

## GLACIERS - GEOS 617

**Prerequisites:** Graduate standing or permission of instructor

Fall 2007, Mon 8.45-10.15 am and Wed 12 am – 2 pm,  
Elvey Building, Rm 414

**Instructor:** Regine Hock, Geophysical Institute, Elvey Building 401C  
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ph: 474 – 7691

**Office hours:** by appointment

### Course content

The course deals with present-day glaciers and ice sheets including the mechanisms responsible for their existence, motion and variations, and the paleoclimate information they contain. The course focuses on the processes related to glacier mass balance, glacier meteorology, energy exchange at the glacier surface, glacier-climate interactions, and the response of glaciers to climate change, but also includes topics such as glacier hydrology, ice dynamics, and glacier thermodynamics.

**Instructional methods:** lectures, student presentations, literature seminars

Class attendance is mandatory and participation encouraged.

### Grading

Problem sets	35%
Student presentations	35%
Final exam	20%
Participation	10%

The Office of Disability Services implements the Americans with Disabilities Act (ADA) and insures that UAF students have equal access to the campus and course materials. Please let the instructor know if you need special accommodation.