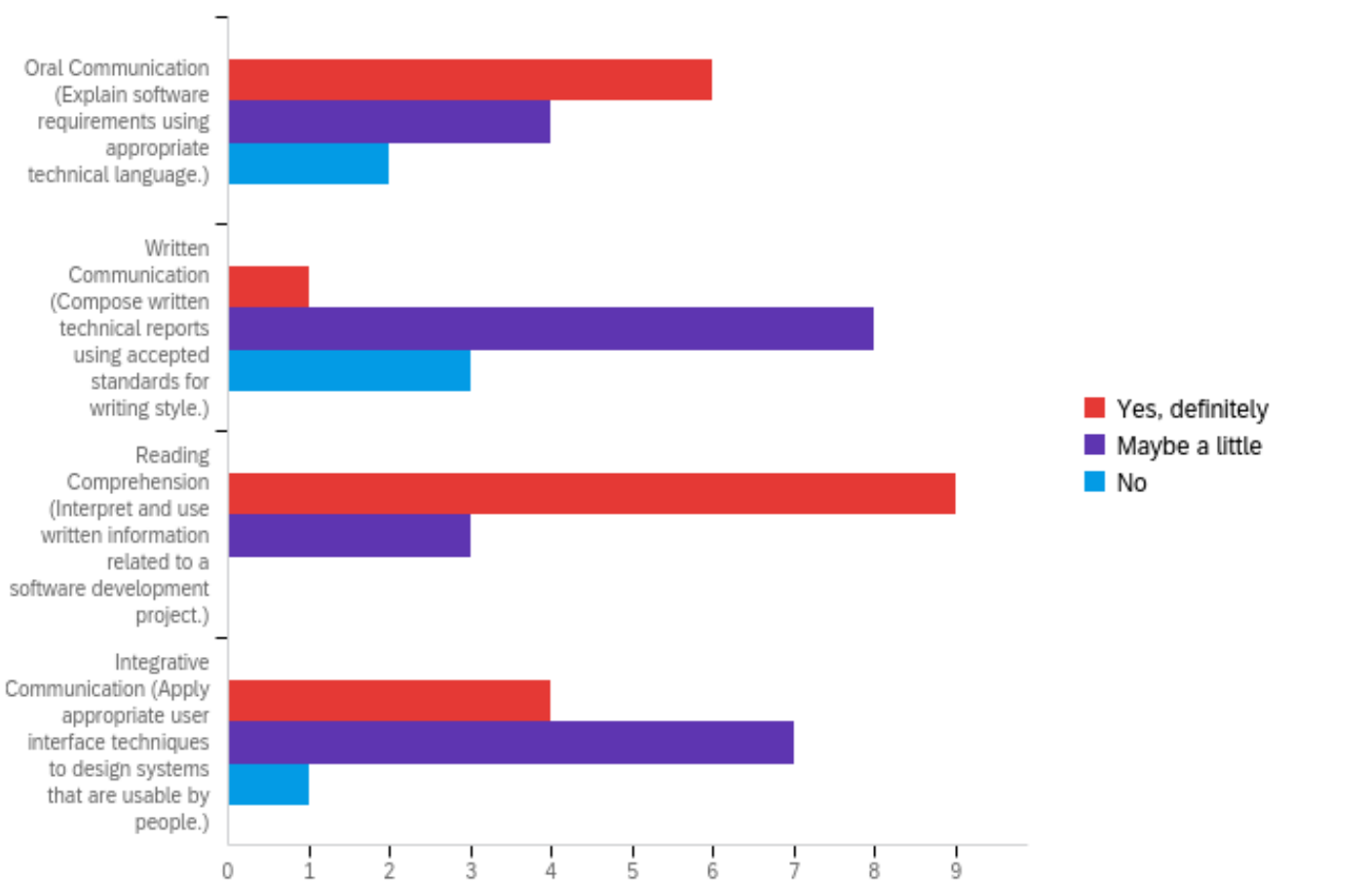
| # | Question | Yes, definitely | Maybe a little | No | Total |
|---|--|-----------------|----------------|----------|-------|
| 1 | Information Literacy (Apply the core areas of software development. including data structures, programming languages, computer architecture.) | 58.33% 7 | 25.00% 3 | 16.67% 2 | 12 |
| 2 | Quantitative Literacy (Apply mathematical foundations, algorithmic principles, and design of computer-based systems.) | 50.00% 6 | 33.33% 4 | 16.67% 2 | 12 |
| 3 | Technology Literacy (Evaluate current techniques, hardware, software, and tools required for the production of software systems.) | 25.00% 3 | 58.33% 7 | 16.67% 2 | 12 |
| 4 | Visual Literacy (Understand the use and structure of the common mechanisms for formally describing software and hardware structures and graphical user interfaces) | 33.33% 4 | 58.33% 7 | 8.33% 1 | 12 |

Q47 - Program Learning Outcomes: Global Understanding Based on your program experiences, do you feel you developed the following global understanding knowledge, skills, or abilities during your BComp General program?



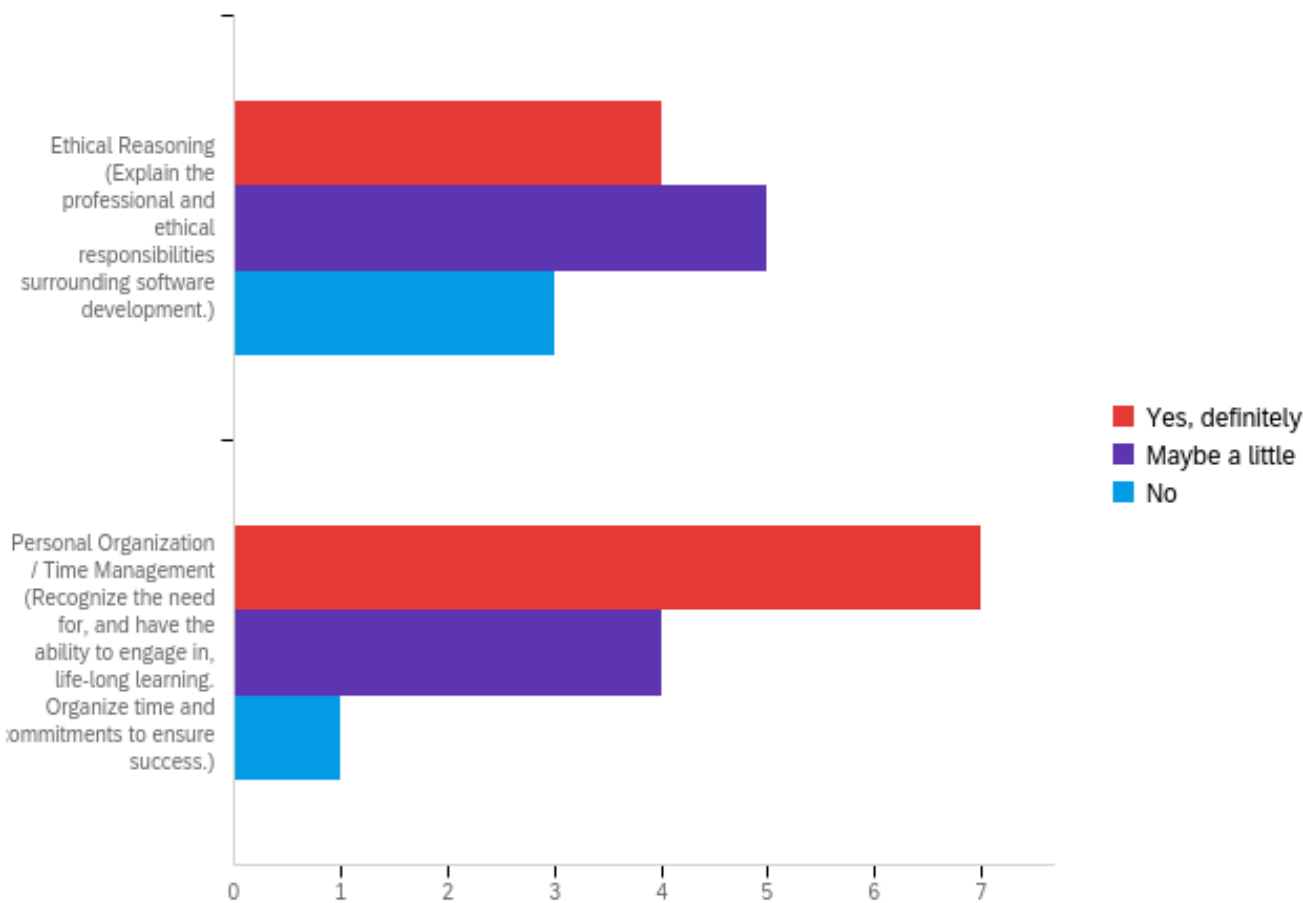
| # | Question | Yes, definitely | | Maybe a little | | No | | Total |
|---|--|-----------------|---|----------------|---|--------|---|-------|
| 1 | Global Understanding (Explain how technical constraints limit solutions desired by society in both local and global contexts.) | 20.00% | 2 | 50.00% | 5 | 30.00% | 3 | 10 |
| 2 | Sense of Historical Development (Discuss the history of software and the evolution of computer technology.) | 40.00% | 4 | 30.00% | 3 | 30.00% | 3 | 10 |
| 3 | Civic Knowledge and Engagement (Describe the local and global impact of computing on individuals, organizations, and society.) | 18.18% | 2 | 45.45% | 5 | 36.36% | 4 | 11 |
| 4 | Intercultural Knowledge and Competence (Understand the social and cultural responsibilities of a professional working in the computer science discipline.) | 9.09% | 1 | 36.36% | 4 | 54.55% | 6 | 11 |

Q48 - Program Learning Outcomes: Communication Based on your program experiences, do you feel you developed the following communication knowledge, skills, or abilities during your BComp General program?



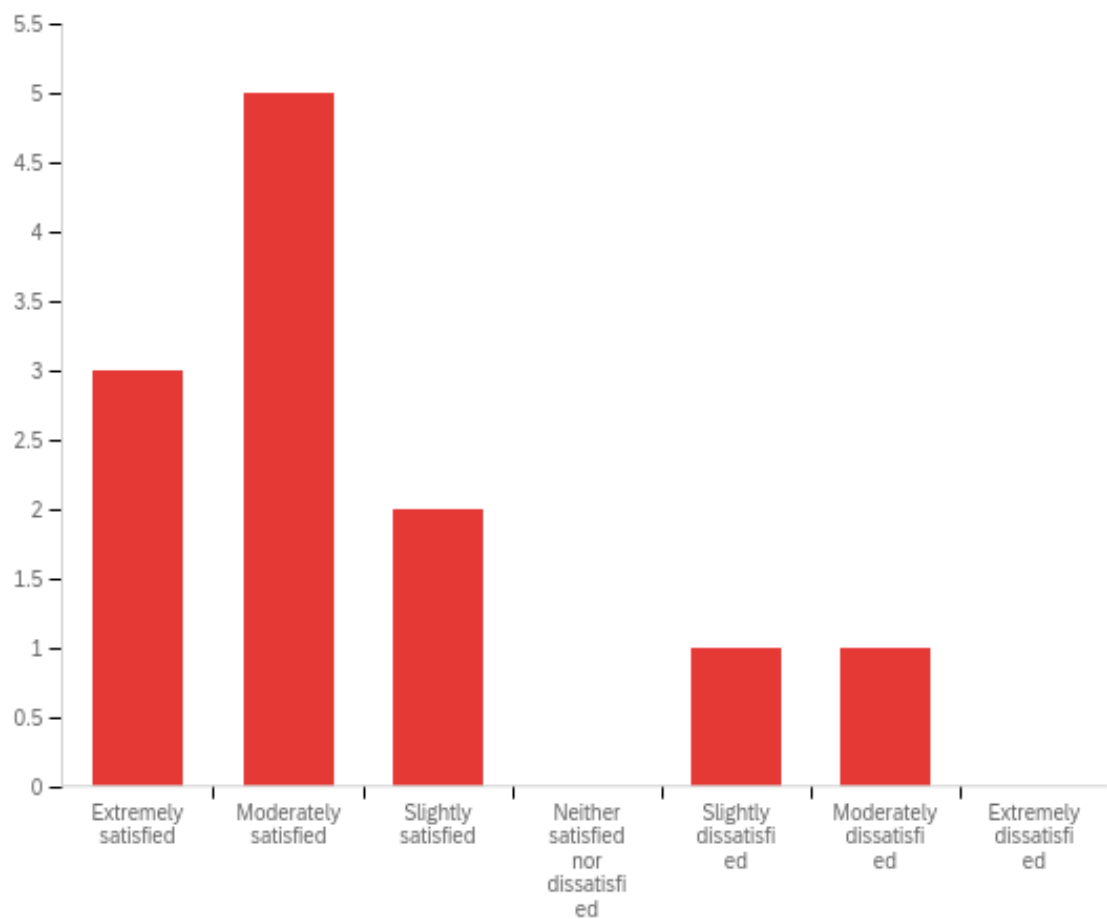
| # | Question | Yes, definitely | Maybe a little | No | Total |
|---|--|-----------------|----------------|----------|-------|
| 1 | Oral Communication (Explain software requirements using appropriate technical language.) | 50.00% 6 | 33.33% 4 | 16.67% 2 | 12 |
| 2 | Written Communication (Compose written technical reports using accepted standards for writing style.) | 8.33% 1 | 66.67% 8 | 25.00% 3 | 12 |
| 3 | Reading Comprehension (Interpret and use written information related to a software development project.) | 75.00% 9 | 25.00% 3 | 0.00% 0 | 12 |
| 4 | Integrative Communication (Apply appropriate user interface techniques to design systems that are usable by people.) | 33.33% 4 | 58.33% 7 | 8.33% 1 | 12 |

Q49 - Program Learning Outcomes: Professional and Ethical Behaviour Based on your program experiences, do you feel you developed the following professional and ethical behaviour knowledge, skills, or abilities during your BComp General program?



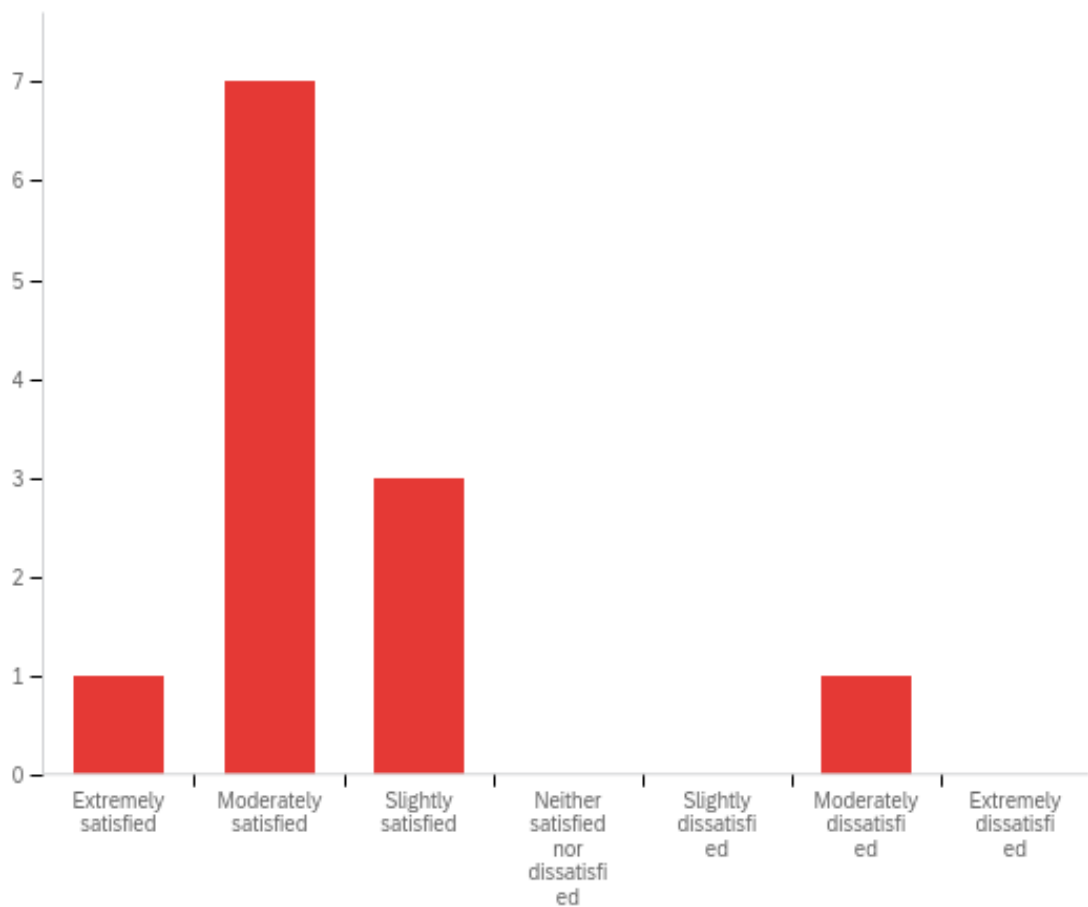
| # | Question | Yes, definitely | Maybe a little | No | Total |
|---|---|-----------------|----------------|--------|-------|
| 1 | Ethical Reasoning (Explain the professional and ethical responsibilities surrounding software development.) | 33.33% | 41.67% | 25.00% | 12 |
| 2 | Personal Organization / Time Management (Recognize the need for, and have the ability to engage in, life-long learning. Organize time and commitments to ensure success.) | 58.33% | 33.33% | 8.33% | 12 |

Q8 - What best describes your overall experience in your BComp degree program during your undergraduate studies at the University of Guelph?



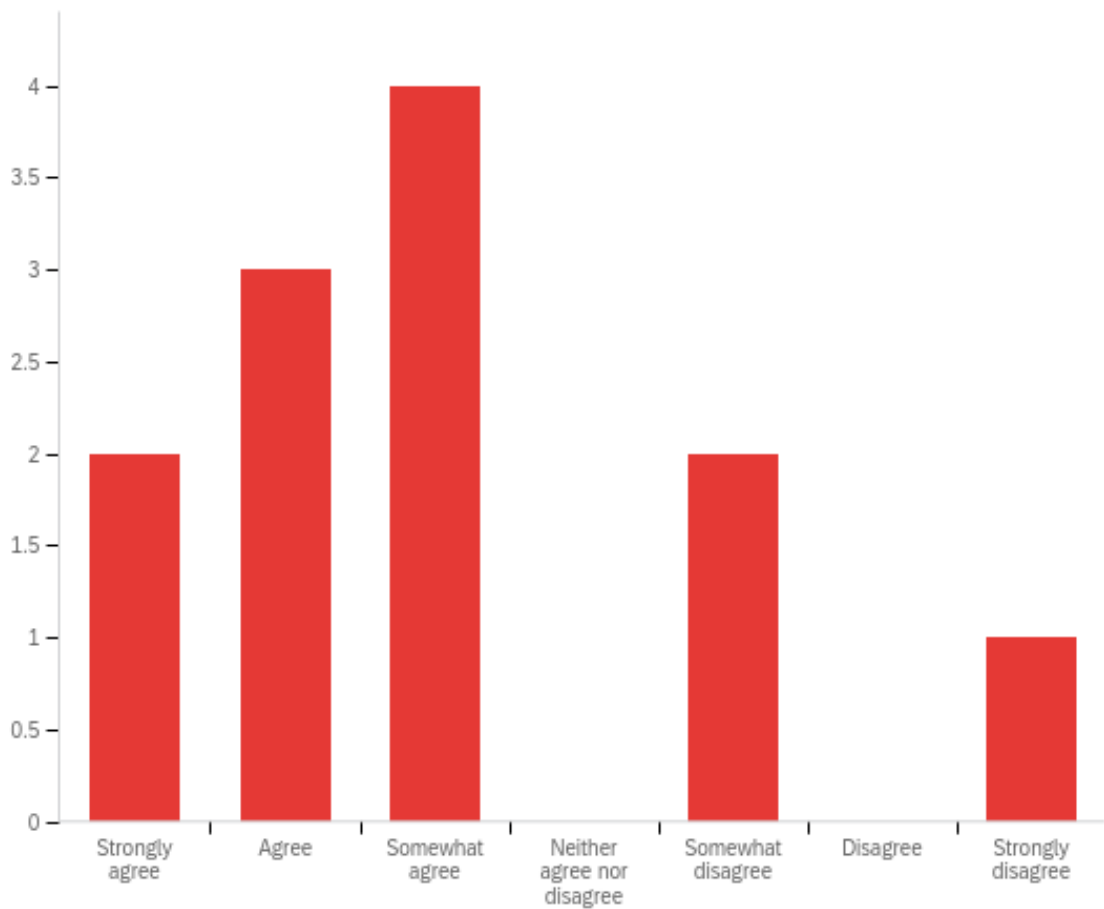
| # | Answer | % | Count |
|----|------------------------------------|--------|-------|
| 46 | Extremely satisfied | 25.00% | 3 |
| 47 | Moderately satisfied | 41.67% | 5 |
| 48 | Slightly satisfied | 16.67% | 2 |
| 49 | Neither satisfied nor dissatisfied | 0.00% | 0 |
| 50 | Slightly dissatisfied | 8.33% | 1 |
| 51 | Moderately dissatisfied | 8.33% | 1 |
| 52 | Extremely dissatisfied | 0.00% | 0 |
| | Total | 100% | 12 |

Q9 - What best describes your level of satisfaction with the overall quality of teaching in CIS courses during your undergraduate studies at the University of Guelph?



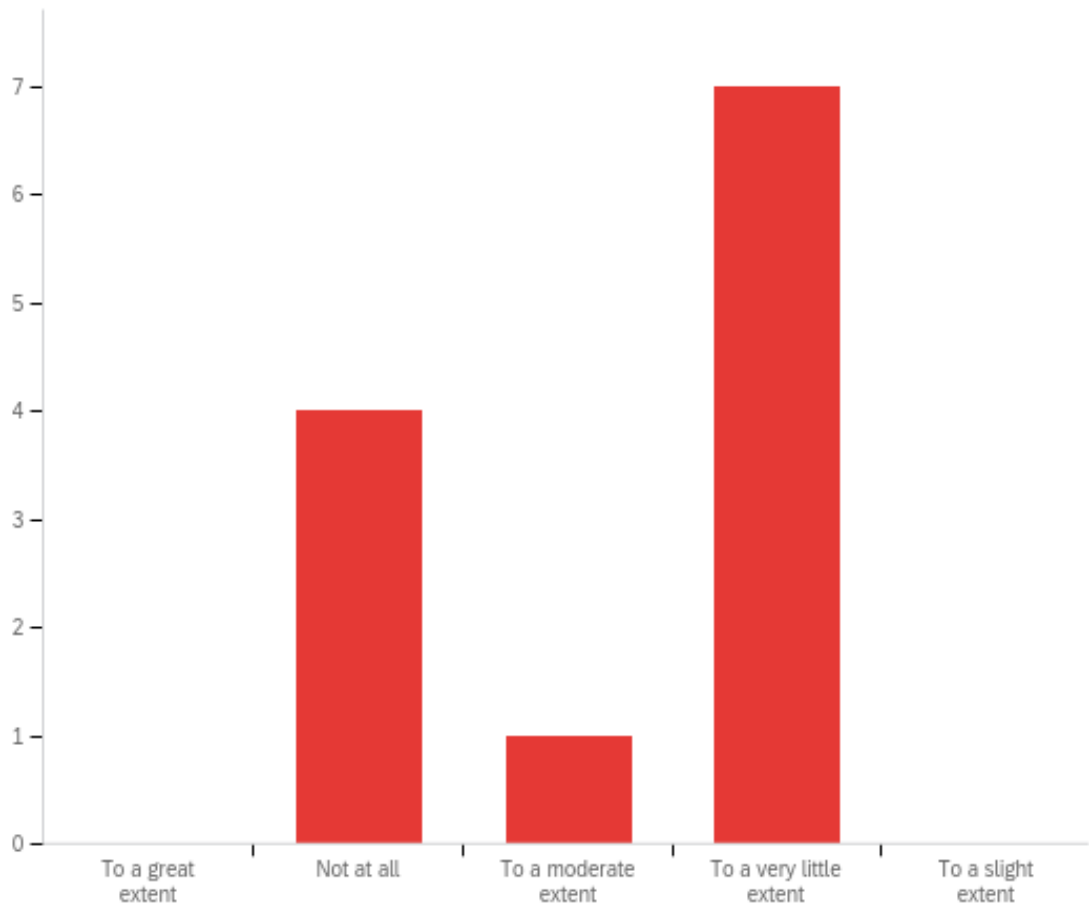
| # | Answer | % | Count |
|----|------------------------------------|--------|-------|
| 59 | Extremely satisfied | 8.33% | 1 |
| 60 | Moderately satisfied | 58.33% | 7 |
| 61 | Slightly satisfied | 25.00% | 3 |
| 62 | Neither satisfied nor dissatisfied | 0.00% | 0 |
| 63 | Slightly dissatisfied | 0.00% | 0 |
| 64 | Moderately dissatisfied | 8.33% | 1 |
| 65 | Extremely dissatisfied | 0.00% | 0 |
| | Total | 100% | 12 |

**Q13 - Please indicate the extent to which you agree or disagree with the statement:
"What I learned in my Bachelor of Computing degree program prepared me for my
professional or academic career post-graduation."**



| # | Answer | % | Count |
|----|----------------------------|--------|-------|
| 25 | Strongly agree | 16.67% | 2 |
| 26 | Agree | 25.00% | 3 |
| 27 | Somewhat agree | 33.33% | 4 |
| 28 | Neither agree nor disagree | 0.00% | 0 |
| 29 | Somewhat disagree | 16.67% | 2 |
| 30 | Disagree | 0.00% | 0 |
| 31 | Strongly disagree | 8.33% | 1 |
| | Total | 100% | 12 |

Q10 - To what extent did library resources and services support your progress through your BComp degree program?



| # | Answer | % | Count |
|----|-------------------------|--------|-------|
| 19 | To a great extent | 0.00% | 0 |
| 20 | Not at all | 33.33% | 4 |
| 21 | To a moderate extent | 8.33% | 1 |
| 22 | To a very little extent | 58.33% | 7 |
| 23 | To a slight extent | 0.00% | 0 |
| | Total | 100% | 12 |