

ATOC 373. ARCTIC CLIMATE AND CLIMATE CHANGE.

Credits: 3

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

This course is not offered this catalogue year.

Description

Introduction to the principles of Arctic climate and climate change with a special focus on the Canadian Arctic. The primary objectives of the course are to 1) develop an understanding of the presentday high latitude climate, including the atmosphere, the ocean and the sea ice, 2) develop an understanding of the role of the polar regions in the global climate and climate change, and 3) introduce students to field methods of polar research including ice coring, sea-ice buoys installation and data analysis, atmospheric measurements (radiative and turbulent heat fluxes), and ocean hydrographic measurements (e.g. CTD, nets).

- Prerequisite(s): Two courses from the following list: GEOG 203, GEOG 205, GEOG 272, GEOG 372, ENVR 200, ENVR 202, EPSC 203, EPSC 210, EPSC 212, EPSC 220, EPSC 233, ATOC 214, ATOC 215, ATOC 219, SOIL 300.
- Corequisites: EPSC 373, GEOG 373, [ATOC 473 or EPSC 473 or GEOG 473]
- Note(s): 1. This course is one of a set of four field courses (ATOC 373, EPSC 373, GEOG 373, ATOC/EPSC/GEOG 473) designed to be taken concurrently. It complements programs in natural science disciplines by providing students with specialized field training and research experience focusing on the unique environmental conditions of cold polar systems. 2. Cost includes transportation, room and board, field expenses. Students are charged \$12,000 for the four courses combined: ATOC, 373, EPSC 373, GEOG 373, and ATOC/EPSC/GEOG 473. 3. Arctic localities: Iqaluit, Resolute Bay, and Central Axel Heiberg Island in the Canadian High Arctic.

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