Public Health & COVID-19

It is our shared responsibility to ensure our classroom space (lectures & labs) remains a safe and healthy environment for all of us. Strict compliance with all public health regulations set forth by the Government of Ontario, Wellington-Dufferin-Guelph Public Health, and the University of Guelph is required. Please be sure you are familiar with all the University of Guelph’s COVID-19 policies. Further you need to complete the COVID-19 screening daily when you attend campus.

- If you, or someone in your household, is feeling ill, please do not come to campus. I will do the same if necessary. Please follow the most up to date rules on ‘self-isolation’ provided by the Government of Ontario. In the event of my own self-isolation or illness, there may be significant changes to the course based on what I am able to do under these conditions.
- Students who do not comply with public health regulations, including but not limited to physical distancing and proper mask wearing (covering nose and chin), will be asked to leave the class immediately. Breaches of public health regulations will be reported to the Student Conduct Support Coordinator, the Chair of the Department of Geography, Environment & Geomatics, and the Associate Dean (Academic) of the College of Social and Applied Human Science. The Campus Police may also be involved.
- Lectures and/or labs may be cancelled or moved to the online environment if I deem there are significant or sustained breaches to public health regulations in the class. This includes proper mask wearing (covering nose and chin). As long as a mask mandate is in place, you should limit eating and drinking in class.
- At any point during the class, you may stop the lecture/lab to inform the instructor of any breaches to public health. Simply raise your hand or stand up and say ‘there is a breach to public health occurring.’ You do not have to identify where or who.
- If you require a short-term accommodation due to COVID-19, please contact me as soon as possible. This will be addressed as per the earlier policy. Longer or more complex accommodation should be addressed to Student Accessibility Services as soon as possible.
- You are strongly encouraged to familiarize yourself with Student Accessibility Services, your academic advising office (e.g., BACO, BSc Advising etc.) and Health Services should you require their assistance during the semester.
- If it becomes necessary to move this course completely online during the semester, all changes will be communicated via CourseLink, and will comply with University of Guelph policies. However, this course has not been designed to be fully remote, so there may be bumps and unforeseen challenges if a transition is needed.

Overall, F21 exists in a stressful public health environment, which will require understanding and compassion from all of us.

Why should I take this course?

Fluvial geomorphology is a rapidly growing field that requires advanced understanding of fluid mechanics and hydrology. Students taking this course can expect to advance their understanding fluvial geomorphology and its related fields, and refine skills developed in 2nd year physical geography courses.
Purpose
This course examines the dynamic processes and landforms related to rivers and how they change spatially and temporally. This course will use lectures, discussions, lab and field activities to address topics in fluvial geomorphology including the physical properties of water flow, sediment transport, channel pattern, environmental change, human impact on river systems, and applied geomorphology.

Calendar Description
This course examines processes and landforms associated with rivers. Particular emphasis is placed on the interaction between water and sediment movement and channel morphology. Case studies of human impact on river systems are presented.

Prerequisite(s): GEOG*2000, (GEOG*2460 or STAT*2040)

Territorial Acknowledgement
Acknowledging the territory on which we learn and work honours the relationship between lands/waters and the Indigenous ancestors and stewards of them. This acknowledgement is adapted from the University of Guelph Indigenous Resource Centre and Student Life.

The University of Guelph rests on the traditional territory of the Attawanderon people. We therefore acknowledge the Attawanderon people and offer our respect to Anishinaabe, Haudenosaunee and Métis neighbours as the university and community strive to strengthen our relationships with them. We also recognize the significance of the Dish with One Spoon Covenant to this land. The Dish with One Spoon Covenant is a peace agreement made between Indigenous nations before the Europeans arrived. It characterizes our collective responsibility to each other and Mother Earth -we should take only what we need, leave enough for others and keep the dish clean.

Statement on Expectations for Inclusivity
Different perspectives and lived experiences shape who we are and make our communities stronger. I want everyone in our class to feel safe, feel that they belong and that their ideas, perspectives, and lived experiences are important. It is my intent that students from all diverse backgrounds and perspectives be well served by this course, that students’ learning needs be addressed both in and out of class, and that the diversity that students bring to this class be viewed as a resource, strength and benefit. It is my intent to present materials and activities that are respectful of diversity: gender, sexuality, disability, age, socioeconomic status, ethnicity, race, and culture. Your suggestions are encouraged and appreciated. Please let me know ways to improve the effectiveness of the course for you personally or for other students or student groups.

Organization
In general, there will be three lectures, with some class time being used for introduction or review of assignments or lab concepts. There will be labs throughout the semester beginning the first full week of class in September (week beginning Monday Sept 13, 2021). There will be two field trips throughout the semester – one on a weekend.

Learning Outcomes
The University of Guelph is a leader in Learning Outcomes at universities. Specifically, there are Learning Outcomes defined that are applicable to all undergraduate students. Additionally, each degree program and major have specific Learning Outcomes that contribute to the overall University goals (see the links below for University LOs and Majors in Geography, Environment & Geomatics LOs). In order to achieve these in GEOG*3000 we have a specific set of Learning Outcomes as well. The course activities and overall course design relate to these Learning Outcomes our broad goals for this course or ‘the things you should know once you’ve completed the course’ are listed here. If you have any questions or concerns about this, please don’t hesitate to discuss this with me.

Essentially you should see this section of the syllabus as part of a contract – this is what I want you to remember/learn in this class and I will do my best to ensure you have every opportunity to learn and practice what you’ve learned in this class in order to achieve these learning outcomes.
GEOG*3000 Learning Outcomes

1. **Analyze** the Earth as an integrated human-environment system.
   - Examine and describe flow characteristics, interactions and exchanges within fluvial networks

2. **Integrate** knowledge from previous courses and material used in this course to develop critical ideas and understanding of the major processes influencing fluvial systems.
   - Synthesize assigned readings
   - Integrate key elements from previous courses with this course – e.g., principals of geomorphology, elements of equilibrium

3. **Collect** and **analyze** data and generate interpretations that demonstrate key Fluvial Geomorphology concept interrelatedness.
   - Execute data collection
   - Complete data analysis following standard procedures in the Geosciences
   - Draw interpretations from the data analysis and contextualize these within the appropriate literature
   - Utilize appropriate visualizations and terminology

4. **Investigate** complex real world challenges related to Fluvial Systems.
   - Define variables contributing to real-life river/stream issues/problems
   - Actively reflect and participate in class discussions
   - Utilize appropriate terminology

5. **Develop** and improve written communication and data presentation skills related to key Fluvial Processes concepts.
   - Recognize the variety of written communication opportunities
   - Utilize appropriate terminology

6. **Construct** and curate skills and attributes expected for individuals working and interacting within the Geosciences.
   - Identify and self-reflect on the skills and attributes of Geoscientists
   - Confidently and effectively communicate using appropriate and concise language and terminology
   - Mobilizing and transcribing knowledge and skills

For more information see the following links:

University of Guelph, learning outcomes and Geography, learning outcomes

CourseLink Page and UofG Email/ID

There is a course webpage on CourseLink. To access this resource, use your central account ID and password. This is the same login ID and password that is used to access your University of Guelph email and WebAdvisor. CourseLink can be accessed from the University’s homepage.

In the event that livestreamed lectures are available, you must have a Zoom account (free) setup with your UofG email address, this is a security feature that has been instituted by the university. If you’ve used/accessed Zoom lectures using a non-UofG email in the past, that will not work in GEOG*3000 this semester.

Lecture slides are available on D2L (CourseLink) as pdf files. These are OUTLINE slides; attendance during lectures is beneficial to your overall comprehension of the material – plus fun stuff happens at lectures! To the best of my abilities, I will record our lectures and make them available via CourseLink within 24hrs of the lecture.

Textbook

We will use the text every week.

Wohl, Ellen (2020) Rivers in the Landscape, 2\textsuperscript{nd} Edition, Wiley, p 500 (plus colour plates). **Be sure you get the 2\textsuperscript{nd} edition, there are significant differences, and the 1\textsuperscript{st} edition is NOT an adequate text.**

I am using the print version of the text, there is an e-text option as well. If you see yourself pursuing river science as a professional, I highly recommend you invest in the print version of this text to include in your personal library.
Print copies are available via Amazon (~$75-90). Used copies of the text are available on Amazon (~$42 - $80), as well it is possible to rent the e-text ~$73 (e.g., wiley.com (make sure you select Canada to get the price in CDN$)). I am working on getting a copy into Course Reserves in the library.

In addition to the text, I have scanned two chapters from another book – River Processes: An Introductions to Fluvial Dynamics (ch 1 & ch 6) by André Robert (2003) – these are available in the Lecture Materials section of CourseLink.

Finally, from time to time there are additional articles (short) that will be part of the materials used in our course, these will also be posted in the appropriate Lecture Materials folder.

**Evaluation**

The final grade will be assessed on quizzes completed, lab & field assignments, and quizzes and cumulative final exam, in summary:

- Quizzes (2 total) 18%
- Assignments (5 Labs & Field Trip Report) 50%
- Final Exam (cumulative, scheduled in final exam period) 32%

*Failure to complete all of the assignments and pass the final may result in failure in the course

**Quizzes**

There are two quizzes worth 9% each that are online, open book (but completed on your own). These quizzes focus on course concepts and are used to replace a midterm. There will be a window in which you can complete each quiz (over a weekend), once started you will have 25 minutes to complete the quiz. In addition, if you get 60% or better on your first attempt, you will be given a second attempt, your highest score will be recorded.

**Lab Assignments**

There are five lab assignments in this course (see lab schedule below) that are worth 5-10% of your final grade. The first two labs (week 1 and 3) will definitely be online via Teams, these lab meetings will not be recorded. Labs are due one week after they are presented, by 11:59pm to the CourseLink dropbox. You are expected to make use of Excel for computational and analytical purposes, your work needs to be your own original work for this course – you are not permitted to re-use material from other courses / projects. Attendance in labs is mandatory; the TA will be recording attendance at each lab meeting. The TA will not respond to emails from students who fail to regularly attend labs.

**Field Trip Project**

In mid-October (likely Oct 16) a field trip is planned to Silver Creek and the Credit River to examine a number of key fluvial features. The report (project) is worth 10% of your final grade and is due to the CourseLink dropbox by December 3, 2021 11:59 pm. More info about the field trip and report will be shared in week 1 and on CourseLink.

**Lab Fee**

There is a lab fee of $20.00, which covers the cost of field trip and most* of the lab materials; this is due to your lab instructor before the end of the day on October 1, 2021.

*The Department of Geography, Environment & Geomatics highly values lab and field experiences and as such sets aside funds each year to supplement these important learning opportunities, even with this as a permanent budget item, we still need to collect a lab fee.

***UNLESS CLEARLY STATED OTHERWISE, ALL SUBMITTED MATERIALS ARE COMPLETED INDEPENDENTLY AND MUST BE YOUR ORIGINAL WORK***
Turnitin
In this course we use Turnitin integrated with the CourseLink Dropbox tool to detect potential plagiarism, unauthorized collaboration, and/or copying as part of the ongoing efforts to maintain academic integrity at the University of Guelph. All materials submitted to the Dropbox will be included as source documents in the Turnitin.com reference database solely for the purpose of detecting inappropriate use. Use of the Turnitin.com service is subject to the Usage Policy posted on the Turnitin.com site. A major benefit of using Turnitin is that students will be able to educate and empower themselves in preventing academic misconduct. In this course you may screen your own assignments through Turnitin as many times as you wish before the due date. You will be able to see and print reports that show you exactly where you have properly and improperly referenced outside source and materials in your assignment. Please contact me if you have questions or concerns about this software.

Online Behaviour
Inappropriate online behaviour will not be tolerated. Examples of inappropriate online behaviour include:

- Posting inflammatory messages about your instructor, TA and/or fellow students
- Using obscene or offensive language online
- Copying or presenting someone else's work as your own
- Adapting information from the Internet without using proper citations or references
- Buying or selling term papers or assignments
- Posting or selling course materials to course notes websites
- Having someone else complete your quiz
- Completing a quiz for/with another student when collaboration is not permitted
- Stating false claims about lost quiz answers or other assignment submissions
- Threatening or harassing a student, TA and/or instructor online
- Discriminating against fellow students, instructor and/or TA
- Using the course website to promote profit-driven products or services
- Attempting to compromise the security or functionality of the learning management system
- Sharing your username and password
- Recording lectures without the permission of the instructor
**Schedule and Important Dates**

Lectures, MWF time 9:30-10:20am, please refer to WebAdvisor for Lab times

**Final Exam:** This is cumulative, Monday December 6, 2021 8:30-10:30am

Fall 2021 Lecture Schedule – this is subject to change due to class pace

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Lecture Topic</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Fri Sept 10</td>
<td>Course Intro, logistics and learning outcomes, labs, Field Trip Project</td>
<td>CourseLink Info, Outline</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>Basic Principles, Pathways &amp; Connectivity</td>
<td>Ch 1 Robert**, Ch 1 Wohl</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Fluvial System</td>
<td>Ch 2 Wohl</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Water Dynamics</td>
<td>Ch 3 Wohl</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Flow Regime</td>
<td>Ch 3 Wohl</td>
</tr>
<tr>
<td></td>
<td>Oct 11</td>
<td>Thanksgiving – no class (rescheduled to Dec 3)</td>
<td></td>
</tr>
<tr>
<td>5-7</td>
<td></td>
<td>Fluvial Sediment &amp; Carbon Dynamics</td>
<td>Ch 4 &amp; 5</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>Sediment Transfer Dynamics</td>
<td>Ch 4 &amp; 5</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>Bedforms</td>
<td>Ch 4 &amp; 5</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>Channel Form, Behaviour &amp; Adjustment, Geomorphic Units</td>
<td>Ch 6</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>Channel Form, Behaviour &amp; Adjustment, Geomorphic Units</td>
<td>Ch 6</td>
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<tr>
<td>10</td>
<td></td>
<td>Extra-channel Environments</td>
<td>Ch 7</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>Rivers in the Landscape</td>
<td>Ch 8</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>Rivers in the Landscape &amp; Aquatic Habitats</td>
<td>Ch 8 &amp; Ch 6 Robert**</td>
</tr>
</tbody>
</table>

**Chapters from Robert are scanned and available via CourseLink under Lecture Materials for the associate week the readings are assigned**

<table>
<thead>
<tr>
<th>Lab/Assignment</th>
<th>Date</th>
<th>Topic</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Via Teams</td>
<td>Mon Sept 13 or Fri Sept 17</td>
<td>Drainage Network Surveys (5%)</td>
</tr>
<tr>
<td>2</td>
<td>Via Teams</td>
<td>Mon Sept 27 or Fri Oct 1</td>
<td>Flow Regime Analysis (10%)</td>
</tr>
<tr>
<td></td>
<td>Oct 11</td>
<td>No labs or office hours</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Field Trip</td>
<td>Oct 16</td>
<td>Silver Creek Field Trip (10%)</td>
</tr>
<tr>
<td>4</td>
<td>Hutt 020</td>
<td>Mon Oct 18 or Fri Oct 22</td>
<td>Turbulence (10%)</td>
</tr>
<tr>
<td>5</td>
<td>Eramosa River</td>
<td>Mon Nov 1 or Fri Nov 5</td>
<td>Rapid Geomorphic Assessments (5%)</td>
</tr>
<tr>
<td>6</td>
<td>Location tba</td>
<td>Mon Nov 15 or Fri Nov 19</td>
<td>Sediment Transfer Experiments (10%)</td>
</tr>
</tbody>
</table>

**How to succeed in this course**

I believe success is possible in anything you set your mind to, therefore starting this class and each task associated with it with an engaged, positive and excited attitude puts you well on your way to an excellent experience. There are some other things that will also help you to succeed. Come to class prepared to participate; ask questions; complete your assignments, read them over, read the questions, did you answer and address all the issues? When you are proud of your assignment, hand it in. Talk to me about your assignments; before you hand them and after you get feedback on them. Discussing issues in class, in the hall, in the lab or wherever, often makes the point and the issue clearer than just considering it once. Learning and comprehending concepts is not done through memorization, I rarely test memory, I want to know that you understand and can relate the concept back to me or to someone else. However, in order to do these things, you need to have a set of tools that often include vocabulary, so these tools will be important to your success. Have fun, I always remember fun things, and events that were mediocre or uninteresting I easily forget. If you come with the right attitude, I will do my best to make this a fun, interesting and exciting class.
Lab discussion/email
A separate discussion board for labs will be set up on CourseLink so that if you have questions related to the lab you can post a message there and either someone in the class or TA or myself can answer it. It will also serve as a repository for FAQs, so if you have a question, check here first to see if an answer has been posted. Please do this rather than e-mail your TA directly.

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.

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 the last day of classes in the semester (December 3, 2021). 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 Student Accessibility Services as soon as possible.

For more information, contact SAS at 519-824-4120 ext. 56208 or email csd@uoguelph.ca or see the Student Accessibility Services 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.

**Documentation of Illnesses**
Medical notes will not normally be required for singular instances of academic consideration, although students may be required to provide supporting documentation for multiple missed assessments or when involving a large part of a course (e.g., final exam or major assignment).

For information on current safety protocols, please refer to the UofG COVID Return Campus website. Please note, these guidelines may be updated as required in response to evolving University, Public Health or government directives

**Disclaimer**
Please note that the ongoing COVID-19 pandemic may necessitate a revision of the format of course offerings, changes in classroom protocols, and academic schedules. Any such changes will be announced via CourseLink and/or class email. This includes on-campus scheduling during the semester, mid-terms and final examination schedules. All University-wide decisions will be posted on the COVID-19 website ([https://news.uoguelph.ca/2019-novel-coronavirus-information/](https://news.uoguelph.ca/2019-novel-coronavirus-information/)) and circulated by email.