

**Office Hours:** Wednesdays, 9-11 am; HW-214  
Mondays, 1-2 pm and by appointment. (Wednesdays noon-1:30pm for EESA01)  
**Course Web Site:** Everything on Blackboard (<https://portal.utoronto.ca>)  
**Teaching Assistants:** To Be Announced (TBA)  
**Practical Times:** Tut01: Wednesdays, 11am-1pm, Room AA205  
Tut02: Wednesdays, 3-5pm, Room AA208  
Tut03: Thursdays, 11am-1pm, Room BV363  
**Text:** "Introduction to Physical Hydrology"  
[Author: Martin R. Hendriks; Publisher: Oxford, 331pp.]

## 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.

Science Research Building, for example. **Note that you WILL be going outside (rain or shine) during your tutorial. Please dress accordingly (jackets and a decent pair of flat shoes are the minimum recommended).** In addition to this, you will be given assignments during your tutorial and TAs will instruct you on how to complete any necessary fieldwork and accompanying problem sets. Assignments are due on the dates shown in the schedule below. All assignments are due to your TA at the START of your tutorial time slot, except practical #4, which is due to Professor Mitchell at the START of the last lecture of the year. **Attendance at tutorials is mandatory**, and tutorial #0 is crucial for getting information: you must attend! Part of the mark on your assignment (typically 10%) will be devoted to your attendance and active participation in tutorial exercises. Note that although tutorial rooms are included in this syllabus, sometimes they change the room without notifying anyone (often not even me). I will do my best ahead of time to let you know if rooms change. 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**

"Introduction to Physical Hydrology" by Martin Hendriks, in the Bookstore. This is a new book selection for this course and I would highly recommend that you do NOT rely on previous texts I have used in this course. "Introduction to Physical Hydrology" is a relatively straightforward textbook that focuses on broad understanding, but also has more of the essential physical basis, something that was missing in last year's text. As far as textbooks go, it is relatively inexpensive (~\$50). 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.

**As far as your evaluations in this course goes (i.e., tests and exams), both assigned readings AND all lecture material is fair game.**

### **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 or have made provisions for a VERY good reason with the professor **PRIOR** to the mid-term), 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. There will be no exceptions.

Late assignments will be penalized at a rate of 20%/day and assignments more than one day late will simply not be accepted. In short, **if you are MORE than one day late, you will get a zero on the as**



## LECTURE OUTLINE / SCHEDULE

DATE	LECTURE CONTENT
Sept. 14	Ground Rules, Introduction, the Historical Development of Hydrology, and Some Basic Concepts in Hydrology  Reading: Chapter 1
Sept. 21	

