

## B.Sc. MAJOR in ASTROPHYSICS

### Program Requirements

**2018-19**  
**Calendar**

English 3 credit hr	Humanities 3 credit hr	Arts/ECON 12 credit hr	Electives 21 credit hr	MATH/CSCI 6 credit hr	Science Breadth 18 credit hr	MAJOR Subject Area ASTR (18) + PHYS (39) Total 57 credit hr	
ENGL 1205				MATH 1210 Intro Calculus I	***	ASTR 1100 Intro to Astrophysics	PHYS 1210 (1100) Univ. Physics I
				MATH 1211 Intro Calculus II	***	ASTR 2100 Foundations of Astrophysics	PHYS 1211 (1101) Univ. Physics II
					***	ASTR 2400 Physics of Stars	PHYS 1500 Intro. Modern Phys.
				MATH 2311 Intermediate Calculus		ASTR 3400 Interstellar Matter & Stellar Evolution	PHYS 2300 Vibrations Waves Optics
				MATH 2301 Applied Linear Algebra		ASTR 3500 Galaxies and Cosmology	PHYS 2301 Analytical Mechanics
				MATH 2303 Differential Equations I		ASTR 4200 or 4600 Observational Astronomy <u>or</u> High-Energy Astrophysics	PHYS 2400 Electricity & Magnetism
							PHYS 3200 Math Methods in Phys. I
							PHYS 3201 Math Methods in Phys. II
							PHYS 3300 Classical Mechanics
							PHYS 3500 Quantum Mechanics I
							PHYS 3350 Thermal Physics
							PHYS 3400 Electrodynamics
							PHYS 4500 Quantum Mechanics II

A minimum GPA of 2.2 is required in the Major Subject Area courses

**NOTES:**

\*\*\* Recommended: CSCI 1226, CHEM 1210,  
CHEM 1211

LIGHT GRAY = suggested schedule for Year1

DARK GRAY = suggested schedule for Year2

**No changes to requirements from 2017-18**

Every effort is made to ensure that the information summarized here is accurate. Students are reminded that the University Academic Calendar is the official source of Program information.

**Course & Elective Options:**

**Sciences:** Astronomy, Biology, Chemistry, Computing Science, Environmental Science, Geology, Mathematics, Physics, Psychology (Excluding ASTR 1010, CHEM 1221, FRSC 2200, FRSC 2001, GEOL 1202, GEOL 1203, GEOL 1210, MATH 1202, and MATH 1203)

**Arts:** Anthropology, Arabic, Asian Studies, Atlantic Canada Studies, Chinese, Classics, Economics, English, French, German, Geography, Hispanic Studies, History, Irish Studies, Japanese, Linguistics, Philosophy, Political Science, Religious Studies, Sociology, Spanish, Women & Gender Studies

**Humanities:** Classics, English (other than 1205), History, Philosophy, Religious Studies and Modern Languages (courses in literature and/or culture)