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GEO 595.01: Special Topics - Advanced Glaciology

Joel T. Harper

University of Montana - Missoula, joel.harper@mso.umt.edu

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Advanced Glaciology (Geosciences 595, 1 credit) – Spring 2015

Meeting

Thursdays 3-5 PM, ISB Room 406

Instructor information

Joel Harper

Office: ISB 407

Office ph: 243-5867

e-mail: Joel@mso.umt.edu → I check this often, including weekends

www.umt.edu/geology/faculty/harper

Course objective

The primary goal of this course is to gain in-depth understanding of processes, research methods, and recent scientific breakthroughs related to ice sheet flow. In contrast to a survey course, we will go deep into a few specific topics. This course is only appropriate for graduate students conducting advanced research related to the broad field of glaciology.

Course Design and Student Responsibilities

There will be two course activities and we will divide our time between them. We will look for opportunities for overlap between the focus areas.

1) Review and discussion of student/faculty research related to ice sheet dynamics

All students have research projects that have some component related to ice sheet flow processes. This is an opportunity to have the entire group spend some time reading and discussing a key topic related to your work.

2) Review and assess recent scientific advances in ice sheet motion

We will perform peer review of recently published works on ice sheet flow dynamics. The review will consist of a written evaluation and a panel discussion. Each week we will address a different topic and set of associated publications. The entire group will read a common paper and perform a scientific peer review of the article. One group member will take the lead on conducting the group review. This will involve facilitating the discussion and most likely, reading and presenting other related publications which aid the discussion. The facilitator will write a group summary of the main conclusions of the panel review.

Grading

Letter grades will be assigned. Grades are based on level and quality of participation. Equal weight will be given to performance in the different course focus areas.

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online via the UM office of Student Affairs website.