

**Faculty of Science  
Course and Program Changes  
For Implementation in 2007-2008**

<p><b>183.1.5 BSc General—Minor in Business</b></p> <p>BSc General program students admitted to the Minor in Business quota must complete the following:</p> <p>(1) ECON 101, 102  (2) *18 to *30 in courses offered by the Faculty of Business including ACCTG 311; <b>ORG-A</b> 301; two of FIN 301, MARK 301, MGTSC 352, <b>ORG-A</b> 321</p>	<p><b>183.1.5 BSc General—Minor in Business</b></p> <p>BSc General program students admitted to the Minor in Business quota must complete the following:</p> <p>(1) ECON 101, 102  (2) *18 to *30 in courses offered by the Faculty of Business including ACCTG 311; <b>SMO</b> 301; two of FIN 301, MARK 301, MGTSC 352, <b>SMO</b> 321</p>
<p><b>183.6.3 Specialization in Computing Science—Minor in Business</b></p> <p>...</p> <p>The Business minor in Computing Science consists of the following:</p> <p>(1) ECON 101, 102  (2) ACCTG 311  (3) <b>ORG-A</b> 301  (4) Two of FIN 301, MARK 301, MGTSC 352, and <b>ORG-A</b> 321  (5) A minimum of *6 in courses offered by the Faculty of Business and approved by the student's advisor</p>	<p><b>183.6.3 Specialization in Computing Science—Minor in Business</b></p> <p>...</p> <p>The Business minor in Computing Science consists of the following:</p> <p>(1) ECON 101, 102  (2) ACCTG 311  (3) <b>SMO</b> 301  (4) Two of FIN 301, MARK 301, MGTSC 352, and <b>SMO</b> 321  (5) A minimum of *6 in courses offered by the Faculty of Business and approved by the student's advisor</p>
<p><b>183.6.2 Specialization in Computing Science</b></p> <hr/> <p><b>Year 1</b></p> <p>CMPUT <b>144, 115</b>, 272 (see Note 1)  MATH 114, 115  ★6 junior English  ★6 in Science options (excluding MATH/STAT/CMPUT)  ★3 in an approved option (see Note 6)</p> <hr/> <p><b>Year 2</b></p> <p>CMPUT 201, 204, 229, 291  MATH 120 (MATH 125 recommended)  STAT 221, 222  ★6 in Arts options  ★3 in an approved option (see Note 6)</p> <hr/> <p><b>Year 3</b></p> <p>CMPUT 301, 325, 379  ★6 in CMPUT at the 300-level or higher (see Notes 3 and 4)  ★3 in a MATH or STAT option at the 200-level or higher (see Note 5)  ★3 in an Arts option  ★9 in approved options (see Note 6)</p> <hr/> <p><b>Year 4</b></p> <p>★9 in CMPUT at the 300-level or higher (see Notes 3 and 4)  ★15 in approved options (see Note 6)  ★3 in a Science option</p>	<p><b>183.6.2 Specialization in Computing Science</b></p> <hr/> <p><b>Year 1</b></p> <p>CMPUT <b>(114 and 115) or (174 and 175)</b>; 272 (see Note 1)  MATH 114, 115  ★6 junior English  ★6 in Science options (excluding MATH/STAT/CMPUT)  ★3 in an approved option (see Note 6)</p> <hr/> <p><b>Year 2</b></p> <p>CMPUT 201, 204, 229, 291  MATH 120 (MATH 125 recommended)  STAT 221, 222  ★6 in Arts options  ★3 in an approved option (see Note 6)</p> <hr/> <p><b>Year 3</b></p> <p>CMPUT 301, 325, 379  ★6 in CMPUT at the 300-level or higher (see Notes 3 and 4)  ★3 in a MATH or STAT option at the 200-level or higher (see Note 5)  ★3 in an Arts option  ★9 in approved options (see Note 6)</p> <hr/> <p><b>Year 4</b></p> <p>★9 in CMPUT at the 300-level or higher (see Notes 3 and 4)  ★15 in approved options (see Note 6)</p>

<p>★3 in an Arts option</p> <p><b>Notes</b></p> <p>(1) <del>Students with no previous computing science experience should enrol in CMPUT 101, followed by CMPUT 114 and 115. Students are strongly encouraged to take CMPUT 272 in Year 1.</del></p> <p>(2) At least ★9 in approved options must be at the 300-level or higher.</p> <p>(3) Specialization students must take ★3 in Group A courses which include CMPUT 304, 340 and 474. A complete list of Group A courses to be offered in a given year is available from the department.</p> <p>(4) Specialization students must take ★3 in Group B project courses which include CMPUT 400, 401, 410, 412, 414, 415, 422, and 466. The department may approve variations in the above requirement on application. CMPUT 400 satisfies the project requirement, but cannot be used as ★3 in CMPUT at the 300-level or higher or as a Science option.</p> <p>(5) Some higher level CMPUT courses may require specific MATH courses as prerequisites. These prerequisites should be taken for the MATH or STAT option.</p> <p>(6) ★6 of the total ★30 in approved options cannot be MATH/STAT/CMPUT.</p>	<p>★3 in a Science option ★3 in an Arts option</p> <p><b>Notes</b></p> <p>(1) There are many routes to the study of Computing Science. Students should seek advice from a department advisor or visit our website at <a href="http://www.cs.ualberta.ca/courses">www.cs.ualberta.ca/courses</a>. CMPUT 272 can be taken in second year. Please consult department for advice.</p> <p>(2) At least ★9 in approved options must be at the 300-level or higher.</p> <p>(3) Specialization students must take ★3 in Group A courses which include CMPUT 304, 340 and 474. A complete list of Group A courses to be offered in a given year is available from the department.</p> <p>(4) Specialization students must take ★3 in Group B project courses which include CMPUT 400, 401, 410, 412, 414, 415, 422, and 466. The department may approve variations in the above requirement on application. CMPUT 400 satisfies the project requirement, but cannot be used as ★3 in CMPUT at the 300-level or higher or as a Science option.</p> <p>(5) Some higher level CMPUT courses may require specific MATH courses as prerequisites. These prerequisites should be taken for the MATH or STAT option.</p> <p>(6) ★6 of the total ★30 in approved options cannot be MATH/STAT/CMPUT.</p>
<p><b>183.6.8 BSc General—Computing Science</b></p> <p><b>Minor</b></p> <p>The Computing Science minor requires the following courses: CMPUT 114, 115, 201, 204, 229, 272, 291, 379; MATH 114, 115, 120; STAT 265; one of CMPUT 306, 313, 325, 340 or 366. Further credits at the 300- and 400-level are typically not permitted.</p> <p><b>Note:</b> <del>Students with no previous computing experience should enrol in CMPUT 101 first and then take CMPUT 114 and 115.</del></p>	<p><b>183.6.8 BSc General—Computing Science</b></p> <p><b>Minor</b></p> <p>The Computing Science minor requires completion of a minimum *24 to a maximum *36, with *6 at the 300 level or higher, chosen from the following courses: CMPUT 101, (114 and 115) or (174 and 175), 201, 204, 229, 272, 291, 379; MATH 114, 115, 120; STAT 265; 306, 313, 325, 340, or 366, and 379. Further credits in CMPUT at the 300- and 400-level are typically not permitted. BIOIN 301 and 401 also can be used to complete this minor.</p> <p><b>Note:</b> There are many routes to the study of Computing Science. Students should seek advice from a department advisor or visit our website at <a href="http://www.cs.ualberta.ca/courses">www.cs.ualberta.ca/courses</a>. Students will also need to complete prerequisite courses in MATH and STAT according to the CMPUT courses chosen, and BIOL and GENET, if BIOIN courses are chosen.</p>
<p><b>184 Details of Courses</b> <b>184.1 Course Listings</b></p>	<p><b>184 Details of Courses</b> <b>184.1 Course Listings</b></p>
<p>Science courses can be found in §221, Course Listings, under the following subject</p>	<p>Science courses can be found in §221, Course Listings, under the following subject</p>

<p>headings:</p> <p>Astronomy (ASTRO)</p> <p>Biochemistry (taught by the Faculty of Medicine and Dentistry) (BIOCH)</p> <p>Biochimie (BIOCM) (Faculté Saint-Jean)</p> <p>Biological Science - Biology (BIOL)</p> <p>Biological Science - Botany (BOT)</p> <p>Biological Science - Entomology (ENT)</p> <p>Biological Science - Genetics (GENET)</p> <p>Biological Science - Microbiology (MICRB)</p> <p>Biological Science - Zoology (ZOO)</p> <p>Biologie (BIOLE) (Faculté Saint-Jean)</p> <p>Cell Biology (CELL)</p> <p>Chemistry (CHEM)</p> <p>Chimie (CHIM) (Faculté Saint-Jean)</p> <p>Computing Science (CMPUT)</p> <p>Earth and Atmospheric Sciences (formerly Geography and Geology (EAS))</p> <p>Environmental Physical Sciences (ENVPS)</p> <p>Geophysics (GEOPH)</p> <p>Interdisciplinary Studies (INT D)</p> <p>Laboratory Animal Management (LB AN)</p> <p>Marine Science (MA SC)</p> <p>Mathematical Physics (MA PH)</p> <p>Mathematics (MATH)</p> <p>Mathématiques (MATHQ) (Faculté Saint-Jean)</p> <p>Paleontology (PALEO)</p> <p>Pharmacology (taught by the Faculty of Medicine and Dentistry) (PMCOL)</p> <p>Physiology (taught by the Faculty of Medicine and Dentistry) (PHYSL)</p> <p>Physics (PHYS)</p> <p>Physique (PHYSQ) (Faculté Saint-Jean)</p> <p>Psychology (PSYCO)</p> <p>Science (SCI)</p> <p>Sciences de la Terre et de l'atmosphère (SCTA) (Faculté Saint-Jean)</p> <p>Statistics and Applied Probability (STAT)</p> <p>Statistique (STATQ) (Faculté Saint-Jean)</p>	<p>headings:</p> <p>Astronomy (ASTRO)</p> <p>Biochemistry (taught by the Faculty of Medicine and Dentistry) (BIOCH)</p> <p>Biochimie (BIOCM) (Faculté Saint-Jean)</p> <p>Biological Science - Biology (BIOL)</p> <p>Biological Science - Botany (BOT)</p> <p>Biological Science - Entomology (ENT)</p> <p>Biological Science - Genetics (GENET)</p> <p>Biological Science - Microbiology (MICRB)</p> <p>Biological Science - Zoology (ZOO)</p> <p>Biologie (BIOLE) (Faculté Saint-Jean)</p> <p>Cell Biology (CELL)</p> <p>Chemistry (CHEM)</p> <p>Chimie (CHIM) (Faculté Saint-Jean)</p> <p>Computing Science (CMPUT)</p> <p>Earth and Atmospheric Sciences (formerly Geography and Geology (EAS))</p> <p>Environmental Physical Sciences (ENVPS)</p> <p>Geophysics (GEOPH)</p> <p><b>Immunology and Infection (IMIN)</b></p> <p>Interdisciplinary Studies (INT D)</p> <p>Laboratory Animal Management (LB AN)</p> <p>Marine Science (MA SC)</p> <p>Mathematical Physics (MA PH)</p> <p>Mathematics (MATH)</p> <p>Mathématiques (MATHQ) (Faculté Saint-Jean)</p> <p>Paleontology (PALEO)</p> <p>Pharmacology (taught by the Faculty of Medicine and Dentistry) (PMCOL)</p> <p>Physiology (taught by the Faculty of Medicine and Dentistry) (PHYSL)</p> <p>Physics (PHYS)</p> <p>Physique (PHYSQ) (Faculté Saint-Jean)</p> <p>Psychology (PSYCO)</p> <p>Science (SCI)</p> <p>Sciences de la Terre et de l'atmosphère (SCTA) (Faculté Saint-Jean)</p> <p>Statistics and Applied Probability (STAT)</p> <p>Statistique (STATQ) (Faculté Saint-Jean)</p>
<b>184.7 Pharmacology Courses</b>	<b>184.7 Pharmacology Courses</b>
The following courses may be used by students in the Faculty of Science as science courses: PMCOL 201, 303, 305, 337, 343, 344, 371, 400, 401, 402, 407, 412, 415, 416, 424, 425, 442 and 498	Note: The following courses may be used by students in the Faculty of Science as science courses: PMCOL 201, <b>202</b> , 303, 305, 337, 343, 344, 371, 401, 402, 407, 412, 415, 416, 424, 425, 442 and 498.