

TUTORIALS

You will have 4 assignments during the term, worth 30% of the final grade. You will be given problem sheets during your tutorial and TAs will instruct you on how to complete the practical assignments. Practical assignments are due on the dates shown in the schedule below. All practicals are due to your TA at the START of your practical time slot, except practical #4, which is due to Prof. Mitchell at the START of the last lecture of the year. The final project is due at the START of the Nov. 25 lecture to Prof. Mitchell. More details on the tutorials will be circulated during the term. **Attendance at tutorials is mandatory**, and tutorial #0 is crucial for getting information: you must attend!

You should use a word processor for your written responses. Your document should conform to the following: 25.4 mm margins, single-spaced, 12-point print size. The document must bear a handwritten name, signature, date and student number. Calculations may be handwritten.

COURSE TEXT

"Environmental Hydrology" by Ward and Trimble, in the Bookstore. This book will provide a good background for course material, but you are very well-served by attending each and every lecture. The very point of having a course taught to you (and not just reading a book) is the broader understanding, examples, and clarification that can be provided by your professor. You will be glad that you purchased the book, and if you ever do anything hydrologic again, you will be glad you kept it.

All supplementary readings will be available online for free or through short-term loan in the library. The exact readings will be announced in class one week prior to the specific lecture and listed on Blackboard.

MISSED TESTS/LATE PENALTIES FOR PRACTICALS

Make-ups will not be given for the mid-term test. If you miss the test for a verifiable reason (i.e. you have a Doctor's note) and/or if you have made provisions regarding the mid-term prior to it being conducted, the weight of the mid-term will be added to the weight of your final exam. If you simply "miss" the mid-term, you will receive a mark of zero for it.

Late assignments and final projects will be penalized at a rate of 10%/day and will not be accepted after being 5 days late. If you fail to hand in your assignment on time during your tutorial slot, you will be assessed a late penalty.

INTERACTION WITH THE PROFESSOR AND TEACHING ASSISTANTS

Professor Mitchell strongly encourages you to come to see him and speak with him about any facet of the course, portions you are having difficulty with, and things you found particularly interesting; all during his office hours (above) and/or immediately following class. He very much enjoys speaking with students about Hydrology. Your TA(s) also have office hours and you should take advantage of these for questions pertaining to your laboratory assignments. Neither Professor Mitchell nor the TA(s), however, will answer point-blank questions about specific questions on assignments, especially just prior to them being due. If you attend all lectures and all laboratories in an attentive manner, you should have little problem in completing excellent assignments, performing well on the mid-term, and completing a stellar project.

Each and every student is expected to attend EVERY lecture. Professor Mitchell will not re-teach an entire class to someone because they missed it. Please rely on your fellow colleagues in the class for missing notes. Lecture slides will be posted on Blackboard, but little of what Professor Mitchell may "say" will actually be on those slides. Lecture slides are posted to facilitate your learning DURING lecture and for you to avoid having to, for example, copy large diagrams while you should be taking notes or listening. All lecture notes will be posted on the Blackboard prior to each scheduled lecture.

Email policy: If at all possible, every effort should be made to meet, in person, with either Professor Mitchell or the TA(s) for questions pertaining to the course and assignments. Short emails will usually be answered with appropriate, short responses. Long, drawn out questions and/or questions pertaining to very general subjects, which are likely to be of interest to the entire class, should be posted on the Blackboard (Discussion Board module) so that the entire class may benefit from the answer. All emails should be sent via a ".utoronto.ca" or ".utoronto.ca" email address. Emails from other domains will likely be lost to spam filters and not responded to. Emails are responded to only on Tuesdays and Thursdays between 4 and 5 pm.

LECTURE OUTLINE / SCHEDULE

DATE	LECTURE CONTENT	
Sept. 16	Ground Rules, Introduction, the Historical Development of Hydrology, and Some Basic Concepts in Hydrology Reading: Text: Chapter 1, pages 1-10.	
Sept. 23	Basic Concepts in Hydrology, Hydrological Quantities, and The Hydrological Cycle Reading: Remainder of Chapter 1; Chapter 14, pages 389-393; Appendix A (pages 429-430).	NON-CREDIT PRACTICAL
Sept. 30	Global Energy and Surface Radiation Balance, Precipitation, Interception and Throughfall Reading: All of Chapter 2; Chapter 10, pages 295-297.	PRACTICAL #1 THIS WEEK.
Oct. 7	Snow, Snowmelt, and Frozen Ground Reading: Chapter 10, pages 291-301 and supplementary reading.	
Oct. 14	Soil Properties and Infiltration Reading: Text, chapters 6 and 8.	PRACTICAL #1 DUE. PRACTICAL #2 THIS WEEK.
Oct. 21	Evapotranspiration Reading: All of Chapter 4.	
Oct. 28	Midterm (1 hour; in class); Runoff and Streamflow I Reading: All of Chapter 5. Note: reading for this lecture is NOT on the mid-term!	
Nov. 4	Runoff and Streamflow II Reading: All of Chapters 5 and 6.	PRACTICAL #2 DUE. PRACTICAL #3 THIS WEEK.
Nov. 11	Sediment Transport and Erosion Reading: All of Chapter 9.	
Nov. 18	Water Quality and Biogeochemistry Reading: None	PRACTICAL #3 DUE. PRACTICAL #4 THIS WEEK.
Nov. 25	Hydrology in the Urban Context Reading: Various from Chapter 12.	MAJOR PROJECT DUE.
Dec. 2	Human Alteration of the Hydrological Cycle Reading: All of Chapter 12.	PRACTICAL #4 DUE.

BLACKBOARD INFORMATION

Logging in to your Blackboard Course Website

Like many other courses, EESB04 uses Blackboard for its course website. To access the EESB04 website, or any other Blackboard-based course website, go to the UofT portal login page at <http://portal.utoronto.ca> and log in using your UTORid and password. Once you have logged in to the portal using your UTORid and password, look for the My Courses module, where you'll find the link to the EESB04 course website along with the link to all your other Blackboard-based courses.

Activating your UTORid and Password

If you need information on how to activate your UTORid and set your password for the first time, please go to <http://www.utorid.utoronto.ca>. Under the "First Time Users" area, click on "activate your UTORid" (if you are new to the university) or "create your UTORid" (if you are a returning student), then follow the instructions. New students who use the link to "activate your UTORid" will find reference to a "Secret Activation Key". This was originally issued to you when you picked up your Tcard at the library. If you have lost your Secret Activation Key you can call 416-978-HELP or visit the Help Desk at the Information Commons on the ground floor of Robarts Library to be issued a new one. The course instructor will not be able to help you with this. 416-978-HELP and the Help Desk at the Information Commons can also answer any other questions you may have about your UTORid and password.

Email Communication with the Course Instructor

At times, the course Instructor may decide to send out important course information by email. To that end, all UofT students are required to have a valid UofT email address. You are responsible for ensuring that your UofT email address is set up AND properly entered in the ROSI system. You can do that by using the following instructions:

To submit the information to activate your UTORid and password (see above), you will need to click the "Validate" button. Follow the instructions on the subsequent screens to receive your utoronto.ca address. Once you have your UofT email address, go to the ROSI system (www.rosi.utoronto.ca), log in and update the system with your new UofT email address.

You can check your UofT email account from

1. The UofT home page <http://www.utoronto.ca>: From the Quick Links menu on the top right, choose "my.utoronto.ca". Enter your UTORid and password, and when the Welcome page opens, click "WEBMAIL".
2. Email software installed on your computer, for example Microsoft Outlook or Mozilla Thunderbird. Visit the Help Desk at the Information Commons or call 416-978-HELP for help with the set up.

Forwarding your utoronto.ca email to a Hotmail, Gmail, Yahoo or other type of email account is not advisable. In some cases, messages from utoronto.ca addresses sent to Hotmail, Gmail or Yahoo accounts are filtered as junk mail, which means that emails from your course instructor may end up in your spam or junk mail folder.

You are responsible for:

1. Ensuring you have a valid UofT email address that is properly entered in the ROSI system
2. Checking your UofT email account on a regular basis.

STUDENT CODE OF CONDUCT

Please arrive promptly for lecture and do not forget to turn off cell phones and laptops. You are fully expected to abide by the Code of Student Conduct as set out by The Governing Council at the University of Toronto (<http://www.utoronto.ca/govcncl/pap/policies/studentc.html>). This document defines the standards by which students are to conduct themselves within class and within the University community at large. Please be advised that misconduct of any form will not be tolerated in this class. This includes plagiarism on tests, assignments, projects, and exams, which will be strictly enforced and is easily detected. If you have further questions regarding what constitutes plagiarism or other academic offences, feel free to speak with Prof. Mitchell or your TA.

SOME FINAL WORDS OF ADVICE

This course is only moderately technically demanding (some of you may not agree entirely!), but there are plenty of things that will be unfamiliar, at least in the context of Hydrology. It is difficult to "crash and burn" because of the large number of elements in the course. It is, however (and for the same reason), a considerable task to maintain a high standard. You cannot do really well if you do very poorly on any element, so be vigilant: a really bad mid-term, for example, can make a difference of a whole letter grade to your final mark.