# BSc General Degree Requirements

**For students admitted Fall 2014 onward**

A total of ★120 (★ = credits) must be completed with a minimum of ★72 credits in Science.

**Juniors:** You can take a maximum of ★42 of Junior (100-level) courses towards graduation.

**Options:** Courses taken outside of the Faculty of Science.

### Arts Options *(required)*

<table>
<thead>
<tr>
<th>Course</th>
<th>Minimum of ★18 offered by the Faculty of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 102, 103, 125</td>
<td>CHEM 101, 102, 164</td>
</tr>
<tr>
<td>WRS 101, 102</td>
<td>PHYS 114, 124 (144), 126 (146)</td>
</tr>
<tr>
<td>Prior to Fall 2016 – ENGL 121, 122, 123, 124, 126</td>
<td>ASTRO 120, 122</td>
</tr>
</tbody>
</table>

### Outside Options *(optional)*

<table>
<thead>
<tr>
<th>Course</th>
<th>Maximum of ★18 from Faculties other than Arts or Science (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS 4XX</td>
<td>CHEM 101, 102, 164</td>
</tr>
<tr>
<td>9 BIOS 300</td>
<td>PHYS 114, 124 (144), 126 (146)</td>
</tr>
<tr>
<td>15</td>
<td>ASTRO 120, 122</td>
</tr>
</tbody>
</table>

### Arts & Outside Options Combined:

<table>
<thead>
<tr>
<th>Course</th>
<th>Maximum of ★48 Arts &amp; Outside Options combined (non-science)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 102, 103, 125</td>
<td>CHEM 101, 102, 164</td>
</tr>
<tr>
<td>WRS 101, 102</td>
<td>PHYS 114, 124 (144), 126 (146)</td>
</tr>
<tr>
<td>Prior to Fall 2016 – ENGL 121, 122, 123, 124, 126</td>
<td>ASTRO 120, 122</td>
</tr>
</tbody>
</table>

### Junior Core Requirements

You can take a total of ★72 credits in Science.

- ★6 ENGLISH *(max *3 WRS)*
  | ★6 PHYSICAL SCIENCES | ★6 MATHEMATICAL SCIENCES | ★6 LABORATORY SCIENCES |
  | ENGL 102, 103, 125 | CHEM 101, 102, 164 | MATH 114 (134 or 144), 115 (146), 125 |
  | WRS 101, 102 | PHYS 114, 124 (144), 126 (146) | CMPUT 101, 174, 175 |
  | Prior to Fall 2016 – ENGL 121, 122, 123, 124, 126 | ASTRO 120, 122 | STAT 151 |
  | ENGL 121, 122, 123, 124, 126 | CHEM 101, 102, 164 | MATH 114 (134 or 144), 115 (146), 125 |
  | WRS 101, 102 | PHYS 114, 124 (144), 126 (146) | CMPUT 101, 174, 175 |

### Science Major *(with minor)* or Double Major *(no minor)*

<table>
<thead>
<tr>
<th>Course</th>
<th>PHYSICS</th>
<th>PHYSICAL SCIENCES <em>(min ★42)</em></th>
<th>MATHEMATICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCO 104, 105</td>
<td>PHYS 144 (124), 146 (126)</td>
<td>CHEM 101, 102, 261 (164)</td>
<td>MATH 114 (117, 134, or 144)</td>
</tr>
<tr>
<td>★6 PSYCO 258, 275, 282</td>
<td>PHYS 244, 281, 295</td>
<td>PHYS 144 (124), 146 (126)</td>
<td>MATH 115 (118 or 146)</td>
</tr>
<tr>
<td>★6 PSYCO 223, 239, 241</td>
<td>★3 PHYS 271 or 208 with min B'</td>
<td>★3 PHYS 208, 271.</td>
<td>MATH 125 (127)</td>
</tr>
<tr>
<td>★6 Arts/Science PSYCO 200†</td>
<td>★6 PHYS†</td>
<td>★3 CHEM 211, 241, PHYS 294</td>
<td>MATH 214 (217)</td>
</tr>
<tr>
<td>★3 Science PSYCO 300†</td>
<td>★3 PHYS 310, 362, 372, 381</td>
<td>★9 PHYS† 300†</td>
<td>MATH 215 (317)</td>
</tr>
<tr>
<td>★3 Arts PSYCO 300†</td>
<td>★9 PHYS† 300†</td>
<td>★12 Physical Sciences† 300†</td>
<td>MATH 225 (227)</td>
</tr>
<tr>
<td>★3 Science PSYCO 4XX</td>
<td>★3 Arts PSYCO 4XX</td>
<td>★3 MATH 4XX</td>
<td>★3 MATH 4XX</td>
</tr>
<tr>
<td>★3 Arts PSYCO 4XX</td>
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<td>★3 MATH 4XX</td>
<td>★3 MATH 4XX</td>
</tr>
</tbody>
</table>

### Science Major *(with minor)* or Double Major *(no minor)*

<table>
<thead>
<tr>
<th>Course</th>
<th>STATISTICS</th>
<th>COMPUTING SCIENCES</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101, 102, 261 (164), 263</td>
<td>STAT 151, 252, 265, 266</td>
<td>CMPUT 174, 175</td>
</tr>
<tr>
<td>★3 CHEM 211, 241, 282</td>
<td>★12 STAT 200†</td>
<td>★6 CMPUT 201, 204, 229, 272, 291</td>
</tr>
<tr>
<td>★9 CHEM or BIOCH</td>
<td>STAT 378</td>
<td>★12 CMPUT</td>
</tr>
<tr>
<td>★9 CHEM 300†</td>
<td>★6 STAT 300†</td>
<td>★9 CMPUT 300†</td>
</tr>
<tr>
<td>★3 CHEM 4XX</td>
<td>★3 STAT 4XX</td>
<td>★3 CMPUT 4XX</td>
</tr>
</tbody>
</table>

### Biological Sciences

<table>
<thead>
<tr>
<th>Course</th>
<th>Must include ★3 from each of:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 107, 108</td>
<td>- (A) Ecology, evolution or diversity</td>
</tr>
<tr>
<td>★3 BIOL 207 or 208</td>
<td>- (B) Genetics, molecular (or micro-) biology</td>
</tr>
<tr>
<td>★15 BIOS 200†</td>
<td>- (C) Physiology, cell, developmental biology</td>
</tr>
<tr>
<td>★9 BIOS 300†</td>
<td>See Department website for list of courses</td>
</tr>
</tbody>
</table>
| ★3 BIOS 4XX | Must include ★9 with a laboratory component excludes:

- BIOL 107, 108
- ★3 BIOL 207 or 208 already completed.

(Department of Biological Sciences courses only).

BIOS includes: BIOCH, BIOIN, BIOL, BOT, CELL, ENT, GENET, IMIN, MA SC, MMI (except MMI 100 & 133), MICRB, NEURO, PALEO, PHYSL, PMCOL, ZOOL

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**NOTE:** Courses that are cross-listed between multiple Major/Minors MUST only be used towards ONE discipline/"Major/Minor".

Courses in brackets ( ) are equivalent courses. Credit can only be obtained in ONE of those courses.
### OUTSIDE BIOS Includes:

- BIOL 107, 108
- BIOLOGICAL SCIENCES

### CHEMISTRY

- CHEM 101, 102, 261 (164), 263
- CHEM 211, 241, 282
- CHEM or BIOCH 200
- 6 CHEM 300

### BIOLOGICAL SCIENCES

**Biol 107, 108**

- 3 BIOL 207 or 208
- 9 BIOS 200
- 6 BIOS 300

**Statistical requirements**

- GPA of at least 2.0 in the final Fall/Winter (satisfactory standing)
- GPA of at least 2.3 on all courses successfully completed in the Major
- GPA of at least 2.0 in the final Fall/Winter (satisfactory standing)

### CHEMISTRY

- CHEM 101, 102, 261 (164), 263
- CHEM 211, 241, 282
- CHEM or BIOCH 200
- 6 CHEM 300

### BIOLOGICAL SCIENCES

**Biol 107, 108**

- 3 BIOL 207 or 208
- 9 BIOS 200
- 6 BIOS 300

**Statistical requirements**

- GPA of at least 2.0 in the final Fall/Winter (satisfactory standing)
- GPA of at least 2.3 on all courses successfully completed in the Major
- GPA of at least 2.0 in the final Fall/Winter (satisfactory standing)

### ARTS MINORS (Min 24 with at least 6 at 300 including course requirements specified by Faculty of Arts)

- Ancient & Medieval History
- Anthropology
- Arts & Design
- Central/East European Studies
- Christian Theology
- Classical Language (Greek & Latin)
- Classical Studies
- Comparative Literature
- Creative Writing
- Drama
- East Asian Studies
- Economics
- English
- Film Studies
- French
- German
- Hebrew (biblical)
- History
- History of Art, Design & Visual Culture
- Human Geography
- International Studies
- Italian Studies
- Latin American Studies
- Linguistics
- Music
- Native Studies
- Philosophy
- Polish
- Political Science
- Religious Studies
- Russian
- Scandinavian
- Science, Technology & Society
- Sociology
- Spanish
- Ukrainian
- Ukrainian Folklore
- Women’s and Gender Studies

### OUTSIDE MINORS

#### BUSINESS MINOR (**18-30**)

- ACCTG 311, SMO 301
- 6 FIN 301, MARK 301, OMM 352, SMO 321
- 6 Business Options
- ECON 101, 102 does not count towards min 18 required for Business Minor

#### AGRICULTURE MINOR (**24-30**)

- AN SC 200
- AREC 200
- PL SC 221
- REN R 210
- 12 AN SC 300, AREC 300, ENCS 300, PL SC 300, REN R 307, 360, 364, 376, 441, 442, 443, 444, 445, 446, 462, 464, 465, 474, 476, 482, 483

#### HUMAN ECOLOGY (**24-30**)

- HECOL 100
- 12 HECOL 200
- 9 HECOL 300

#### NUTRITION MINOR (**24-30**)

- NUTR 100, NU FS 305, 356, 373
- 12 NUTR 380 (480), NU FS 200, 223, 363, 374, 377, 427, 428
- Requires CHEM 261, 263 as pre-requisites

### GRADUATION REQUIREMENTS

- GPA of at least 2.0 on the last 60 credited to the degree
- GPA of at least 2.3 on all courses successfully completed in the Major
- GPA of at least 2.0 in the final Fall/Winter (satisfactory standing)

*Note: Credit will be granted in only one of ANAT 200, REHAB 350, PTHING 350, KIN 100 (PEDS 100) in any Science degree