

# 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.

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

**Junior Core Requirements** ★24 out of ★120 Total

★6 ENGLISH (max *3 WRS)	★6 PHYSICAL SCIENCES	★6 MATHEMATICAL SCIENCES	★6 LABORATORY SCIENCES
ENGL 102, 103 125 WRS 101, 102 Prior to Fall 2016 – ENGL 121, 122, 123, 124, 126	CHEM 101, 102, 164 PHYS 114, 124, 126, 144, 146 ASTRO 120, 122	MATH 114 (144 or 134), 115 (146), 125 CMPUT 101, 174, 175 STAT 151	BIOL 107, 108 EAS 100, 105 PSYCO 104

**Science Major (with minor) or Double Major (no minor)** (Minimum ★36 with at least ★12 at 300-level or higher)

PSYCHOLOGY	PHYSICS	PHYSICAL SCIENCES (min ★42)	MATHEMATICS
PSYCO 104, 105 ★6 PSYCO 258, 275, 282 ★6 PSYCO 223, 239, 241 ★6 Arts/Science PSYCO 200 <sup>+</sup> ★3 Science PSYCO 300 <sup>+</sup> ★3 Arts PSYCO 300 <sup>+</sup> ★3 Science PSYCO 4XX ★3 Arts PSYCO 4XX  STAT 151 does not count towards minimum ★36 PSYCO required for major	PHYS 144 (124), 146 (126) PHYS 244, 281 ★3 PHYS 294, 295 ★3 PHYS 271 or 208 with min B <sup>+</sup> ★6 PHYS <sup>+</sup> ★3 PHYS 310, 362, 372, 381 ★9 PHYS <sup>+</sup> 300 <sup>+</sup>  †Can also be ASTRO, GEOPH, MA PH	CHEM 101, 102, 261 (164) PHYS 124 (144), 126 (146) ★3 PHYS 208, 271 ★3 CHEM 211, 241, PHYS 294 ★9 Physical Sciences <sup>+</sup> ★12 Physical Sciences <sup>+</sup> 300 <sup>+</sup>  †Courses may be chosen from ASTRO, BIOCH, CHEM, GEOPH, MA PH or PHYS  Minimum ★12 in each of Chemistry and Physics courses	MATH 114 (144 or 117 or 134) MATH 115 (146 or 118) MATH 214 (217) MATH 215 (317) MATH 125 (127) MATH 225 (227) ★3 MATH 4XX  MATH 228, ★3 MATH 200 <sup>+</sup> , ★9 MATH 300 <sup>+</sup>  or MATH 334, ★6 MATH 200 <sup>+</sup> , ★6 MATH 300 <sup>+</sup>
CHEMISTRY	EARTH & ATMOSPHERIC SCIENCES	STATISTICS	COMPUTING SCIENCES
CHEM 101, 102, 261(164), 263 ★3 CHEM 211, 241, 282 ★9 CHEM or BIOCH ★9 CHEM 300 <sup>+</sup> ★3 CHEM 4XX	EAS 100 ★21 EAS <sup>+</sup> ★9 EAS <sup>+</sup> 300 <sup>+</sup> ★3 EAS <sup>+</sup> 4XX  † Can also be GEOPH, PALEO	STAT 151, 252, 265, 266 ★12 STAT 200 <sup>+</sup> STAT 378 ★6 STAT 300 <sup>+</sup> ★3 STAT 4XX	CMPUT 174, 175 ★6 CMPUT 201, 204, 229, 272, 291 ★12 CMPUT ★9 CMPUT 300 <sup>+</sup> ★3 CMPUT 4XX  -May be paired with Bioinformatics minor

**BIOLOGICAL SCIENCES** - May be paired with Bioinformatics minor

BIOL 107, 108 ★3 BIOL 207 or 208 ★15 BIOS 200 <sup>+</sup> ★9 BIOS 300 <sup>+</sup> ★3 BIOS 4XX	<b>Must include ★9 with a laboratory component excludes: BIOL 107, 108 and ★3 BIOL 207 or 208 already completed. (Must be courses offered by the Department of Biological Sciences).</b>	<b>Must include at least ★3 from each of:</b> - Ecology, evolution or diversity - Genetics, molecular (or micro-) biology - Physiology, cell, developmental biology <b>Excludes: BIOL 107, 108, 207, 208</b>	<b>See Department website for list of courses</b>
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BIOS includes: BIOCH, BIOIN, BIOL, BOT, CELL, ENT, GENET, IMIN, MA SC, MMI (except MMI 100 & 133), MICRB, NEURO, PALEO, PMCOL, PHYSL, ZOOL

**SCIENCE MINORS** (Minimum ★24 with at least ★6 at 300-level or higher – Physical Sciences Minimum ★27)

PSYCHOLOGY	PHYSICS	PHYSICAL SCIENCES	MATHEMATICS
PSYCO 104, 105 ★3 PSYCO 258, 275, 282 ★3 PSYCO 223, 239, 241 ★6 Arts/Science PSYCO 200 <sup>+</sup> ★3 Science PSYCO 300 <sup>+</sup> ★3 Arts PSYCO 300 <sup>+</sup>  STAT 151 does not count towards minimum ★24 in PSYCO required for minor	PHYS 144 (124), 146 (126) PHYS 244, 281 ★3 PHYS 294 or 295 ★3 PHYS 271 or 208 with min B <sup>+</sup> ★3 PHYS 310, 362, 372, 381 ★3 PHYS <sup>+</sup> 300 <sup>+</sup>  † Can also be ASTRO, GEOPH, MA PH	CHEM 101, 102, 261 (164) PHYS 124 (144), 126 (146) ★6 Physical Sciences <sup>+</sup> ★6 Physical Sciences <sup>+</sup> 300 <sup>+</sup>  †Courses may be chosen from ASTRO, BIOCH, CHEM, GEOPH, MA PH or PHYS  Minimum ★9 in each of Chemistry and Physics courses	MATH 114 (144 or 117 or 134) MATH 115 (146 or 118) MATH 214 (217) MATH 125 (127) MATH 225 (227)  ★3 MATH 228, ★6 MATH 300 <sup>+</sup> or ★9 MATH 215 (317), 334, 300 <sup>+</sup>
CHEMISTRY	EARTH & ATMOSPHERIC SCIENCES	STATISTICS	COMPUTING SCIENCE
CHEM 101, 102, 261 (164), 263 ★3 CHEM 211, 241, 282 ★3 CHEM or BIOCH 200 <sup>+</sup> ★6 CHEM 300 <sup>+</sup>	EAS 100 ★15 EAS <sup>+</sup> ★6 EAS <sup>+</sup> 300 <sup>+</sup>  † Can also be GEOPH, PALEO	STAT 151, 252 STAT 265, 266 ★6 STAT 200 <sup>+</sup> STAT 378 ★3 STAT 300 <sup>+</sup>	CMPUT 174, 175 ★6 CMPUT 201, 204, 229, 272, 291 ★6 CMPUT ★6 CMPUT 300 <sup>+</sup>
BIOLOGICAL SCIENCES			
BIOL 107, 108 ★3 BIOL 207 or 208 ★9 BIOS 200 <sup>+</sup> ★6 BIOS 300 <sup>+</sup>	<p><b>Must include at least ★3 from each of:</b></p> <ul style="list-style-type: none"> <li>- Ecology, evolution or diversity</li> <li>- Genetics, molecular (or micro-) biology</li> <li>- Physiology, cell, developmental biology</li> </ul> <p><b>Excludes: BIOL 107, 108, 207, 208</b></p>		<p><b>See Department website for list of courses</b></p>
BIOS includes: BIOCH, BIOL, BOT, BIOIN, CELL, ENT, GENET, IMIN, MA SC, MMI (except MMI 100 & 133), MICRB, NEURO, PALEO, PMCOL, PHYSL, ZOO			

**ARTS MINORS** (Min ★24 with at least ★6 at 300<sup>+</sup> including course requirements specified by Faculty of Arts *Calendar §44*)

Ancient & Medieval History	Economics	International Studies	Political Science
Anthropology	English	Italian Studies	Psychology
Arts & Design	Film Studies	Latin American Studies	Religious Studies
Central/East European Studies	French	Linguistics	Russian
Christian Theology	German	Middle East & African Studies	Scandinavian
Classical Studies	Greek & Latin	Music	Science, Technology & Society
Comparative Literature	Hebrew (biblical)	Native Studies	Sociology
Creative Writing	History	Philosophy	Spanish
Drama	History of Art, Design & Visuals	Polish	Ukrainian
East Asian Studies	Human Geography		Women's Studies
	Individualized Study		

**OUTSIDE MINORS** (Minimum ★24 with at least ★6 at 300-level or higher – Business Minimum ★18)

BUSINESS MINOR	AGRICULTURE MINOR	HUMAN ECOLOGY MINOR	NUTRITION MINOR
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	AN SC 200 AREC 200 PL SC 221 REN R 210 ★12 AN SC 300 <sup>+</sup> , AREC 300 <sup>+</sup> , ENCS 300 <sup>+</sup> , PL SC 300 <sup>+</sup> , REN R 307, 360, 364, 376, 441, 442, 443, 444, 445, 446, 462, 464, 465, 467, 474, 476, 482, 483	HECOL 100 ★12 HECOL 200 <sup>+</sup> ★9 HECOL 300 <sup>+</sup>	NUTR 100, NU FS 305, 356, 373 <sup>+</sup> ★12 NUTR 380, NU FS 200, 223, 363, 374, 377, 427, 428  Prior to Fall 2016 – NUTR 480 †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, PHER 350, KIN 100 (PEDS 100) in any Science degree