

University of Toronto at Scarborough
“PRINCIPLES OF HYDROLOGY”
(EES B04H3F, Fall 2009)

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Office Hours: Thursdays, 3-5pm and by appointment.

Teaching Assistant s: TBA

Course Web Site: Everything on Blackboard (<https://portal.utoronto.ca>)

Lecture Time: Wednesday, 09H00 - 11H00; HW-215

Practical Times: Wednesday, 11H00 - 13H00; HW-402
Wednesday, 15H00 - 17H00; AC-332
Thursday 11H00 - 13H00; PO-101

Text: "Environmental Hydrology, 2nd Edition"
[Authors: Andy D. Ward and Stanley W. Trimble; Publisher: Lewis Publishers, 475pp.]

INTENT OF THE COURSE

Hydrology is the study of the occurrence, circulation, and distribution of water on the earth and in its atmosphere. The course is intended to be a comprehensive introduction to how water moves through terrestrial systems, both “naturally” and as a result of human alteration of the environment. Simply put, water is the source of life. When NASA goes looking for life on other planets, what is the first thing they look for? Water! Water is also a powerful buffer for energy - that is it takes very large amounts of energy either to heat water up or to evaporate it. How much water is stored at the surface therefore strongly affects the temperature of the surface, the temperature of the air above it and its behaviour. After introducing some of the fundamental concepts in hydrology, considerable focus will be placed on the interaction between water on the surface and water in the air, or atmosphere. Given the current concern about climate change, these surface-atmosphere interactions are of crucial importance globally. The hydrology of a system determines not only the temperature of the air above it, but also how much water vapour gets into the airmass by evaporation. This is another enormously important control on climate and

TUTORIALS

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>

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.