

# ATOC 515. TURBULENCE IN ATMOSPHERE AND OCEANS.

---

Credits: 3

Offered by: Atmospheric & Oceanic Sciences (Faculty of Science)

This course is not offered this catalogue year.

## Description

Application of statistical and semi-empirical methods to the study of geophysical turbulence. Reynolds' equations, dimensional analysis, and similarity. The surface and planetary boundary layers. Oceanic mixed layer. Theories of isotropic two- and three- dimensional turbulence: energy and enstrophy inertial ranges. Beta turbulence.

- Winter
- 3 hours lecture
- Prerequisite (Undergraduate): MATH 314, MATH 315, a previous course in fluid dynamics (such as ATOC 512), or permission of instructor

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](#)