University of Guelph  
Department of Geography  

GEOG 3000 Fluvial Processes  

Lectures: Tuesdays and Thursdays, 8:30 AM – 9:50AM | GRHM room 2310  
Labs: Monday, 12:30PM – 2:20PM; Friday, 10:30AM– 12:20PM; Wednesday 3:30PM – 5:20PM | HUTT room 240 B  
Exam: Thursday December 14th, 2017, 2:30PM, Room TBD  

Lecturer: Jamie Miller  
Office: Thornborough 2116  
Email: jmille11@uoguelph.ca  
Office Hours: Monday 9:00AM – 12:00PM; Tuesday 1:00PM – 4:00PM  

GTA: John Tweedie  
Office:  
Email:  
Office Hours: By appointment  

Course Objectives  
The primary objective of this course is to examine flow in nature, with a specific focus on form and function of river systems. This includes the principles of fluid mechanics, hydrology, geomorphology, sedimentology and ecology. Emphasis is placed broader applications of these sciences and on alternative learning approaches.  

Prerequisites  
GEOG*2000 (Engineering students may substitute other courses with my permission). The course is designed for students specializing in Earth Surface Science and is numerically intensive. GEOG*2460 or STAT*2040 are strongly recommended.  

Text  

TOPICS  
1. Flows in nature  
2. River channels  
3. Aquatic habitats  
4. Human impacts  
5. River mechanics  
6. Erosion and sediment transport  
7. Bedforms
Course Homepage
There is a course webpage available on Courselink. Lecture materials will be placed on the webpage. Please do not use this resource as an alternative to the lectures. Lectures provide context and nuance, while the lecture notes provide a synopsis.

Course Structure
8% - Topic 1 paper
10% - Group presentation/lectures for Topics 2-7
12% - In-class quizzes for Topics 2-7 (2% per quiz)
10% - Labs (Week 9)
10% - In-class case study project on ecological engineering (Week 11)
20% - Midterm (Week 7)
30% - Final

Late assignments will be penalized 5% per day. See the GTA for special considerations on medical, compassionate or psychological grounds.

Class Attendance
The structure of this course places heavy importance on attending all of the lectures. The majority of the marks are derived from in-class participation and assignments that happen on a weekly basis.

E-mail Communication
As per university regulations, all students are required to check their uoguelph.ca e-mail account regularly: e-mail is the official route of communication between the University and its students. If you have questions regarding course materials please first consult the materials on Courselink. I encourage students to visit and ask questions during office hours. For e-mail inquiries I will try my best to respond within 24 hours but the actual time may vary.

When You Cannot Meet a Course Requirement
When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons, please advise the course instructor (or designated person, such as a teaching assistant) in writing, with your name, id#, and e-mail contact. See the undergraduate calendar for information on regulations and procedures for Academic Consideration.

Drop Date
The last date to drop one-semester courses, without academic penalty, is Friday, November 3rd, 2017. For regulations and procedures for Dropping Courses, see the Undergraduate Calendar.

Accessibility
The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment. Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact the Centre for Students with Disabilities as soon as possible. For more information, contact CSD at 519-824-4120 ext. 56208 or email csd@uoguelph.ca or see the website.

Academic Misconduct
The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community – faculty, staff, and students – to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor. The Academic Misconduct Policy is detailed in the Undergraduate Calendar.

**Recording of Materials**
Presentations which are made in relation to course work—including lectures—cannot be recorded or copied without the permission of the presenter, whether the instructor, a classmate or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.

**Resources**
The Academic Calendars are the source of information about the University of Guelph’s procedures, policies and regulations, which apply to undergraduate, graduate and diploma programs.