



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