

B.Sc. MAJOR in ASTROPHYSICS Program Requirements

**2024-25
Calendar**

Humanities 6 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	
			MATH 1210 Intro Calculus I	CSCI 1226 Or CSCI 1227	ASTR 1100 Intro to Astrophysics	PHYS 1210 Univ. Physics I
			MATH 1211 Intro Calculus II	***	ASTR 2100 Foundations of Astrophysics	PHYS 1211 Univ. Physics II
				***	ASTR 2400 Physics of Stars	PHYS 1500 • Intro. Modern Phys.
				MATH 2311 Intermediate Calculus	ASTR 3400 Interstellar Matter & Stellar Evolution	PHYS 2302 Mechanics I
				MATH 2301 Applied Linear Algebra	ASTR 3500 Galaxies and Cosmology	PHYS 2303 Mechanics II
				MATH 2303 Differential Equations I	ASTR 4200 or 4600 Observational Astronomy <u>or</u> High-Energy Astrophysics	PHYS 2410 Electricity & Magnetism
						PHYS 2510 Thermodynamics
						PHYS 3200 Math Methods in Phys. I
						PHYS 3410 Electromagnetism
						PHYS 3500 Quantum Mechanics I
						PHYS ≥ 3xxx
						PHYS ≥ 3xxx
						PHYS ≥ 3xxx

NOTES:

*** Recommended: CSCI 1228 (*prerequisite is CSCI 1226 with grade of C or higher*) and/or CHEM 1210 & 1211

- PHYS 1500 can be taken in Year 2.

LIGHT GRAY = suggested schedule for Year1

DARK GRAY = suggested schedule for Year2

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

Course & Elective Options:

Sciences: Astronomy, Biology, Chemistry, Computing Science, Environmental Science, Geography (Group B only), Geology, Mathematics, Physics, Psychology (Excluding ASTR 1010, CHEM 1221, MATH 1202, and MATH 1203)

Arts: Anthropology, Arabic, Asian Studies, Atlantic Canada Studies, Chinese, Ancient Studies (Classics), Criminology, Economics, Education, English, French, German, Geography (Group A, C, D only), Health Wellness and Sport in Society, Hispanic Studies, History, Intercultural Studies, Global Development Studies (International Development Studies), Irish Studies, Japanese, Linguistics, Philosophy, Political Science, Religious Studies, Sociology, Social Justice and Community Studies, Spanish, Women & Gender Studies

Humanities: Atlantic Canada Studies, Asian Studies, Ancient Studies (Classics), English, History, Intercultural Studies, Irish Studies, Philosophy, Religious Studies, and Modern Languages (courses in literature and/or culture)