University of Toronto Scarborough  
Department of Physical and Environmental Sciences  
EESB02H3 S – Principles of Geomorphology  
2014 Outline

Instructor: Mandy Meriano  
Office: SW627C  
Telephone: 416-208-2775  
Office hours: Tuesday 11 am - 2 pm  
Email: mmeriano@utsc.utoronto.ca

Lecture time: Tuesday 9 am to 11 am  
Location: BV260

Practical times: Thursday 11:00 –13:00; 13:00 – 15:00; 15:00 – 17:00  
Location: SW313 and computer lab (location TBA)  
Field component of the practicals will be carried out in Highland Creek  
Emphasis is placed on practical work in this course, which will involve some time commitment. However, this is reflected positively in your final grade

Teaching Assistant: Carlos Paulo and Veronika Shirokova  
Office and office hours: TBA on the course Portal  
Lab coordinators: Chai Chen and Tom Meulendyk, PO103, Room 122

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The course textbook is available from the UTSC Bookstore.

DESCRIPTION: The earth’s surface form and its dynamic behavior at range of spatial and temporal scales is an integral part of the physical, biological and human environment. It is strongly influenced by human activity, while at the same time imposing severe constraints upon that activity. The study of the earth’s surface forms and their morphodynamic behavior, both naturally and under the impact of human habitation, is the field of Geomorphology. It is the human interaction with the surface of the earth that gives rise to a number of environmental concerns: e.g., surface erosion, catastrophic floods, sea-level rise, landslides, water resources and water extraction, etc. This introductory course combines aspects of geology, climatology, hydrology, and soil science to present a coherent introduction to the surface of the Earth, with emphasis on
both fundamental concepts and practical applications, as a basis for understanding and intelligent management of the Earth's physical and chemical environment.

LEARNING OBJECTIVES: By the end of the course students will have developed a coherent understanding of the various aspects of geology, climatology, hydrology, and soil science that shape the surface of the Earth, with emphasis on both fundamental concepts and practical applications, as a basis for understanding and intelligent management of the Earth's physical and chemical environment.

MARKING SCHEME (tentative): Four practicals; value 40% (4 x 10%); flume experiment to be conducted at the Department Geography downtown: value 5%; a midterm exam: value 20%; and a final exam: value 35%.

The midterm is based on material covered in lectures and readings up to and including the class before the midterm exam. Readings will be from your course textbook: Trenhaile (2013).

The final exam will be based on all term material (including readings and lectures). Readings will be from your course textbook: Trenhaile (2013).

TENTATIVE LECTURES

Week 1: January 07 Physics and chemistry of the Earth's surface
Week 2: January 14 The solid materials of the Earth's surface
Week 3: January 23 Topography
Week 4: January 28 Rivers
Week 5: February 04 Groundwater (fluvial hydraulics - flume basics)
Week 6: February 11 Mid-term exam held during class time

February 17 – 21 Reading Week
Week 7: February 25 Flume visit (Department of Geography)
Week 8: March 04 Glaciers (Prof. Greenwood:)
Week 9: March 11 Lakes
Week 10: March 18 Mass Wasting and deserts
Week 11: March 25 Coasts
Week 12: April 01 Landscapes and/or Physical and chemical cycles
PLAGIARISM: Assignments are checked for plagiarism. Please consult the University Calendar for a discussion and outline of the policy on plagiarism and academic integrity (also see proceeding section below). The sanctions can be severe. If, after reviewing the University policy, you are uncertain about what constitutes plagiarism, talk to your course instructor.

ACADEMIC INTEGRITY: Academic integrity is essential to the pursuit of learning and scholarship in a university, and to ensuring that a degree from the University of Toronto is a strong signal of each student’s individual academic achievement. As a result, the University treats cases of cheating and plagiarism very seriously. The University of Toronto’s Code of Behaviour on Academic Matters (http://www.governingcouncil.utoronto.ca/policies/behaveac.htm) outlines the behaviours that constitute academic dishonesty and the processes for addressing academic offences. Potential offences include, but are not limited to:

In papers and assignments:

- Using someone else’s ideas or words without appropriate acknowledgement.
- Submitting your own work in more than one course without the permission of the instructor.
- Making up sources or facts.
- Obtaining or providing unauthorized assistance on any assignment.

On tests and exams:

- Using or possessing unauthorized aids.
- Looking at someone else’s answers during an exam or test.
- Misrepresenting your identity.

In academic work:

- Falsifying institutional documents or grades.
- Falsifying or altering any documentation required by the University, including (but not limited to) doctor’s notes.

All suspected cases of academic dishonesty will be investigated following procedures outlined in the Code of Behaviour on Academic Matters. If you have questions or concerns about what constitutes appropriate academic behaviour or appropriate research and citation methods, you are expected to seek out additional information on academic integrity from your instructor or from other institutional resources (see http://www.utoronto.ca/academicintegrity/).

Please consult the University Calendar for information about grade distribution and academic conduct.

ABSENCES: If you need to miss a practical or term test for any legitimate reason, you must submit appropriate documentation within three business days of your absence. If the reason for your absence is medical, an official UTSC medical note must completed
by a doctor who examined you while you were ill/injured (i.e. not after the fact). The medical note can be downloaded at:
http://www.utsc.utoronto.ca/~registrar/resources/pdf_general/UTSCmedicalcertificate.pdf. Note that conditions ranked as mild or negligible will not be considered a valid excuse.

**MISSED TERM WORK:** If a legitimate reason prevents you from submitting a piece of term work by its posted deadline, you must submit appropriate documentation within **three** business days of your absence. If the reason is medical, an official UTSC medical note must completed by a doctor who examined you while you were ill/injured (i.e. not after the fact). The medical note can be downloaded at:
http://www.utsc.utoronto.ca/~registrar/resources/pdf_general/UTSCmedicalcertificate.pdf. Note that conditions ranked as mild or negligible will not be considered a valid excuse.

**HANDING IN ASSIGNMENT:** You are responsible for making sure that your TA receives your work. Students who mail assignments in, place work on the floor outside an office, or slip assignments under a door, do so at their own risk.

**LOST OR MISPLACED ASSIGNMENT:** It is your responsibility to keep a photocopy of your work, and to make more than one copy of your work. Excuses are not accepted in the case of lost or misplaced work.

**ACCESSABILITY:** Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodation, please feel free to approach me and/or the AccessAbility Services Office as soon as possible. I will work with you and AccessAbility Services to ensure you can achieve your learning goals in this course. Enquiries are confidential. The UTSC AccessAbility Services staff (located in S302) are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations (416) 287-7560 or ability@utsc.utoronto.ca.

Students are encouraged to review the Calendar for information regarding all services available on campus.