

Geography/ENST 3317

Fluvial Geomorphology

Fall Term, 2024

Instructor: Dr. Kamil Zaniewski
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Lectures: Monday, Wednesday 4:00 – 5:30 in RC 2003

Course Description:

The objective of the course is to introduce the topic of fluvial geomorphology. The course will provide students with an overview of the fluvial systems and their dynamics. Students will become familiar with basic concepts such as flow regime, role of sediments, channel geometry and system response to change such as flood or flow obstructions. Material will be presented to students in lectures. Although there are no labs scheduled for the course, students may be expected to complete some take-home assignments.

Course Objectives:

In order to successfully complete the course, students will be expected to demonstrate understanding of the following fluvial geomorphology concepts:

- Fluvial Systems,
- Flow Regimes
- Sediment Sources
- Channelized Flow
- Fluvial Erosion
- Fluvial Transportation
- Fluvial Sedimentation
- Channel Form
- Systemic Response to Change

Textbook:

Charlton, R. 2008. Fundamentals of Fluvial Geomorphology. Routledge. 234 pp.

Course Grading:

Progress Exam	30% (Oct. 9)
Midterm Exam	30% (Nov. 13)
Final Exam	40%

Course Policies

The following course policies are consistent with those of the Geography Department and Lakehead University.

1. Regular attendance is expected in lectures.
2. Any absence due to illness, disability, or domestic affliction should be reported to the instructor. Absence due to extracurricular activities (e.g. athletics) should be discussed with the instructor PRIOR to the absence. If you miss a class, it is your responsibility to obtain the notes from a classmate. I can provide you with any handouts, but will not provide you a repeat of the lecture or my lecture notes.
3. Students with special needs should talk to me at the beginning of the course and register with the Student Success Centre.
4. Assigned readings, when provided, are to be read prior to the next lecture. This will allow you to get the most out of the lectures and ask informed questions.
5. Questions may be asked anytime during lectures. I won't be offended.
6. Make-up exams will be made available according to the university regulations regarding Missed or Late Academic Term Work. For more information about this policy follow the link here:

<https://www.lakeheadu.ca/studentcentral/exams/missed-academic-term-work>
7. Assignments are to be handed in before the specified due date. Material submitted after the deadline will be accepted but will be penalized 10% per day.
8. Assignments will be graded for content, legibility, structure, spelling and grammar.
9. All the tests in the course will be done through the D2L portal but will be completed in person (in the assigned classroom). Please notify me if you are unable to obtain the use of a WiFi-enabled laptop computer for the test.