

## ENV100Y5Y Environment

### Syllabus and Course Information 2016-17

#### Course Description

Course	The Environment <a href="#">ENV100Y5Y</a> (SCI)
Description	This introductory environmental science course examines large-scale features of Earth, natural hazards, Earth's climate and weather systems, energy and mineral resources, human population growth, extinction and biodiversity, environmental toxins, vanishing soils and expanding deserts, forests, urban environmental management, and food resources. Interdisciplinary interaction among Science, Social Science, and Humanities is a major theme.
Meeting times and locations	<p><b>LEC0101 (in-class):</b> Lectures MWF 11–12 in Rm. IB-120.</p> <p><b>LEC9999 (online):</b> Lectures will be archived for viewing online at your discretion. They are usually posted online about two hours after the class has ended. For LEC9999 students, on-campus attendance at UTM is required <u>only</u> for the Term Test (to be scheduled during the December Exam Period) and the Final Exam (to be scheduled during the April Exam Period). <b>You are welcome to attend class in person, but please wait until at least the third week of class;</b> otherwise there will not be a seat available for you and it is against fire regulations to have too many people in the classroom.</p> <p>All students will have access to the online lecture archive. They are not time-limited and are available for later study purposes. Instructions for accessing them will be provided.</p>

#### Instructor Information

	We maintain an active presence on the Discussion Board on our course Blackboard site.
Co-Instructor	<b>Barbara Murck</b> , Ph.D. Associate Professor, Teaching Stream <a href="mailto:barbara.murck@utoronto.ca">barbara.murck@utoronto.ca</a>
Contact Info	Rm. DV-3270 <a href="mailto:barbara.murck@utoronto.ca">barbara.murck@utoronto.ca</a> (905) 828-5426 (e-mail contact is best)
Office hours for Prof. Murck	Open door policy. Drop by any time. (Not right before class, please.) Tuesdays I am usually off-campus. If my door is closed, it means that I am occupied, or teaching, or not currently in the office. If you are not finding me in the office at a time that is convenient for you, please e-mail to set up a specific appointment.
Co-Instructor	<b>Monika Havelka</b> , Ph.D., Associate Professor, Teaching Stream <a href="mailto:monika.havelka@utoronto.ca">monika.havelka@utoronto.ca</a>
Contact Info	Rm. DV-3260 <a href="mailto:monika.havelka@utoronto.ca">monika.havelka@utoronto.ca</a> (905) 828-5366 (e-mail contact is best)
Office hours for Prof. Havelka	Please e-mail to set up a time to meet. You are welcome to drop by unannounced, but if my door is closed, I am either occupied or not currently in the office. Skype conversations or one-on-one online chats can also be arranged by appointment.
Teaching Assistants	Contact information and TA office hours will be posted on the course website after the term starts – see “Contact Us” on our Blackboard site.

## Textbook: Required (will be available from U of T Mississauga Bookstore)

You do not need to purchase any additional items such as i-clickers, Learning Catalytics, Pearson access code, or TopHat Monocle for this course. All you need is the textbook.

The required textbook is:

*Environment: The Science Behind the Stories*, 3<sup>rd</sup> Canadian Edition, by J. Withgott, M. Laposata, B. Murck (2017), Pearson Canada, Toronto, ISBN-10: 0134378903, ISBN-13: 9780134378909.

The **print version** of the book comes with access to the digital version, as well as providing access to the publisher's online learning resources. The 1<sup>st</sup> Canadian edition is not useful, because the chapter numbers, pages, examples, and data differ significantly from the current edition. The 2<sup>nd</sup> Canadian edition is better and more up-to-date, but it still won't match the reading assignments.

The **digital version (e-book)** of the textbook is cheaper and more environmentally friendly. Numerous vendors sell the e-book. You will have greater access to the optional publisher's online resources if you purchase it from Pearson Canada [www.pearsoncanada.ca](http://www.pearsoncanada.ca) (those extra resources are optional for this course). Please make sure that you are actually purchasing the textbook and not just the "supplemental digital content," which includes only the digital supplements and not the textbook itself. Also make sure that you will have access to the e-book through at least April, 2017.

The book will also be available on **short-term reserve** in the UTM HMALC Library.

## Prerequisites

There are no prerequisites for this course. It is open to any U of T student. Many students who take this course do not have extensive background in the sciences. We fully understand this, and want you to know that is entirely possible for you to succeed in the course, with appropriate effort.

Some students who take this course are speakers of English as a second language; if English skills are a concern for you, please approach us for assistance.

## Course Rationale

Meets SCI Distribution Requirement	This is an introductory course on Environmental Science. The course serves as a SCI course for the purpose of Distribution Requirements.
Serves as a prerequisite for some courses in cognate disciplines	This course serves as an entry point into <u>some</u> upper-level courses in cognate disciplines. For example, students who have successfully completed ENV100Y5Y and have enrolled in an Environment POST are permitted to take BIO205H5 Ecology, even if they have not taken BIO152H5 and BIO153H5. A similar situation exists for courses in some other cognate disciplines, such as Geography and Earth Science. For specific information, please contact the Undergraduate Advisor in the relevant department.
Fulfills entry requirements for Environment POST	<p>Successful completion of this course is required for entry into any Environment Program of Study (POST) at U of T Mississauga. The two Environment streams are Environmental Management (HBA) and Environmental Science (HBSc).</p> <p>Please refer to UTM's current Academic Calendar for further information about the requirements for the Environmental Management and Environmental Science POST. At the end of the course we will have an information session about the programs.</p>

## Course Goals

The overall goals of ENV100Y5Y are to:

- utilize a variety of online teaching and communication tools to enrich the teaching environment and enhance the learning experience for all students in the course;
- introduce students to a range of current environmental issues; and,
- develop the abilities of students to:
  - critically analyze news, data, and other information about the natural environment and human impacts on the environment, thereby becoming more informed consumers;
  - understand the roles of various academic disciplines (mainly in Science but also in Social Science and Humanities) in enhancing and contributing to our knowledge about the natural environment and human impacts on the environment;
  - appreciate the difference between disciplinary and interdisciplinary studies;
  - approach problems from a scientific perspective;
  - undertake further studies in disciplines related to the environment; and
  - contribute more fully to life on campus and in the community as a result of their understanding of environmental science.

## Student Learning Objectives

After successfully completing ENV100Y5Y, students will be able to:

- articulate basic concepts relating to the contribution of the following disciplines to the scientific understanding of the environment:
  - Geography
  - Geology
  - Ecology
  - Biology & Biotechnology
  - Hydrology
  - Anthropology & Archaeology
  - Forestry
  - Soil Science & Agricultural Sciences
  - Chemistry
  - Physics
  - Atmospheric Science, Oceanography & Climatology
  - and cognate disciplines in Science, Social Science, and Humanities;
- use by memory, without aids, the basic terminology with which professionals in these contributing disciplines communicate their work and their research findings;
- synthesize information from a variety of disciplines, and apply it to environmental problems;
- critically analyze information presented to them in a variety of formats, including textual, graphical, pictorial, and symbolic formats;
- express, in writing, the content of their learning about specific environmental topics;
- formulate and state a hypothesis, and summarize the requirements of an experimental approach to scientific investigation;
- apply a systematic, analytical approach to problem-solving and interpretation of graphs and diagrams;
- enhance and utilize a wide range of academic skills in active listening, note-taking, studying, reading, test-taking, and communication in university-level courses.

## Communications Policy

Always use your **@mail.utoronto.ca** e-mail for course-related communications. Other e-mail addresses may be filtered as spam and we do not promise to respond to them. All e-mails must contain “ENV100Y” in the subject line, and the message must include your full name and student number. Please check the course Blackboard site and read the Course Information documents before e-mailing a question, to make sure that it hasn’t already been answered.

E-mail is not an alternative to office hours, nor should it be used to request explanations of material that you missed in lectures. Students are advised to consult [www.enough.utoronto.ca](http://www.enough.utoronto.ca) for University policies concerning the appropriate use of information and communication technology.

For course-related queries, please contact the professors or the appropriate TA. For department- or program-related queries or to submit documentation regarding a missed assignment, quiz or test, please contact Undergraduate Academic Counselor Sabrina Ferrari ([sabrina.ferrari@utoronto.ca](mailto:sabrina.ferrari@utoronto.ca)).

## Digital Expectations

Assignments and quizzes are administered online through our course Blackboard site. The (optional) question-and-answer sessions also are held using an online chat format. For these applications to function properly, **you will need to have access to a computer with a stable, reasonably fast internet connection and up-to-date browser**. We also strongly recommend that you use a hard-wired connection to complete the online quizzes and to submit assignments. Several hundred computers are available for student use on the UTM campus if you do not have personal access to a computer.

**NOTE concerning Turnitin.com:** Normally, students will be required to submit some of their assignments to [Turnitin.com](http://Turnitin.com) for a review of textual similarity and detection of possible plagiarism. In doing so, students will allow their assignment submissions to be included as source documents in the [Turnitin.com](http://Turnitin.com) reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University's use of the Turnitin.com service are described on the [Turnitin.com](http://Turnitin.com) web site.

For this course, we use Turnitin very rarely. We will let you know in advance if any assignments will be submitted through Turnitin, and additional information about Turnitin will be made available on the course Blackboard site. A guide for students is available from the University of Toronto’s Office of Teaching Advancement: <http://www.utoronto.ca/ota/turnitin/TurnitinGuideForStudents.pdf>.

## Course Format, Online Learning, and Academic Supports

The principal format for this class is lecture-based, with some opportunities for discussion and other interactions, both in person and through a variety of communication forums in the online environment. Section LEC0101 will mostly attend the lectures in person. Section LEC9999 will mostly view the lectures online. Both options are available to all students, but **for the first three weeks of class please attend the section in which you are enrolled**. Detailed instructions for accessing the online lectures will be provided on the course Blackboard site.

There are no formally scheduled labs or tutorials. We typically offer optional Facilitated Study Group sessions, available to students in all course sections. The schedule will be established after the course begins, and will be posted on the course Blackboard site. Additional optional help sessions may be provided as needed (such as “exam jams”), and will be available to students in all sections. We also provide support via the Discussion Board and online Q&A sessions. Online Q&A chat sessions are recorded and the transcripts are available to anyone in the class who is unable to join in person. The dates and times will be announced on the Blackboard site, along with instructions for accessing them. If you have language-related concerns or problems with specific academic skills, please ask one of us for help or seek assistance through UTM AccessAbility, or visit the Robert Gillespie Academic Skills Centre.

Assessment Scheme and Dates		
ITEM	WEIGHT	DATES and NOTES
<b>MODULE 1</b>		
Assignment #1	3%	Due on Friday, September 23, 2016 by 11:59 p.m.
Quiz #1	3%	To be completed between 11 am on September 30 and noon on October 1, 2016
<b>MODULE 2</b>		
Assignment #2	3%	Due on Friday, October 28, 2016 by 11:59 p.m.
Quiz #2	3%	To be completed between 11 am on November 5 and noon on November 5, 2016
<b>MODULE 3</b>		
Assignment #3	3%	Due on Friday, November 25, 2016 by 11:59 p.m.
Quiz #3	3%	To be completed between 11 am on December 2 and noon on December 3, 2016
<b>TERM TEST</b>	24%	Cumulative, Modules 1–3. This test is <b>in-person</b> for all sections. Will be scheduled by the UTM Registrar – December Exam Period 2016
<b>MODULE 4</b>		
Assignment #4	3%	Due on Friday, January 20, 2017 by 11:59 p.m.
Quiz #4	3%	To be completed between 11 am on January 27 and noon on January 28, 2017
<b>MODULE 5</b>		
Assignment #5	3%	Due on Friday, February 17, 2017 by 11:59 p.m.
Quiz #5	3%	To be completed between 11 am on March 3 and noon on March 4, 2017
<b>MODULE 6</b>		
Assignment #6	3%	Due on Friday, March 24, 2017 by 11:59 p.m.
Quiz #6	3%	To be completed between 11 am on March 31 and noon on April 1, 2017
<b>FINAL EXAM</b>	40%	Cumulative, Modules 1–6. This exam is <b>in-person</b> for all sections. Will be scheduled by the UTM Registrar – April Exam Period 2017
<b>Notes about Dates</b>		

Dates for specific lecture topics (see Course Schedule) are tentative and will likely change. Quiz dates and assignment due dates are not tentative; they will only change in an emergency. Even weather-related cancellation of classes usually doesn't necessitate changes in due dates, since all items are submitted digitally.

The Term Test and Final Exam dates will be scheduled by the UTM Registrar. The December Exam Period is December 8–20, 2016. The April Exam Period is April 6–22, 2017. **Please don't buy any plane tickets or make any irreversible plans until the exam schedules have been posted by the UTM Office of the Registrar.**

The last day to cancel (drop) a Y course from academic record and GPA or to cancel or select the Credit/No Credit option is February 21, 2017. The last date to request LWD from a Y course is March 31, 2017. Other important due dates, lecture topics, and reading assignments will be provided in the Course Schedule.

As per the University Grading Practices Policy, "After the methods of evaluation have been made known, the instructor may not change them or their relative weight without the consent of at least a simple majority of the students enrolled in the course. Any changes shall be reported to the division or the department."

## Notes and Learning Objectives for Assessment Items

**Quizzes:** There will be six quizzes, one for each Module. Quiz dates are in the Schedule and posted on the Blackboard site, with specific information and guidelines for each quiz. Quizzes are in multiple-choice format. They are not cumulative, and cover only the material presented in lectures and readings for that module. There will be online Q&A sessions before each quiz.

**All quizzes are completed online**, through our Blackboard site; **you do not need to attend in person**. Additional instructions will be provided. There will be a **25-hour window** during which you must complete each quiz. You will need to set aside at least a half-hour in which to complete the quiz – **please plan ahead to avoid conflicts**. **You can take each quiz twice**. If you are satisfied with your mark, you can stick with your first attempt. The second attempt will be a different set of questions. The **highest mark of the two attempts** will be recorded.

**Objectives:** The principal learning objectives for the quizzes are to give you an opportunity to practice what you have learned in class and in the readings, including the use of scientific terminology; and to check your progress, in preparation for the Test and Exam.

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**Term Test:** The Term Test will be cumulative, covering material from the entire first term (Modules 1–3). It will be in written-answer and/or multiple-choice format, two hours, to be scheduled by the Registrar during the **December Exam Period**. Additional information will be posted on the course Blackboard site.

**Students in both sections (LEC0101 and LEC9999) are required to write the Term Test in person and on-campus**, as scheduled by the Registrar. If you are registered in the LEC9999 section and you live more than 125 km from the campus during the term in which you are taking the course, you might be eligible to write the Term Test at an external test centre closer to your residence. Please contact Academic Counsellor Sabrina Ferrari at [sabrina.ferrari@utoronto.ca](mailto:sabrina.ferrari@utoronto.ca) if you think you might need and qualify for this service. Students will be responsible for any fees charged by the external test centre, and any shipping fees. The request must be made at least four weeks prior to the start of the exam period, preferably earlier.

**Objectives:** The principal learning objectives for the Term Test are to test your comprehension and retention of material presented in class and in the readings; and to assess your ability to communicate your understanding in written format in an organized and coherent manner.

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**Final Exam:** The Final Exam will be cumulative, covering material from the entire course (Modules 1–6). The exam will be in written-answer and/or multiple-choice format, three hours, to be scheduled by the Registrar during the **April Exam Period**. Additional information will be posted on the course Blackboard site.

**Students in both sections (LEC0101 and LEC9999) are required to write the Final Exam in person and on-campus**, as scheduled by the Registrar. If you are registered in the LEC9999 section and you live more than 125 km from the campus during the term in which you are taking the course, you might be eligible to write the Final Exam at an external exam centre closer to your residence. Please refer to the UTM Office of the Registrar for information about external exam centres, and contact them if you think you might need and qualify for this service. Students will be responsible for any fees charged by the external exam centre, and any shipping fees. The request must be made to the Office of the Registrar at least four weeks prior to the start of the exam period, preferably earlier.

**Objectives:** The principal learning objectives for the Final Exam are to test your comprehension and retention of material presented in class and in the readings; to assess your ability to communicate this understanding in an organized, coherent manner in written format; and to assess your ability to synthesize material from different parts of the course.

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**Assignments:** There will be six assignments, one for each Module. These are to be submitted digitally through our course Blackboard site; instructions will be provided. Some assignments may also be submitted through Turnitin.com; instructions will be provided on our Blackboard site.

You may complete and submit the assignments at any time after they are released to the course Blackboard

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site. Please plan ahead – it is not advisable to sit down to work on the assignment one hour before it is due.

Among the six assignments, at least one will be written; one will be quantitative; one will be map-based; and one will be graphical. A rubric will be provided for each assignment, and you will receive feedback. Assignments will be posted well in advance of the due dates (due dates are in the Schedule and Assessment Scheme).

**Objectives:** The learning objectives for the assignments are to assess your comprehension; give you an opportunity to self-test; try out typical test and exam questions; and develop your ability to communicate your understanding graphically, quantitatively, spatially, and in writing.

### How to Query or Challenge a Mark

Please note that, according to UTM policy, you have **one month from the date an item is returned to you**, during which time you may query the mark or submit the item for remarking. Contact the Course Instructors or the Head TA for all queries about course marks, or follow the instructions on Blackboard if you wish to challenge a mark. Absolutely no item will be remarked after the one-month period has passed.

Material submitted for remarking must be accompanied by a brief written explanation detailing your reasons for dissatisfaction with the original mark (such as an addition error, or something you think the marker may have missed). The item may be remarked by the TA who originally marked it. If you are still dissatisfied, it may be passed on to the Course Instructor for reconsideration.

### What If You Miss a Quiz, Test, or Assignment?

**In-class or Online Quiz/Test, as per Department of Geography policy:** Students **CANNOT** petition to re-write a quiz/test once the test has begun. If you are feeling ill, please do not start the online or in-class test, and seek medical attention immediately. You must have a physician fill out a U of T Student Medical Certificate and submit a request via the online Special Consideration Request form at <https://utmapp.utm.utoronto.ca/SpecialRequest> within 24 hours.

**Missed Term Work (Assignment), as per Department of Geography policy:** Late assignments will be subject to a late penalty of 10% per day (including weekends) of the total marks for the assignment. Assignments submitted five calendar days beyond the due date will be assigned a grade of zero. Assignments handed in AFTER the work has been returned to the class cannot be marked for credit. For accommodations on late/missed assignments please see section on “**Extension of Time.**”

**Missed Term Work (Quiz), as per Department of Geography policy:** In courses with final exams, there will be no re-writes or make-ups for quizzes missed for University-accepted, verifiable reasons. If a Request for Special Consideration is submitted with appropriate documentation, and approved by the departmental petitions committee, accommodation will be made for the missed item, typically by re-weighting it.

**Missed Term Work (Term Test), an exception to Department of Geography policy, approved by the Chair:** There will be one makeup opportunity for the Term Test; it will be in early January. If you miss the Test for a University-accepted, verifiable reason, and you follow the instructions given below for submitting appropriate documentation, you may be approved for the makeup test by the departmental petitions committee. In that case, you will be informed of the date, time, and location for the makeup test. No other makeup opportunities will be provided; if you miss the makeup test in January, for any reason, you will need to submit a new Request for Special Consideration, with appropriate documentation. If your request is approved, the test will not be re-scheduled again, but its value in the course assessment scheme may be re-weighted to the Final Exam.

**If you miss a Final Exam**, please contact the UTM Office of the Registrar, not the Department of Geography.

**Informing Your Professor and Submitting Appropriate Documentation:** The following steps must be completed in order to be considered for academic accommodation for any missed quiz/test.

1. Students must inform their professor in writing (e-mail is acceptable) within 24 hours of a test date of any



circumstances that prevent them from writing a test.

2. Students must complete an online Special Consideration Request at <https://utmapp.utm.utoronto.ca/SpecialRequest>. Students who miss a test due to circumstances beyond their control (e.g., illness or an accident) can request that the Department grant them special consideration. You must inform your instructor within 24 hours and you have 48 hours from the date of the missed test to submit your online request (late requests will NOT be considered without a "letter of explanation" as to why the request is late). You must present your case to the Department (not the Instructor). Note: The system only supports Microsoft Internet Explorer and Firefox for the time being.
3. Original supporting documentation (e.g., Verification of Student Illness or Injury form, accident report, etc.) **MUST BE SUBMITTED to the DROP BOX (labeled "Environment and Geography Petition Documentation") located outside Room 3282, Davis Building.** Supporting documentation is required within one (1) week of submitting your online request.

Please Note: If you missed your quiz, test, or assignment for a reason connected to your registered disability, please be advised that the department will accept documentation supplied by the UTM AccessAbility Resource Centre.

Note:

- i. ROSI declarations are not accepted as supporting documentation.
  - ii. If your reason for absence is due to a last minute flight due to a family emergency (illness/death etc.) you must provide your flight itinerary INCLUDING the date the flight was purchased as well as boarding passes in addition to proof of death/illness/accident.
4. **Verification of Student Illness or Injury** forms: Documentation MUST show that the physician was consulted within ONE day of the test date. A statement merely confirming a report of illness made by the student is NOT acceptable (such as, "This patient tells me that he was feeling ill on that day."). Verification of Student Illness or Injury forms can be found on the Office of the Registrar's webpage (<http://www.illnessverification.utoronto.ca/getattachment/index/Verification-of-Illness-or-Injury-form-Jan-22-2013.pdf.aspx>).

Please note that the written explanation and documentation that you submit represents an appeal from you, requesting the opportunity to account for that portion of your grade in some other manner. If an appeal is not received, or if the appeal is deemed unacceptable, you will receive a grade of zero for the item you missed. If the appeal is granted – that is, your reason for missing the item is considered acceptable by the committee – then a mechanism for accounting for the grade value of the missed item will be discussed.

A departmental petitions committee evaluates each request. **Decisions will be communicated by email within two weeks of receipt of all completed documents.** It is your responsibility to ensure your email account is working and able to receive emails. Claims that a Departmental decision was not received will NOT be considered as a reason for further consideration. Contact Sabrina Ferrari ([sabrina.ferrari@utoronto.ca](mailto:sabrina.ferrari@utoronto.ca)) Academic Counselor, should you NOT receive notification of your decision within 2 weeks of submission.

Please note that holidays, pre-purchased plane tickets, family plans, your friend's wedding, lack of preparation, or too many other tests/assignments are not acceptable excuses for missing a quiz, a test, an item of term work, or requesting an extension.

**Extension of Time:** The following steps must be completed in order to be considered for academic accommodation for any assignment extensions. Assignments handed in AFTER the work has been returned to the class cannot be marked for credit.

1. Students must inform their professor in writing (e-mail is acceptable) IN ADVANCE of an assignment due date of any circumstances that prevent them from submitting their assignment on time.
2. Students must complete an online Special Consideration Request at <https://utmapp.utm.utoronto.ca/SpecialRequest> IN ADVANCE of the assignment due date. Note: The system only supports Microsoft Internet Explorer and Firefox for the time being.



3. Original supporting documentation (e.g., Verification of Student Illness or Injury form, accident report, etc.) **MUST BE SUBMITTED to the DROP BOX (labeled "Environment and Geography Petition Documentation") located outside Room 3282, Davis Building.** Supporting documentation is required within one (1) week of submitting your online request.
4. **Verification of Student Illness or Injury** forms: Documentation MUST show that the physician was consulted within ONE day of the assignment due date. A statement merely confirming a report of illness made by the student is NOT acceptable (such as, "This patient tells me that he was feeling ill on that day."). Verification of Student Illness or Injury forms can be found on the Office of the Registrar's webpage (<http://www.illnessverification.utoronto.ca/getattachment/index/Verification-of-Illness-or-Injury-form-Jan-22-2013.pdf.aspx>).

Original supporting documentation (e.g., Verification of Student Illness or Injury form, accident report, etc.) **MUST BE SUBMITTED to the DROP BOX (labeled "Environment and Geography Petition Documentation") located outside Room 3282, Davis Building.** Note: ROSI declarations are not accepted as supporting documentation. You are expected to submit your request to the Department before the due date of the assignment, unless demonstrably serious reasons prevent you from doing so. In the event of an illness, if you are seeking a one-day extension, Verification of Student Illness or Injury forms must confirm that you were ill on the due date of the assignment; if you are requesting a longer extension, your documentation must specify exactly the length of the period during which you were unable to carry out your academic work. For extensions of time beyond the examination period you must submit a petition through the Office of the Registrar. <http://www.erin.utoronto.ca/index.php?id=6988>

A Departmental committee evaluates each request for an extension of time. **Decisions will be communicated by email within two weeks of receipt of all completed documents. Please note that students are required to submit their assignment/lab as soon as they are able and they should NOT wait for the decision of the committee.** Note: It is your responsibility to ensure your email account is working and able to receive emails. Claims that a Departmental decision was not received will NOT be considered as a reason for further consideration. Contact Sabrina Ferrari ([sabrina.ferrari@utoronto.ca](mailto:sabrina.ferrari@utoronto.ca)) Academic Counselor, should you NOT receive notification of your decision within 2 weeks of submission.

It is your responsibility to follow the appropriate procedures and submit requests for special consideration on time. Failure to do so may result in the committee denying your request.

Should you require further information regarding Special Considerations, please contact the Academic Counselor.

Sabrina Ferrari, Undergraduate Academic Counselor  
Room 3282, Davis Building, Telephone: 905-828-5465  
email: [sabrina.ferrari@utoronto.ca](mailto:sabrina.ferrari@utoronto.ca)

## **AccessAbility**

U of T Mississauga and the AccessAbility Resource Centre are committed to the full participation of students with disabilities in all aspects of campus life. The AccessAbility Resource Centre provides academic accommodations and services to students who have a physical, sensory, or learning disability, mental health condition, acquired brain injury, or chronic health condition, be it visible or hidden. Students who have temporary disabilities (e.g., broken dominant arm) are also eligible to receive services. All interested students must have an intake interview with an advisor to discuss their individual needs.

Students who require accommodation are advised to visit the AccessAbility Resource Centre as early as possible to have their needs assessed, as it may take some time to process the application.

For more information please contact the Centre at:

Room 2047, Davis Building

Tel/TTY: 905-569-4699 e-mail: [access.utm@utoronto.ca](mailto:access.utm@utoronto.ca) web: [www.utm.utoronto.ca/access](http://www.utm.utoronto.ca/access)

## Policies on Religious Observances, Equity, and Academic Rights

### **Religious Observances**

It is University policy to make every effort to arrange reasonable accommodations for students who observe religious holy days that are not accommodated by ordinary scheduling and statutory holidays.

Students have a responsibility to alert the teaching staff in a timely fashion to upcoming religious observances and anticipated absences (three weeks advance notice, minimum, is considered to be sufficient). Instructors will make every reasonable effort to avoid scheduling tests, examinations or other compulsory activities at these times. If compulsory activities are unavoidable, every reasonable opportunity will be given to these students to make up work that they miss. When the scheduling of tests or examinations cannot be avoided, students will be informed of the procedure to be followed to arrange to write at an alternate time.

It is most important that no student be seriously disadvantaged because of her or his religious observances. However, in the scheduling of academic and other activities, it is also important to ensure that the accommodation of one group does not seriously disadvantage other groups within the University community. More information and some dates of potential relevance for the U of T community are available at [www.viceprovoststudents.utoronto.ca/publicationsandpolicies/guidelines/religiousobservances.htm](http://www.viceprovoststudents.utoronto.ca/publicationsandpolicies/guidelines/religiousobservances.htm).

### **Equity Statement**

The University of Toronto is committed to equity and respect for diversity. All members of the learning environment in this course should strive to create an atmosphere of mutual respect. As a course instructor, I will neither condone nor tolerate behaviour that undermines the dignity or self-esteem of any individual in this course and wish to be alerted to any attempt to create an intimidating or hostile environment. It is our collective responsibility to create a space that is inclusive and welcomes discussion. Discrimination, harassment and hate speech will not be tolerated. If you have any questions, comments, or concerns you may contact the UTM Equity and Diversity officer at [edo.utm@utoronto.ca](mailto:edo.utm@utoronto.ca) or the University of Toronto Mississauga Students' Union Vice President Equity at [vpequity@utmsu.ca](mailto:vpequity@utmsu.ca).

### **Academic Rights**

You, as a student at UTM, have the right to:

- Receive a syllabus by the first day of class.
- Rely upon a syllabus once a course is started. An instructor may only change marks' assignments by following the University Assessment and Grading Practices Policy provision 1.3.
- Refuse to use turnitin.com (you must be offered an alternative form of submission).
- Have access to your instructor for consultation during a course or follow up with the department chair if the instructor is unavailable.
- Ask the person who marked your term work for a re-evaluation if you feel it was not fairly graded. You have up to one month from the date of return of the item to inquire about the mark. If you are not satisfied with a re-evaluation, you may appeal to the instructor in charge of the course if the instructor did not mark the work. If your work is remarked, you must accept the resulting mark. You may only appeal a mark beyond the instructor if the term work was worth at least 20% of the course mark.
- Receive at least one significant mark (15% for H courses, 25% for Y courses) before the last day you can drop a course for H courses, and the last day of classes in the first week of January for Y courses taught in the Fall/Winter terms.
- Submit handwritten essays so long as they are neatly written.
- Have no assignment worth 100% of your final grade.
- Not have a term test worth 25% or more in the last two weeks of class.

- Retain intellectual property rights to your research.
- Receive all your assignments once graded.
- View your final exams. To see a final exam, you must submit an online Exam Reproduction Request within 6 months of the exam. There is a small non-refundable fee.
- Privacy of your final grades.
- Arrange for representation from Downtown Legal Services (DLS), a representative from the UTM Students' Union (UTMSU), and/or other forms of support if you are charged with an academic offence.

## **Code of Conduct and Academic Honesty/Integrity**

It is your responsibility as a student at the University of Toronto, to familiarize yourself with, and adhere to, both the Code of Student Conduct and the Code of Behaviour on Academic Matters.

This means, first and foremost, that you should read them carefully.

- The [Code of Student Conduct](#) is available from the U of T Mississauga website (Registrar > Academic Calendar > Codes and Policies) or in your print version of the Academic Calendar.
- The [Code of Behaviour on Academic Matters](#) is available from the U of T Mississauga website (Registrar > Academic Calendar > Codes and Policies) or in your print version of the Academic Calendar.
- Another helpful document that you should read is [How Not To Plagiarize](#), by M. Proctor.

## **Further Thoughts on Academic Honesty/Integrity**

The Code of Behaviour on Academic Matters states that:

*"The University and its members have a responsibility to ensure that a climate that might encourage, or conditions that might enable, cheating, misrepresentation or unfairness not be tolerated. To this end all must acknowledge that seeking credit or other advantages by fraud or misrepresentation, or seeking to disadvantage others by disruptive behaviour is unacceptable, as is any dishonesty or unfairness in dealing with the work or record of a student." – University of Toronto Mississauga Academic Calendar*

This summarizes what we are all trying to achieve through the implementation of this Code – both students and faculty. We are trying – together – to create an atmosphere of fairness and honesty, in which people can learn and receive appropriate credit for work that they have done.

Note that the Code refers specifically to expectations for faculty members, not just for students. It is my responsibility, as a member of the faculty of the University of Toronto, to be familiar with these expectations and adhere to them. There are many additional academic requirements that we are expected to meet with regard to the integrity of course materials, returning of marked work to students, maintenance of student privacy, fairness, grading practices, and others. My TAs and I will make every possible effort to meet these expectations.

## **Conduct in the Academic Setting**

We view the classroom relationship as an academic dialogue. We hope that we can approach our relationships as students, faculty, and TAs with a spirit of honesty, fairness, and mutual respect for each other and for learning.

Our expectation is that you will show respect to instructors, TAs, other faculty, staff, and – importantly – fellow students. This includes arriving on time and staying for the entire class (so you don't disturb others by your late entry or early departure); listening quietly (so you don't disturb others by your chatting or online activities); approaching your course work with an open, honest spirit and enthusiasm; and otherwise adhering to the Code.

In turn, you can expect that we (instructors and TAs) will show respect to you and your fellow students; deliver the best course that we possibly can; communicate our enthusiasm for the material; maintain fairness in all aspects of course delivery and assessment; and otherwise adhere to the Codes.

## ENV100Y5Y ENVIRONMENT Tentative Schedule 2016-17

<b>MODULE 1: September 7 – September 30</b>			
<b>WEEK</b>	<b>SESSION and DATE</b>	<b>TOPIC</b>	<b>READINGS</b>
1	M 5/9/16	<b>LABOUR DAY – NO CLASSES</b>	
	1 W 7/9/16	Course Introduction	Chapter 1
	2 F 9/9/16	Introduction to Environmental Science (I)	"
2	3 M 12/9/16	Introduction to Environmental Science (II)	"
	4 W 14/9/16	How Science is Done: An Aside on Hypotheses	Chapter 2
	5 F 16/9/16	Matter and Energy: Earth as a Planet	"
3	6 M 19/9/16	Chemical Evolution of Earth Systems	"
	7 W 21/9/16	Geological Systems and Plate Tectonics (I)	"
	8 F 23/9/16	Geological Systems and Plate Tectonics (II)	"
To do:	<b>Assignment #1:</b> due on Friday, September 23 by 11:59 p.m.		
4	9 M 26/9/16	Earth's Environmental Systems and Cycles (I)	Chapter 3
	10 W 28/9/16	Earth's Environmental Systems and Cycles (II)	"
	11 F 30/9/16	Quiz Friday: No class – prep for Quiz #1	
To do:	<b>Quiz #1:</b> Online. Opens at 11 am on Friday, September 30. Must be completed by noon on Saturday, October 1. You can take the quiz twice; the higher of the two marks will be counted.		

<b>MODULE 2: October 3 – November 4</b>			
<b>WEEK</b>	<b>SESSION and DATE</b>	<b>TOPIC</b>	<b>READINGS</b>
5	12 M 3/10/16	Biogeochemical Cycles (I)	Chapter 3
	13 W 5/10/16	Biogeochemical Cycles (II)	"
	14 F 7/10/16	Introduction to Ecosystems	"
	10/10/16 14/10/16	<b>Thanksgiving and Reading Week – NO CLASSES</b>	
6	15 M 17/10/16	Evolution, Biodiversity, and Population Ecology (I)	Chapter 4
	16 W 19/10/16	Evolution, Biodiversity, and Population Ecology (II)	"
	17 F 21/10/16	Evolution, Biodiversity, and Population Ecology (III)	"
7	18 M 24/10/16	Species Interactions and Community Ecology (I)	Chapter 5
	19 W 26/10/16	Species Interactions and Community Ecology (II)	"
	20 F 28/10/16	Species Interactions and Community Ecology (III)	"
To do:	<b>Assignment #2:</b> due on Friday, October 28 by 11:59 p.m.		
8	21 M 31/10/16	Human Origins	Chapter 6
	22 W 2/11/16	Human Population	"
	23 F 4/11/16	Quiz Friday: No class – prep for Quiz #2	
To do:	<b>Quiz #2:</b> Online. Opens at 11 am on Friday, Nov. 4. Must be completed by noon on Saturday, Nov. 5. You can take the quiz twice; the higher of the two marks will be counted.		

<b>MODULE 3: November 7 – December 2</b>				
<b>WEEK</b>	<b>SESSION and DATE</b>		<b>TOPIC</b>	<b>READINGS</b>
9	24	M 7/11/16	Soil Resources (I)	Chapter 7
	25	W 9/11/16	Soil Resources (II)	"
	26	F 11/11/16	Agriculture and Biotechnology (I)	Chapter 8
10	27	M 14/11/16	Agriculture and Biotechnology (II)	"
	28	W 16/11/16	Agriculture and Biotechnology (III)	"
	29	F 18/11/16	Aquaculture	"
11	30	M 21/11/16	Conservation of Species and Habitat (I)	Chapter 9
	31	W 23/11/16	Conservation of Species and Habitat (II)	"
	32	F 25/11/16	Conservation of Species and Habitat (III)	"
To do:	<b>Assignment #3:</b> due on Friday, November 25 by 11:59 p.m.			
12	33	M 28/11/16	Forest Ecosystems (I)	Chapter 10
	34	W 30/11/16	Forest Ecosystems (II)	"
	35	F 2/12/16	Quiz Friday: No class – prep for Quiz #3	
To do:	<b>Quiz #3:</b> Online. Opens at 11 am on Friday, Dec. 2. Must be completed by noon on Saturday, Dec. 3. You can take the quiz twice; the higher of the two marks will be counted.			
	36	M 5/12/16	Term Test Review (tentative)	Chapters 1–10
To do:	<b>Study Period:</b> December 6–7 <b>Term Test:</b> Scheduled by the Registrar during the December Exam Period (Dec. 8–20, 2016).			

<b>MODULE 4: January 2 – January 27</b>				
<b>WEEK</b>	<b>SESSION and DATE</b>		<b>TOPIC</b>	<b>READINGS</b>
13	37	M 2/1/17	Freshwater Systems and Water Resources (I)	Chapter 11
	38	W 4/1/17	Freshwater Systems and Water Resources (II)	"
	39	F 6/1/17	Protecting Lakes and Wetlands	"
14	40	M 9/1/17	Marine and Coastal Systems (I)	Chapter 12
	41	W 11/1/17	Marine and Coastal Systems (II)	"
	42	F 13/1/17	Atmospheric Science and Weather (I)	Chapter 13
15	43	M 16/1/17	Atmospheric Science and Weather (II)	"
	44	W 18/1/17	Atmospheric Science and Weather (III)	"
	45	F 20/1/17	Atmospheric Science and Weather (IV)	"
To do:	<b>Assignment #4:</b> due on Friday, January 20 by 11:59 p.m.			
16	46	M 23/1/17	Air Pollution and Stratospheric Ozone Depletion (I)	"
	47	W 25/1/17	Air Pollution and Stratospheric Ozone Depletion (II)	"
	48	F 27/1/17	Quiz Friday: No class – prep for Quiz #4	
To do:	<b>Quiz #4:</b> Online. Opens at 11 am on Friday, January 27. Must be completed by noon on Saturday, January 28. You can take the quiz twice; the higher of the two marks will be counted.			

<b>MODULE 5: January 30 – March 3</b>				
<b>WEEK</b>	<b>SESSION and DATE</b>		<b>TOPIC</b>	<b>READINGS</b>
17	49	M 30/1/17	The Climate System (I)	Chapter 14
	50	W 1/2/17	The Climate System (II)	"
	51	F 3/2/17	Global Climate Change (I)	"
18	52	M 6/2/17	Global Climate Change (II)	"
	53	W 8/2/17	Global Climate Change (III)	"
	54	F 10/2/17	Goodbye Polar Bears	"
19	55	M 13/2/17	Fossil Fuels and the Future of Oil (I)	Chapter 15
	56	W 15/2/17	Fossil Fuels and the Future of Oil (II)	"
	57	F 17/2/17	Energy Alternatives: Conventional and Emerging (I)	Chapter 16
To do:	<b>Assignment #5:</b> due on Friday, February 17 by 11:59 p.m.			
	20/2/17	24/2/17	<b>Family Day and Reading Week – NO CLASSES</b>	
20	58	M 27/2/17	Energy Alternatives: Conventional and Emerging (II)	"
	59	W 1/3/17	Energy Alternatives: Conventional and Emerging (III)	"
	60	F 3/3/17	Quiz Friday: No class – prep for Quiz #5	"
To do:	<b>Quiz #5:</b> Online. Opens at 11 am on Friday, March 3. Must be completed by noon on Saturday, March 4. You can take the quiz twice; the higher of the two marks will be counted.			

<b>MODULE 6: March 6 – March 31</b>				
<b>WEEK</b>	<b>SESSION and DATE</b>		<b>TOPIC</b>	<b>READINGS</b>
21	61	M 6/3/17	Mineral Resources and Mining (I)	Chapter 17
	62	W 8/3/17	Mineral Resources and Mining (II)	"
	63	F 10/3/17	Waste Management (I)	Chapter 18
22	64	M 13/3/17	Waste Management (II)	"
	65	W 15/3/17	Waste Management (III)	"
	66	F 17/3/17	Environmental Health and Hazards (I)	Chapter 19
23	67	M 20/3/17	Environmental Health and Hazards (II)	"
	68	W 22/3/17	Environmental Health and Hazards (III)	"
	69	F 24/3/17	Environmental Health and Hazards (IV)	"
To do:	<b>Assignment #6:</b> due on Friday, March 24 by 11:59 p.m.			
24	70	M 27/3/17	Catch-Up and/or Final Exam Review	Chapters 11–19
	71	W 29/3/17	Wrap-Up Session	None
	72	F 31/3/17	Quiz Friday: No class – prep for Quiz #6	
To do:	<b>Quiz #6:</b> Online. Opens at 11 am on Friday, March 31. Must be completed by noon on Saturday, April 1. You can take the quiz twice; the higher of the two marks will be counted.			
To do:	<b>Study Period:</b> April 3–5 <b>Final Exam:</b> Scheduled by the Registrar during the April Exam Period (Apr. 6–22, 2017).			