OBJECTIVES
The primary objective is to examine river form and function. This includes principles of fluid mechanics, hydrology, geomorphology, sedimentology and ecology. The application of these sciences is examined through case studies which reinforce the key concepts and illustrate the relevance of the science. Emphasis is placed on Canadian research and local examples of their application.

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. Fluvial System
2. Stream Hydrology
3. Flow Mechanics
4. Sedimentary Processes and Erosion
5. River Channels
6. Ecological Considerations
7. Ice and Rivers (Hydraulics and Ecology)
8. Application of the Science
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
The course involves lectures, lab assignments (40%), a mid-semester test (20%) and a final exam (40%). You are responsible for attending all classes and labs. You are responsible for all aspects of the course on exams, including material in the textbook and lectures that are not in the notes.

Assignments
There will be four assignments administered and graded by a graduate teaching assistant (GTA).

Late laboratory assignments will be penalized at a rate of 10% per day late of the value of the assignment. See the GTA for special consideration on medical, compassionate or psychological grounds.

Class Attendance
The University of Guelph Library ‘Fastfacts’ notes the following: “Although the lectures in each course vary as to the type and amount of information they provide, if you’re not in class, you won’t get any of it. If you rely solely on your course’s online notes, you miss the instructor’s explanatory comments and supporting information. You may also find it difficult to determine the most important information for the exam since you don’t know what the instructor emphasized in lecture. If you borrow a classmate’s notes, you could also be missing important information, and the information you do get has been filtered by someone else’s background knowledge, note taking skills, and attention span.”

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 will depend on my workload.

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, October 31, 2013. For regulations and procedures for Dropping Courses, see the Undergraduate Calendar.
Copies of Out-of-Class Assignments
Keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

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 https://www.uoguelph.ca/csd/.

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.