



Electives

2025/2026 Academic Year

This document is a guide. Always check your degree plan against official systems (e.g., DARS).

LEGEND

Physics
elective

Prerequisites

Exclusions

Physics
flickering
elective

For flickering courses, year in parentheses indicates odd or even for the term in which it is offered. (e.g., Fall Even Year = Fall 2024, Winter Even Year = Winter 2024, Fall Odd Year = Fall 2025, Winter Odd Year = Winter 2025)

See Honours flowchart for more PHYC electives

	FALL	WINTER
1000-		PHYC 1600 Understanding Weather
2000-	PHYC 2451 Solar System Astronomy & the Night Sky 1 first year science course PHYC 1400 and 1451 PHYC 2800 Climate Change ECON 2850, PHYC 2850	PHYC 2270 Intro Applied Geophysics PHYC 1190/1290 or 1310/1320; EARTH 1080; MATH 1000 PHYC 2310 Energy and the Environment PHYC 1190/1290 or 1310/1320; CHEM 1011; and MATH 1000 (or MATH 1215) PHYC 3330 PHYC 2452 Stellar & Galactic Astrophysics 1 first year science course; and MATH (1000 or 1215 or 1500 or 1280) PHYC 1452 and 2450
3000-	PHYC 3303 Materials Science (CHEM 3305) CHEM 1012; PHYC 3200 (can be coreq) or (CHEM 2301 & 2304) or (ERTH 2001 & 2002) CHEM 3305 PHYC 3540 Optics and Photonics (Even Year) PHYC 2150; PHYC 2510; MATH 2001; MATH 2120 PHYC 3340 Electronics PHYC 2150 or ENGI 2001 PHYC 3000 PHYC 3900 Soft matter physics (Odd Year) MATH 2001; MATH 2120	PHYC 3180 Contemporary Physics (Even Year) MATH 2001; at least one of PHYC 2515 or 2150 PHYC 3210 Statistical Mechanics (Even Year) PHYC 3200; MATH 2001; MATH 2120 PHYC 3250 Computational Methods (Even Year) PHYC 1190/1290 or 1310/1320; MATH 1000; PHYC 2050
4000-	PHYC 4160 Math Methods for Physics (MATH 4165) PHYC 2060; MATH 2001; MATH 2120 PHYC 5160 and MATH 5165 PHYC 4411 Atmospheric Dynamics I PHYC 2060 PHYC 5411 OCEA 5411 PHYC 4520 Intro to Atmospheric Science PHYC 2060 PHYC 5520 OCEA 5520 PHYC 4540 Synoptic Meteorology I PHYC 4411 (coreq) PHYC 3xxx PHYC 4595 Atmospheric Chemistry PHYC 1190/1290 or PHYC 1310/13020; MATH 1000; CHEM 1011/1012	PHYC 4230 Solid State Physics (Even Year) PHYC 3640; PHYC 3210 (can be coreq) PHYC 5230 PHYC 4250 Numerical Computing (Even Year) PHYC 1290 or 1320; MATH 1010; PHYC 2050 PHYC 4460 Photons and Atoms (Odd Year) PHYC 3640 PHYC 4311 Fluid Dynamics I (OCEA 4311) Instructor approval PHYC 5311, OCEA 5311 PHYC 4412 Atmospheric Dynamics II PHYC 4411 PHYC 4505 Atmospheric Physics PHYC 2060; PHYC 4520 PHYC 4550 Synoptic Meteorology II PHYC 4540 PHYC 4570 Radiative Transfer PHYC 2060; PHYC 2510