# 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.

<table>
<thead>
<tr>
<th>Arts Options (required)</th>
<th>Minimum of ★18 offered by the Faculty of Arts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outside Options (optional)</td>
<td>Maximum of ★18 from Faculties other than Arts or Science (optional) (eg. Anatomy, Business, Education, Agriculture, etc.)</td>
</tr>
<tr>
<td>Arts &amp; Outside Options Combined:</td>
<td>Maximum of ★48 Arts &amp; Outside Options combined (non-science)</td>
</tr>
</tbody>
</table>

## Junior Core Requirements

★24 out of ★120 Total

### ★6 ENGLISH (max ★3 WRS)
- ENGL 102, 103 125
- WRS 101, 102
- Prior to Fall 2016 – ENGL 121, 122, 123, 124, 126

### ★6 PHYSICAL SCIENCES
- CHEM 101, 102, 164
- PHYS 114, 124 (144), 126 (146)
- ASTRO 120, 122

### ★6 MATHEMATICAL SCIENCES
- MATH 114 (134 or 144), 115 (146), 125
- CMPUT 101, 174, 175
- STAT 151

### ★6 LABORATORY SCIENCES
- BIOL 107, 108
- EAS 100, 105
- PSYCO 104

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

### PSYCHOLOGY
- PSYCO 104, 105
- ★6 PSYCO 258, 275, 282
- ★6 PSYCO 223, 239, 241
- ★6 Arts/Science PSYCO 200†
- ★3 Science PSYCO 300†
- ★3 Arts PSYCO 300†
- ★3 Science PSYCO 4XX
- ★3 Arts PSYCO 4XX
- STAT 151 does not count towards minimum ★36 PSYCO required for major

### CHEMISTRY
- CHEM 101, 102, 261 (164), 263
- ★3 CHEM 211, 241, 282
- ★3 CHEM or BIOCH
- ★9 CHEM 300†
- ★3 CHEM 4XX

### PHYSICS
- PHYS 144 (124), 146 (126)
- PHYS 244, 281
- ★3 PHYS 294 or 295
- ★3 PHYS 271 or 208 with min B
- ★6 PHYS†
- ★3 PHYS 310, 362, 372, 381
- ★9 PHYS† 300†
  †Can also be ASTRO, GEOPH, MA PH

### PHYSICAL SCIENCES (min ★42)
- CHEM 101, 102, 261 (164)
- PHYS 144 (124), 146 (126)
- ★3 PHYS 208, 271
- ★3 CHEM 211, 241, PHYS 294
- ★9 Physical Sciences†
- ★12 Physical Sciences† 300†
  †Courses may be chosen from ASTRO, BIOCH, CHEM, GEOPH, MA PH or PHY5
  Minimum ★12 in each of Chemistry and Physics courses

### MATHEMATICS
- MATH 114 (117, 134, 144)
- MATH 115 (118 or 146)
- MATH 125 (127)
- MATH 214 (217)
- MATH 215 (317)
- MATH 225 (227)
- ★3 MATH 4XX

### EARTH & ATMOSPHERIC SCIENCES
- EAS 100
- ★21 EAS†
- ★9 EAS† 300†
- ★3 EAS† 4XX
  †Can also be GEOPH, PALEO

### STATISTICS
- STAT 151, 252, 265, 266
- ★12 STAT 200†
- STAT 378
- ★6 STAT 300†
- ★3 STAT 4XX

### COMPUTING SCIENCES
- CMPUT 174, 175
- ★6 CMPUT 201, 204, 229, 272, 291
- ★12 CMPUT
- ★9 CMPUT 300†
- ★3 CMPUT 4XX

## BIOLOGICAL SCIENCES

- BIOL 107, 108
- ★3 BIOL 207 or 208
- ★15 BIOS 200†
- ★9 BIOS 300†
- ★3 BIOS 4XX

**BIOLOGICAL SCIENCES**

Must include at least ★3 from each of:
- (A) Ecology, evolution or diversity
- (B) Genetics, molecular (or micro-) biology
- (C) Physiology, cell, developmental biology

See Department website for list of courses

**BIOLOGICAL SCIENCES**

Must include ★9 with a laboratory component excludes:
- BIOL 107, 108 and ★3 BIOL 207 or 208 already completed.
  (Department of Biological Sciences courses only).

**BIOLOGICAL SCIENCES**

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

**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.
<table>
<thead>
<tr>
<th>PSYCHOLOGY</th>
<th>PHYSICS</th>
<th>PHYSICAL SCIENCES (min *27)</th>
<th>MATHEMATICS</th>
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<td>★3 PHYS 310, 362, 372, 381</td>
<td>★6 PHYSICAL SCIENCES†</td>
<td>MATH 225 (227)</td>
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<td>★3 Arts PSYCO 300*</td>
<td>★3 PHYS† 300*</td>
<td>Min *9 in each of Chemistry and Physics courses</td>
<td>★3 MATH 228, ★6 MATH 300†</td>
</tr>
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<td>STAT 151 does not count towards minimum ★24 in PSYCO required for minor</td>
<td></td>
<td></td>
<td>or ★9 MATH 215 (317), 334, 300*</td>
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<td>★6 STAT 200†</td>
<td>★6 CMPUT 201, 204, 229, 272, 291</td>
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<tr>
<td>★3 CHEM or BIOCH 200*</td>
<td>★6 EAS† 300†</td>
<td>★3 STAT 300†</td>
<td>★6 CMPUT 300†</td>
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<tr>
<td>★6 CHEM 300*</td>
<td>★Can also be GEOPH, PALEO</td>
<td></td>
<td>Courses used in BIOIN minor CANNOT be used to also meet major requirements</td>
</tr>
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</table>

**SCIENCE MINORS**

**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

**BIOL 107, 108**

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

**BIOLOGICAL SCIENCES**

- Must include at least ★3 from each of:
  - (A) Ecology, evolution or diversity
  - (B) Genetics, molecular (or micro-) biology
  - (C) Physiology, cell, developmental biology

**BIOINFORMATICS (Paired with BIOS major)**

- ★3 BIOI 207 or 221
- GENET 270
- CMPUT 174 (274), 175 (275)
- CMPUT 201, 291
- BIOIN 301, 401

**BIOINFORMATICS (Paired with CMPUT major)**

- BIOI 107, 108, 207
- GENET 270
- CMPUT 301, 401
- ★6 CMPUT 201, 204, 229, 272, 291
- ★301, 366, 391, 410, 466

**OUTSIDE MINORS**

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

- ACCTG 311, SMO 301
- ★6 FIN 301, MARK 301, OM 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

**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, Pther 350, KIN 100 (Peds 100) in any Science degree

Updated April 11, 2017 (ABW)