## Applied Computing – Business Program Description

*Note: This program description is temporary until the official University of Saskatchewan Course and Program Catalogue is published for the 2022-2023 academic year (Winter 2022).* ***Program requirements are subject to change up to that point.***

| | **Bachelor of Science Four-year (B.Sc. Four-year) – Applied Computing - Business**<br><br>No more than 6 credit units from one subject may be used in Requirements C1, C2, and the Junior Course Requirements in C3. | **Bachelor of Science Honours (B.Sc. Honours) – Business**<br><br>Students interested in entering an Honours program should consult advisors in the department concerned before registering for their second year. Of the 120 credit units required for the B.Sc. Honours degree, at least 66 credit units must be at the senior level. Application for admission to Honours is not considered until successful completion of at least 60 credit units with a Cumulative Weighted Average of at least 70% overall and at least 70% in the subject of Honours. For further details, please see the Academic Information and Policies section.<br><br>No more than 6 credit units from one subject may be used in Requirements C1, C2, and the Junior Course Requirements in C3. |
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| **C1 College Require-ment (15 credit units)** | **English Language Writing**<br>Choose **6 credit units** from the following:<br>• *Full list* | **Indigenous Learning**<br>Choose **3 credit units** from the following:<br>• *Full list*<br><br>**Quantitative Reasoning**<br><br>• MATH 163.3 Introduction to Mathematical Reasoning<br>• MATH 164.3 Introduction to Linear Algebra |
| **C2 Breadth Require-ment (6 credit units)** | Choose **6 credit units** from the following areas:<br><br>Fine Arts<br>Humanities<br>Social Sciences<br>Courses with No Program Type | |
| **C3 Cognate Require-ment (12 credit units)** | **(12 credit units)**<br>**Junior course requirements:**<br>Choose **9 credit units** from the following:<br>*Biology*<br>• BIOL 120.3<br>• BIOL 121.3<br>*Chemistry*<br>• CHEM 112.3<br>• CHEM 115.3<br>• CHEM 250.3 | |

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| | *Earth Science*<br>• GEOG 120.3<br>• GEOL 121.3<br>• GEOL 122.3<br>*Physics & Astronomy*<br>• ASTR 113.3<br>• PHYS 115.3<br>• PHYS 117.3 or PHYS 125.3<br><br>**Senior course requirements:**<br><br>• PHIL 232.3 Ethics and Professional Responsibility in Computer Science | |
| **C4 Major Require-ment** | **(66 credit units)**<br><br>• CMPT 141.3 Introduction to Computer Science<br>• CMPT 145.3 Principles of Computer Science<br>• CMPT 260.3 Mathematical Logic and Computing<br>• CMPT 270.3 Developing Object Oriented Systems<br>• CMPT 280.3 Intermediate Data Structures and Algorithms<br>• CMPT 370.3 Intermediate Software Engineering<br>• CMPT 371.3 Software Management<br>• COMM 100.3 Business Communication I<br>• COMM 101.3 Introduction to Business<br>• COMM 105.3 Introduction to Organizational Behavior<br>• COMM 201.3 Introduction to Financial Accounting<br>• COMM 204.3 Introduction to Marketing<br>• COMM 306.3 Ethics and Decision Making<br>• STAT 245.3 Introduction to Statistical Methods<br><br>Choose **15 credit units** from the following, from any of the three areas:<br><br>Software Engineering:<br><br>• CMPT 214.3 Programming Principles and Practice<br>• CMPT 340.3 Programming Language Paradigms<br>• CMPT 353.3 Full Stack Web Programming | **(69 credit units)**<br><br>• CMPT 141.3 Introduction to Computer Science<br>• CMPT 145.3 Principles of Computer Science<br>• CMPT 260.3 Mathematical Logic and Computing<br>• CMPT 270.3 Developing Object Oriented Systems<br>• CMPT 280.3 Intermediate Data Structures and Algorithms<br>• CMPT 370.3 Intermediate Software Engineering<br>• CMPT 371.3 Software Management<br>• CMPT 407.3 Research Topics in Applied Computing<br>• COMM 100.3 Business Communication I<br>• COMM 101.3 Introduction to Business<br>• COMM 105.3 Introduction to Organizational Behavior<br>• COMM 201.3 Introduction to Financial Accounting<br>• COMM 204.3 Introduction to Marketing<br>• COMM 306.3 Ethics and Decision Making<br>• STAT 245.3 Introduction to Statistical Methods<br><br>Choose **15 credit units** from the following, from any of the three areas, including at least 3 credit units at the 400-level:<br><br>Software Engineering:<br><br>• CMPT 214.3 Programming Principles and Practice<br>• CMPT 340.3 Programming Language Paradigms |

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| | • CMPT 436.3 Mobile and Cloud Computing<br>• CMPT 470.3 Advanced Software Engineering<br><br>Analytics:<br><br>• CMPT 317.3 Introduction to Artificial Intelligence<br>• CMPT 318.3 Data Analytics<br>• CMPT 384.3 Information Visualization<br>• CMPT 423.3 Machine Learning<br>• CMPT 489.3 Deep Learning and Applications<br><br>User and Web:<br><br>• CMPT 281.3 Website Design and Development<br>• CMPT 353.3 Full Stack Web Programming<br>• CMPT 381.3 Implementation of Graphical User Interfaces<br>• CMPT 412.3 Social Computing and Participative Web<br>• CMPT 481.3 Human Computer Interaction<br><br>Choose **9 credit units** from the following:<br><br>• COMM 203.3 Introduction to Finance<br>• COMM 205.3 Introduction to Operations Management<br>• COMM 348.3 Leadership<br>• COMM 349.3 Introduction to Entrepreneurship<br>• COMM 352.3 Marketing Strategy<br>• COMM 354.3 Consumer Behavior<br>• COMM 357.3 Marketing Research | • CMPT 353.3 Full Stack Web Programming<br>• CMPT 436.3 Mobile and Cloud Computing<br>• CMPT 470.3 Advanced Software Engineering<br><br>Analytics:<br><br>• CMPT 317.3 Introduction to Artificial Intelligence<br>• CMPT 318.3 Data Analytics<br>• CMPT 384.3 Information Visualization<br>• CMPT 423.3 Machine Learning<br>• CMPT 489.3 Deep Learning and Applications<br><br>User and Web:<br><br>• CMPT 281.3 Website Design and Development<br>• CMPT 353.3 Full Stack Web Programming<br>• CMPT 381.3 Implementation of Graphical User Interfaces<br>• CMPT 412.3 Social Computing and Participative Web<br>• CMPT 481.3 Human Computer Interaction<br><br>Choose **9 credit units** from the following:<br><br>• COMM 203.3 Introduction to Finance<br>• COMM 205.3 Introduction to Operations Management<br>• COMM 348.3 Leadership<br>• COMM 349.3 Introduction to Entrepreneurship<br>• COMM 352.3 Marketing Strategy<br>• COMM 354.3 Consumer Behavior<br>• COMM 357.3 Marketing Research |
| **C5 Electives Require-ment** | **(21 credit units)**<br><br>Arts and Science courses, or those from other Colleges that have been approved for Arts and Science credit, to complete the requirements for 120 credit unit Four-year program, of which at least 66 must be at the 200-level or higher. | **(18 credit units)**<br><br>Arts and Science courses, or those from other Colleges that have been approved for Arts and Science credit, to complete the requirements for 120 credit unit Honours program, of which at least 66 must be at the 200-level or higher. |