

# PHYS 404. CLIMATE PHYSICS.

---

Credits: 3

Offered by: Physics (Faculty of Science)

Terms offered: Fall 2025

[View offerings for Fall 2025 in Visual Schedule Builder.](#)

## Description

This course covers the essentials of climate physics through the lens of one-dimensional, vertical atmospheric models. This includes shortwave and longwave radiative transfer, convection, phase changes, clouds, greenhouse gases, and atmospheric escape. This is an adequate level of detail for understanding Earth's climate, paleoclimate, anthropogenic climate change, or pursuing studies of Solar System planets and extrasolar planets.

- Prerequisite(s): PHYS 230 or PHYS 251, PHYS 232 or PHYS 253, MATH 315 or MATH 325, and MATH 222
- Restriction(s): Not open to students who have taken ATOC 404

Most students use Visual Schedule Builder (VSB) to organize their schedules. VSB helps you plan class schedules, travel time, and more.

[Launch Visual Schedule Builder](#)