1 INSTRUCTIONAL SUPPORT

1.1 Instructor

Instructor: Andrea Bradford, Ph.D., P.Eng.
Office: THRN 1342, ext. 52485
Email: abradfor@uoguelph.ca
Office hours: Please arrange an appointment by email

2 LEARNING RESOURCES

2.1 Course Website

Course material and announcements will be regularly posted to the CourseLink site. You are responsible for checking the site regularly.

2.2 Required Readings

1. Required readings will be assigned throughout the term.

2.3 Recommended Resources


3 ASSESSMENT

3.1 Dates and Distribution

Literature Search: 5%. Week 3.
Seminar Assignments: 15% Short written submissions. Choose 3 out of 6 over the course of the term.
Individual Topic: 30%

Presentation of Case Study OR Development of a Quantitative Assignment: 20%. Week 10 to 12.
Oral Exam: 30%. Week of December 9, 2013

3.2 Course Grading Policies

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 in writing, with your name, id#, and e-mail contact. See the graduate calendar for information on regulations and procedures for Academic Consideration:
http://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/sec_d0e1400.shtml

Accommodation of Religious Obligations: If you are unable to meet an in-course requirement due to religious obligations, please email the course instructor within two weeks of the start of the semester to make alternate arrangements. See the undergraduate calendar for information on regulations and procedures for Academic Accommodation of Religious Obligations:
http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-accomrelig.shtml

Passing grade: In order to pass the course, students must obtain a grade of 60% or higher.

3.3 Description of Evaluation Components

To better understand my expectations for the evaluation components of this course, you may find it helpful to review the learning objectives provided in the graduate calendar:
http://www.uoguelph.ca/registrar/calendars/graduate/current/geninfo/geninfo-lo.shtml
4 AIMS & OBJECTIVES

4.1 Course Description
The course addresses processes at the interface between ecology and hydrology and associated applications in environmental engineering and management.
Prerequisite(s): ENGG 6860 recommended

4.2 Course Aims
This course aims to increase interdisciplinary insights by placing emphasis on interactions and feedbacks between ecological systems and the hydrological cycle. The main goals of the course are to help students (1) expand knowledge of water resources management for ecosystem protection and (2) apply knowledge to enhance functions of natural systems for benefit of society.

4.3 Learning Objectives
At the successful completion of this course, the student will have demonstrated the ability to:
1. Demonstrate a breadth of understanding of the emerging discipline of ecohydrology.
2. Apply principles related to flows of water, energy, matter
3. Utilize knowledge of ecohydrological principles and processes to evaluate approaches for sustainable management of water resources.
4. Apply ecohydrological principles and processes to advance ecological engineering designs
5. To recognize ecosystem interconnections and to demonstrate an ability to integrate knowledge and methods of interpretation from disciplines including hydrology, hydraulics, geomorphology, water quality, aquatic ecology, and to demonstrate an ability to operate across disciplinary boundaries

4.4 Instructor’s Role and Responsibility to Students
The instructor’s role is to develop and deliver course material in ways that facilitate learning for a variety of students. Selected lecture notes will be made available to students on CourseLink but these are not intended to be stand-alone course notes. During lectures, the instructor will expand and explain the content of notes and provide example problems that supplement posted notes. Scheduled classes will be the principal venue to provide information and feedback for assignments and project.

4.5 Students’ Learning Responsibilities
Students are expected to take advantage of the learning opportunities provided during scheduled class times. Students, especially those having difficulty with the course content, should also make use of other resources recommended by the instructor. Students who do (or may) fall behind due to illness, work, or
extra-curricular activities are advised to keep the instructor informed. This will allow the instructor to recommend extra resources in a timely manner and/or provide consideration if appropriate.

**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.

**Recording of Materials:** Presentations which are made in relation to course work—including lectures—cannot be recorded in any electronic media without the permission of the presenter, whether the instructor, a classmate or guest lecturer.

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5  **TEACHING AND LEARNING ACTIVITIES**

5.1  **Class Time and Location**

**Lectures/Seminars:**

| Wednesday | 9:00 am – 12:00 pm | THRN 1427 |

5.2  **Class Schedule**

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<tr>
<th>Week</th>
<th>Lecture/Seminar Topics</th>
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<tbody>
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<td>1</td>
<td>What is Ecohydrology? Scale and other Challenges</td>
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<tr>
<td>2</td>
<td>Environmental Flows – Natural Flow Regime</td>
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<td>3</td>
<td>Nutrient Processing, Floodplains and Wetlands</td>
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<td>4</td>
<td>Environmental Flow Methods</td>
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<td>5</td>
<td>Protecting/Restoring Wetland Functions</td>
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<td>6</td>
<td>Groundwater Dependent Ecosystems</td>
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<td>EH and Natural Treatment Systems</td>
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<td>8</td>
<td>EH for More Resilient Cities</td>
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<td>9</td>
<td>EH for Mitigating Global Change</td>
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<td>10</td>
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<td>Case Studies</td>
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<td>12</td>
<td>Case Studies</td>
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5.3  **Other Important Dates**

**Drop Date:** The last date to drop one-semester courses, without academic penalty, is **Thursday October 31, 2013**. Refer to the Graduate Calendar for the schedule of dates: [http://www.uoguelph.ca/registrar/calendars/graduate/current/sched/sched-dates-f10.shtml](http://www.uoguelph.ca/registrar/calendars/graduate/current/sched/sched-dates-f10.shtml)
6 LAB SAFETY

Safety is critically important to the School and is the responsibility of all members of the School: faculty, staff, and students. As a student in a lab course you are responsible for taking all reasonable safety precautions and following the lab safety rules specific to the lab you are working in. In addition, you are responsible for reporting all safety issues to the laboratory supervisor, GTA or faculty responsible.

7 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.

7.1 Resources

The Academic Misconduct Policy is detailed in the Graduate Calendar:
http://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/sec_d0e1687.shtml

A tutorial on Academic Misconduct produced by the Learning Commons can be found at:
http://www.academicintegrity.uoguelph.ca/