

Home	Research	Publications	Teaching	Miscellaneous
----------------------	--------------------------	------------------------------	--------------------------	-------------------------------

GEOS 120, Part B: GLACIERS

Lectures TR 2:00-3:30 pm, 10/5/01 through 11/2/01

Instructor: Hajo Eicken, Geophysical Institute, UAF

e-mail: hajo.eicken@gi.alaska.edu

Phone: 474-7280

Office: West Ridge Research Building (WRRB) 104E (office hours: Tuesdays & Thursdays 4:00-5:00 pm)

Recommended text:

Post & LaChapelle (2000): Glacier ice, University of Washington Press, 145pp.

Grading criteria:

Quizzes (Thursdays): 15 % (total)

Final exam, Nov 2 (Glaciers): 50 %

Labs: 35 % (total)*

* Attendance of labs is mandatory. Lab exercises are to be completed and handed in by the end of each lab session.

Course outline

1. Introduction and overview (Oct 5)

- Glaciers: What are they? Where do they occur? Why do we study them?

2. Ice, glaciers and landscapes (Oct 10, 12, 17, 19)

- The building blocks of a glacier: Snow, firn and ice

- Anatomy and flow of a glacier
- Glacier types & Glacier hydrology
- Ice sheets, ice streams and ice shelves
- Periglacial phenomena and the glacial landscape

3. Ice ages and climate (Oct. 24, 26, 31)

- Glaciation and the ice ages
- Glaciers, ice sheets and global climate change
- Ice cores as an archive of past climate

4. Final exam for Glaciers part of class (Nov 2)

Last update: October 17,
2001

[Top of page](#)