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# ENVS\*3010 Climate Change Biology

# Summer 2018

Section: DE01

School of Environmental Sciences

Credit Weight: 0.50

## Course Details

### Calendar Description

This course examines the impacts of climate change on living organisms, biological communities and ecosystems. The course focuses on what is known, and what is not known, about the ways in which the suite of changing climate variables influence biological systems.

**Pre-Requisite(s):** BIOL\*2060

**Equate(s):** ENVB\*3010

**Restriction(s):** None

**Method of Delivery:** Online

### Final Exam

**Date:** Wednesday, August 15, 2018

**Time:** 23:59

**Location:** Take-home final exam to be submitted via the **Dropbox** tool in CourseLink

## Instructional Support

### Instructor

**Simone Härri**

**Email:** [shaerri@uoguelph.ca](mailto:shaerri@uoguelph.ca)

**Telephone:** (519) 824-4120 Ext. 56681

**Office:** Edmund C Bovey, Room 2216

I completed my PhD with a focus on community ecology in 2007 at the Institute of Environmental Sciences at the University of Zurich in Switzerland. After my PhD, I moved to Guelph and started working as a post-doctoral fellow in the lab of Jonathan Newman in the School of Environmental Sciences here at the University of Guelph. My research focused primarily on the ecological and evolutionary consequences of microbes in food webs. Some of my later work also contains aspects of climate change, i.e., effects of climate change on microbe-plant-herbivore interactions.

Over the past several years, my main interest has shifted from research to teaching. I have been teaching several different ENVS courses over the last four years, including the face-to-face version of this course. I thoroughly enjoy interacting with students, and many of my students enjoy my passion for the subject. I care about my students and want them to do the best they possibly can in my courses. My goal is that after each course I teach, you will remember some aspects of it for a long time. To achieve this in ENVS3010DE, I have included many learning strategies to engage you with the course material as much as possible. This is specifically important for this course, as human effects on climate is a subject dear to my heart. I look forward to this opportunity of sharing my passion with you.

### Teaching Assistant(s)

**Name:** TBA

**Email:** TBA

## Learning Resources

### Required Textbook

**Title:** Climate Change Biology

**Author(s):** Jonathan A. Newman, Madhur Anand, Hugh A. L. Henry, and Ze'ev Gedalof

**Edition / Year:** First / 2011

**Publisher:** CABI Publishing

**ISBN:** 9781845936709

You may purchase the textbook at the [Guelph Campus Co-op Bookstore](http://www.guelphcampus.coop/bookstore) or the [University of Guelph Bookstore](http://www.bookstore.uoguelph.ca/). Please note that DE textbooks are located in the Distance Education section of the University of Guelph Bookstore.

https://guelphcampus.coop/bookstore

http://www.bookstore.uoguelph.ca/

### Course Website

[CourseLink](https://courselink.uoguelph.ca/) (powered by D2L’s Brightspace) is the course website and will act as your classroom. It is recommended that you log in to your course website every day to check for announcements, access course materials, and review the weekly schedule and assignment requirements.

<https://courselink.uoguelph.ca>

### Ares

For this course, you will be required to access course reserve materials through the University of Guelph McLaughlin Library. To access these items, select **Ares** on the navbar in CourseLink. Note that you will need your Central Login ID and password in order to access items on reserve.

For further instructions on accessing reserve resources, visit [How to Get Course Reserve Materials](http://www.lib.uoguelph.ca/find/find-type-resource/course-reserves-ares/how-get-course-reserve-material).

If at any point during the course you have difficulty accessing reserve materials, please contact the e-Learning Operations and Reserve Services staff at:

Tel: 519-824-4120 ext. 53621  
Email: [libres2@uoguelph.ca](mailto:libres2@uoguelph.ca)  
Location: McLaughlin Library, First Floor, University of Guelph

http://www.lib.uoguelph.ca/find/find-type-resource/course-reserves-ares/how-get-course-reserve-material

## Learning Outcomes

### Course Learning Outcomes

This course starts off by discussing variability of climate and future climate projections. This will provide you with the necessary background on climate change. For the majority of the course, we will then focus on climate change effects on biology. We will climb the ecological ladder, by first discussing effects on individual organisms, then populations, communities and finally effects on entire ecosystems. We will solidify the understanding of those concepts by applying them to specific examples from forest ecology, agriculture and biodiversity.

Throughout this course, you will learn that effects of climate change on organisms often depend on the species in question, and on their interaction with the biotic and abiotic environment. The course covers some species-specific examples, but the focus lies on teaching you how to go about providing a scientific answer to questions about biological impacts of climate change. You will learn what kinds of questions get asked at each level of ecological organization and what techniques are used to address these questions. This means that along the way, you will also learn about statistical methods and procedures, and about important experimental design decisions. The goal is that by the end of this course someone should be able to ask you a question like: *"what will be the effect of climate change on X?"*  You probably won't know the specific answer, but you should be able to say: *"I don't know, but I know how to find out."*

By the end of this course, you should be able to:

1. Interpret the current climate change in a historical context and define natural and human causes of climate variability;
2. Examine the general trends in future climate and interpret the variability in future climate predictions through running different computer models;
3. Explain expected changes in the net primary production of ecosystems through the analysis of different effects of climate change on plant physiology and decomposition;
4. Evaluate the effects of the changing climate on forest productivity, food security, and biodiversity loss through applying the concepts learned about how climate change affects organisms;
5. Hypothesize how different species and entire communities react to the changing climate by formulating a scientific question that will be applied to the design and presentation of a poster; and
6. Design experimental methods necessary to study how individuals, populations, communities, and entire ecosystems will respond to the changing climate and discuss their limitations.

## Teaching and Learning Activities

### Method of Learning

During this course you will encounter a variety of different learning tools. The course uses an array of different approaches to satisfy all learning styles. In addition to the textbook reading, you are provided with several videos of narrated PowerPoint slides explaining the most important concepts more in-depth and with a more visual approach. In addition to the videos, interactive learning activities for each concept are designed to engage you directly with the material, which will deepen your understanding of the subject and give you a chance to test your understanding without having the pressure of grades.

To keep you on track with the course content, there are weekly online quizzes based on the unit's content and the textbook reading. You will have no time limit on the quiz and two attempts (with slightly different questions). The idea is that you have enough time to engage with the material and think about the answers. In addition, understanding the mistakes you did during your first attempt will provide you with the opportunity to learn and re-apply that knowledge. The better attempt counts towards your grade.

The other assignments are a mixture of individual and group work with the assignments building on top of each other. This will provide you the opportunity to have a more in-depth approach with a subject of your choice. The group work will enhance your collaborative skills and give you an opportunity to work with your peers.

In addition, the discussion participation is built on collaborative learning. For each unit's discussion, you will have to write a collaborative wiki-type document that answers a relevant question.

### Course Structure

This course is divided into ten units.

* Unit 01: Introduction and Climate Definition
* Unit 02: Climate Variability
* Unit 03: Climate of the Past
* Unit 04: Future Climate Projections
* Unit 05: Physiological Changes Under Climate Change
* Unit 06: Population Responses to Climate Change
* Unit 07: Community Responses to Climate Change
* Unit 08: Ecosystem Responses to Climate Change
* Unit 09: Evolutionary Responses
* Unit 10: Applications: Forest, Agriculture, and Biodiversity

### Schedule

It is strongly recommended that you follow the course schedule provided below. The schedule outlines what you should be working on each week of the course and lists the important due dates for the assessments. By following the schedule, you will be better prepared to complete the assessments and succeed in this course.

**Unit 01:** **Introduction and Climate Definition**

#### Week 1 – Thursday, May 10 to Sunday, May 20

**Readings**

* Unit 01 course content
* Ares:
  + NASA – What's the Difference Between Weather and Climate

**Activities**

* Familiarize yourself with the course website by selecting **Start Here** on the navbar.
* Review **Outline** and **Assessments** on the course website to learn about course expectations, assessments, and due dates.
* Confirm your access to the course reserve materials by selecting **Ares** on the navbar.
* Introduce yourself to the instructor and your classmates in the Class Introductions **Discussions** forum.
* Watch all unit concept **videos** and engage with the content by doing the **learning activities**.

**Assessments**

* **Unit 01: Open for Discussion** (**Discussions**)  
  Opens: Thursday, May 10 at 12:01 am ET  
  Submit one document per group to the Discussion Unit 01 **Dropbox**  
  Due: Sunday, May 20 by 11:59 pm ET
* **Unit 01 – Test Your Knowledge Quiz** (accessed through the **Quizzes** tool)  
  Opens: Thursday, May 10 at 12:01 am ET  
  Closes: Sunday, May 20 by 11:59 pm ET

**Unit 02: Climate Variability**

#### Week 2 – Monday, May 21 to Sunday, May 27

**Readings**

* Unit 02 course content
* Textbook:
  + Chapter 1.4 (pp. 21 – 24)
  + Box 1.1 (pp. 16 – 17)

**Activities**

* Watch all unit concept **videos** and engage with the content by doing the **learning activities**.

**Assessments**

* **Unit 02: Open for Discussion** (**Discussions**)  
  Opens: Monday, May 21 at 12:01 am ET  
  Submit one document per group to te Discussion Unit 02 **Dropbox**  
  Due: Sunday, May 27 by 11:59 pm ET
* **Unit 02 – Test Your Knowledge Quiz** (accessed through the **Quizzes** tool)  
  Opens: Monday, May 21 at 12:01 am ET  
  Closes: Sunday, May 27 by 11:59 pm ET

**Unit 03: Climate of the Past**

#### Week 3 – Monday, May 28 to Sunday, June 3

**Readings**

* Unit 03 course content
* Textbook:
  + Chapter 1 (pp. 3 – 21)
  + Chapter 1.5 (pp. 24 – 27)

**Activities**

* Watch all unit concept **videos** and engage with the content by doing the **learning activities**.
* Familiarize yourself with the **Future Projection Assignment** description (see Assessments).
* Check whether you find your assigned region for the Future Projection Assignment (see **Announcements** on the course home page).
* Inform the instructor via email if you require a **discussion group change**.

**Assessments**

* **Unit 03: Open for Discussion** (**Discussions**)  
  Opens: Monday, May 28 at 12:01 am ET  
  Submit one document per group to the Discussion Unit 03 **Dropbox**  
  Due: Sunday, June 3 by 11:59 pm ET
* **Unit 03 – Test Your Knowledge Quiz** (accessed through the **Quizzes** tool)  
  Opens: Monday, May 28 at 12:01 am ET  
  Closes: Sunday, June 3 by 11:59 pm ET

**Unit 04: Future Climate Projections**

#### Week 4 – Monday, June 4 to Sunday, June 10

**Readings**

* Unit 04 course content
* Textbook:
  + Chapter 2
  + Chapter 3 (pp. 56 – 61, excluding box 3.1)

**Activities**

* Watch all unit concept **videos** and engage with the content by doing the **learning activities**.
* Work through your **Future Projection Assignment**.

**Assessments**

* **Unit 04: Open for Discussion** (**Discussions**)  
  Opens: Monday, June 4 at 12:01 am ET  
  Submit one document per group to the Discussion Unit 04 **Dropbox**  
  Due: Sunday, June 10 by 11:59 pm ET
* **Unit 04 – Test Your Knowledge Quiz** (accessed through the **Quizzes** tool)  
  Opens: Monday, June 4 at 12:01 am ET  
  Closes: Sunday, June 10 by 11:59 pm ET

**Unit 05: Physiological Changes Under Climate Change**

#### Weeks 5 and 6 – Monday, June 11 to Sunday, June 24

**Readings**

* Unit 05 course content
* Textbook:
  + Chapter 3 (pp. 67 – 69, section "Meta-analyses")
  + Chapter 4

**Activities**

* Watch all unit concept **videos** and engage with the content by doing the **learning activities**.
* Finish your **Future Projection Assignment**.
* Familiarize yourself with the **Poster Assignment** assessment details and rubric (see **Assessments**).

**Assessments**

* **Future Projection Assignment** (submit to **Dropbox**)  
  Due: Monday, June 18 by 11:59 pm ET
* **Unit 05: Open for Discussion** (**Discussions**)  
  Opens: Monday, June 11 at 12:01 am ET  
  Submit one document per group to the Discussion Unit 05 **Dropbox**  
  Due: Sunday, June 24 by 11:59 pm ET
* **Unit 05 – Test Your Knowledge Quiz** (accessed through the **Quizzes** tool)  
  Opens: Monday, June 11 at 12:01 am ET  
  Closes: Sunday, June 24 by 11:59 pm ET

**Unit 06: Population Responses to Climate Change**

#### Week 7 – Monday, June 25 to Sunday, July 1

**Readings**

* Unit 06 course content
* Textbook:
  + Chapter 5
  + Chapter 3 (pp. 54 - 55, “Statistical power”)

**Activities**

* Watch all unit concept **videos** and engage with the content by doing the **learning activities**.
* Work on your **Poster Assignment**.

**Assessments**

* **Unit 06: Open for Discussion** (**Discussions**)  
  Opens: Monday, June 25 at 12:01 am ET  
  Submit one document per group to the Discussion Unit 06 **Dropbox**  
  Due: Sunday, July 1 by 11:59 pm ET
* **Unit 06 – Test Your Knowledge Quiz** (accessed through the **Quizzes** tool)  
  Opens: Monday, June 25 at 12:01 am ET  
  Closes: Sunday, July 1 by 11:59 pm ET

**Unit 07: Community Responses to Climate Change**

#### Week 8 – Monday, July 2 to Sunday, July 8 *(40th Class Day: Friday, July 6)*

**Readings**

* Unit 07 course content
* Textbook:
  + Chapter 6
  + Chapter 3 (pp. 55- 56, “Pseudoreplication”)

**Activities**

* Watch all unit concept **videos** and engage with the content by doing the **learning activities**.
* Work on your **Poster Assignment**.

**Assessments**

* **Unit 07: Open for Discussion** (**Discussions**)  
  Opens: Monday, July 1 at 12:01 am ET  
  Submit one document per group to the Discussion Unit 07 **Dropbox**  
  Due: Sunday, July 8 by 11:59 pm ET
* **Unit 07 – Test Your Knowledge Quiz** (accessed through the **Quizzes** tool)  
  Opens: Monday, July 1 at 12:01 am ET  
  Closes: Sunday, July 8 by 11:59 pm ET

**Unit 08: Ecosystem Responses to Climate Change**

#### Weeks 9 and 10 – Monday, July 9 to Sunday, July 22

**Readings**

* Unit 08 course content
* Textbook:
  + Chapter 7
  + Chapter 3 (pp. 61 – 67, “Bioclimatic envelope models and ecological niche models”)

**Activities**

* Watch all unit concept **videos** and engage with the content by doing the **learning activities**.
* Familiarize yourself with the **Method** **Assignment** description and rubric (see **Assessments**).
* Start brainstorming for your experimental design for your **Method** **Assignment**.

**Assessments**

* **Poster Assignment** (submit to **Dropbox**)  
  Due: Wednesday, July 11 by 11:59 pm ET
* **Unit 08: Open for Discussion** (**Discussions**)  
  Opens: Monday, July 9 at 12:01 am ET  
  Submit one document per group to the Discussion Unit 08 **Dropbox**  
  Due: Sunday, July 22 by 11:59 pm ET
* **Unit 08 – Test Your Knowledge Quiz** (accessed through the **Quizzes** tool)  
  Opens: Monday, July 9 at 12:01 am ET  
  Closes: Sunday, July 22 by 11:59 pm ET

**Unit 09:** **Evolutionary Responses**

#### Week 11 – Monday, July 23 to Sunday, July 29

**Readings**

* Unit 09 course content
* Textbook:
  + Chapter 8

**Activities**

* Watch all unit concept **videos** and engage with the content by doing the **learning activities**.
* Work on your **Method** **Assignment**.

**Assessments**

* **Unit 09: Open for Discussion** (**Discussions**)  
  Opens: Monday, July 23 at 12:01 am ET  
  Submit one document per group to the Discussion Unit 09 **Dropbox**  
  Due: Sunday, July 29 by 11:59 pm ET
* **Unit 09 – Test Your Knowledge Quiz** (accessed through the **Quizzes** tool)  
  Opens: Monday, July 23 at 12:01 am ET  
  Closes: Sunday, July 29 by 11:59 pm ET

**Unit 10: Applications: Forest, Agriculture, and Biodiversity**

#### Week 12 – Monday, July 30 to Sunday, August 5

**Readings**

* Unit 10 course content
* Textbook – Choose one of the three following textbook chapters that most interests you:
  + Chapter 10: The Future of Forest Productivity
  + Chapter 11: The Future of Agricultural Production
  + Chapter 12: Impacts on Biodiversity

**Activities**

* Watch all unit concept **videos** and engage with the content by doing the **learning activities**.
* Start working on your **Take-home Exam**.

**Assessments**

* **Method Piece** (submit to **Dropbox**)  
  Due: Sunday, August 5 by 11:59 pm ET
* **Unit 10: Open for Discussion** (**Discussions**)  
  Opens: Monday, July 30 at 12:01 am ET  
  Submit one document per group to the Discussion Unit 10 **Dropbox**  
  Due: Sunday, August 35 by 11:59 pm ET
* **Unit 10 – Test Your Knowledge Quiz** (accessed through the **Quizzes** tool)  
  Opens: Monday, July 30 at 12:01 am ET  
  Closes: Sunday, August 5 by 11:59 pm ET

## Assessments

The grade determination for this course is indicated in the following table. A brief description of each assessment is provided below. Select **Content** on the navbar to locate **Assessments** in the table of contents panel to review further details of each assessment. Due dates can be found under the Schedule heading of this outline.

Table 1: Course Assessments

| Assessment Item | Weight |
| --- | --- |
| Weekly Quizzes (2% x 10) | 20% |
| Discussions (2% x 10) | 20% |
| Future Projection Assignment | 15% |
| Poster | 15% |
| Method Piece | 15% |
| Take-home Final Exam | 15% |
| **Total** | **100%** |

### Assessment Descriptions

#### Weekly Quizzes

At the end of each unit, there is an online quiz due (see **Schedule** above for exact times and dates when they are due). You get two attempts for each quiz and the lowest grade will not count towards your final grade. Each quiz consists mostly of multiple choice and true/false questions, but may also include some long answer questions.

#### Discussions

Your participation in online discussions is required within every unit. Online discussions happen in smaller discussion groups, and for each unit's discussion, your group is given a task to complete that results in a collaborative wiki-type document that needs to be submitted.

#### Three-part Assignment:

1. **Future Projection Assignment**  
   The first part of this three-part assignment is a data assignment. You will use Excel to plot the future climate of an assigned region.
2. **Poster**  
   For the second part, you will create a poster. Based on your future climate projections, you will hypothesise how a species of your choice might be affected by climate change. The poster will have to stand by itself, as there is no oral poster presentation.
3. **Method Piece**  
   For the last part, you will design an experiment that can test your hypothesis developed for your poster. You will then use this experimental design and write a material and method part in the style of an actual peer-reviewed journal.

#### Take-home Final Exam

This course requires you to submit a take-home final exam to the **Dropbox** tool in CourseLink. At the end of the course, you will be given several questions to answer at home. Those questions will be covering the entire course content. You will have ample time to answer these questions and they are created to test your understanding of the learned material. Select **Content** on the navbar to locate **Assessments** in the table of contents panel to review further details of the final exam.

## Course Technologies and Technical Support

### CourseLink System Requirements

You are responsible for ensuring that your computer system meets the necessary [system requirements](http://spaces.uoguelph.ca/ed/system-requirements/). Use the [browser check](http://courselink.uoguelph.ca/d2l/tools/system_check/systemcheck.asp?ou=6605) tool to ensure your browser settings are compatible and up to date. (Results will be displayed in a new browser window).

http://spaces.uoguelph.ca/ed/system-requirements/

https://courselink.uoguelph.ca/d2l/systemCheck

### Technical Skills

As part of your online experience, you are expected to use a variety of technology as part of your learning:

* Manage files and folders on your computer (e.g., save, name, copy, backup, rename, delete, and check properties);
* Install software, security, and virus protection;
* Use office applications (e.g., Word, PowerPoint, Excel, or similar) to create documents;
* Be comfortable uploading and downloading saved files;
* Communicate using email (e.g., create, receive, reply, print, send, download, and open attachments);
* Navigate the CourseLink learning environment and use the essential tools, such as **Dropbox**, **Quizzes**, **Discussions**, and **Grades** (the instructions for this are given in your course);
* Access, navigate, and search the Internet using a web browser (e.g., Firefox, Internet Explorer); and
* Perform online research using various search engines (e.g., Google) and library databases.

### Course Technologies

#### Ares

The library’s Ares Course Reserve system is a software solution that provides you with access to digital resources used in your course. The system also provides information on print resources placed at the physical reserve desk at the library. Accessibility and privacy policy statements do not exist for this software.

#### CourseLink

Distance Education courses are offered entirely online using CourseLink (powered by D2L's Brightspace), the University of Guelph's online learning management system (LMS). By using this service, you agree to comply with the [University of Guelph's Access and Privacy Guidelines](http://www.uoguelph.ca/web/privacy/). Please visit the D2L website to review the [Brightspace privacy statement](http://www.d2l.com/legal/privacy/) and [Brightspace Learning Environment web accessibility standards](http://www.d2l.com/accessibility/standards/).

http://www.uoguelph.ca/web/privacy/

https://www.d2l.com/legal/privacy/

https://www.d2l.com/accessibility/standards/

### Technical Support

If you need any assistance with the software tools or the CourseLink website, contact CourseLink Support.

**CourseLink Support**

University of Guelph

Day Hall, Room 211

Email:[courselink@uoguelph.ca](mailto:courselink@uoguelph.ca)

Tel: 519-824-4120 ext. 56939

Toll-Free (CAN/USA): 1-866-275-1478

**Walk-In Hours (Eastern Time):**

Monday thru Friday: 8:30 am–4:30 pm

**Phone/Email Hours (Eastern Time):**

Monday thru Friday: 8:30 am–8:30 pm

Saturday: 10:00 am–4:00 pm  
Sunday: 12:00 pm–6:00 pm

## Course Specific Standard Statements

### Acceptable Use

The University of Guelph has an [Acceptable Use Policy](http://www.uoguelph.ca/cio/content/aup-acceptable-use-policy), which you are expected to adhere to.

https://www.uoguelph.ca/ccs/infosec/aup

### Communicating with Your Instructor

During the course, your instructor will interact with you on various course matters on the course website using the following ways of communication:

* **Announcements:** The instructor will use **Announcements** on the Course Home page to provide you with course reminders and updates. Please check this section frequently for course updates from your instructor.
* **Ask Your Instructor Discussion:** Use this discussion forum to ask questions of your instructor about content or course-related issues with which you are unfamiliar. If you encounter difficulties, the instructor is here to help you. Please post general course-related questions to the discussion forum so that all students have an opportunity to review the response. To access this discussion forum, select **Discussions** from the **Tools** dropdown menu.
* **Email:** If you have a conflict that prevents you from completing course requirements, or have a question concerning a personal matter, you can send your instructor a private message by email. The instructor will respond to your email within 48 to 72 hours.
* **Skype:** If you have a complex question you would like to discuss with your instructor, you may book a Skype meeting.Skype meetings depend on the availability of you and the instructor, and are booked on a first come first served basis.

### Netiquette Expectations

For distance education courses, the course website is considered the classroom and the same protections, expectations, guidelines, and regulations used in face-to-face settings apply, plus other policies and considerations that come into play specifically because these courses are online.

Inappropriate online behaviour will not be tolerated. Examples of inappropriate online behaviour include:

* Posting inflammatory messages about your instructor or fellow students;
* Using obscene or offensive language online;
* Copying or presenting someone else's work as your own;
* Adapting information from the Internet without using proper citations or references;
* Buying or selling term papers or assignments;
* Posting or selling course materials to course notes websites;
* Having someone else complete your quiz or completing a quiz for/with another student;
* Stating false claims about lost quiz answers or other assignment submissions;
* Threatening or harassing a student or instructor online;
* Discriminating against fellow students, instructors, and/or TAs;
* Using the course website to promote profit-driven products or services;
* Attempting to compromise the security or functionality of the learning management system; and
* Sharing your username and password.

### Submission of Assignments to Dropbox

The **Discussion** tasks, **Future Projection Assignment, Poster, Method Piece, and Take-home Exam** should be submitted electronically via the online **Dropbox** tool. When submitting your assignments using the **Dropbox** tool, do not leave the page until your assignment has successfully uploaded. To verify that your submission was complete, you can view the submission history immediately after the upload to see which files uploaded successfully. The system will also email you a receipt. Save this email receipt as proof of submission.

Be sure to keep a back-up copy of all of your assignments in the event that they are lost in transition. In order to avoid any last-minute computer problems, your instructor strongly recommend you save your assignments to a cloud-based file storage (e.g., Google Docs), or send to your email account, so that should something happen to your computer, the assignment could still be submitted on time or re-submitted.

It is your responsibility to submit your assignments on time as specified on the Schedule. Be sure to check the technical requirements and make sure you have the proper computer, that you have a supported browser, and that you have reliable Internet access. Remember that **technical difficulty is not an excuse not to turn in your assignment on time.** Don’t wait until the last minute as you may get behind in your work.

If, for some reason, you have a technical difficulty when submitting your assignment electronically, please contact your instructor or [CourseLink Support](http://spaces.uoguelph.ca/ed/contact-us/).

http://spaces.uoguelph.ca/ed/contact-us/

### Late Policy

If you choose to submit your individual assignments to the **Dropbox** tool late, the full allocated mark will be reduced by 10% per day after the deadline for the submission of the assignment to a limit of seven days at which time access to the **Dropbox** folder will be closed.

Extensions will be considered for medical reasons or other extenuating circumstances. If you require an extension, discuss this with the instructor as soon as possible and well **before** the due date. Barring exceptional circumstances, extensions will not be granted once the due date has passed. These rules are not designed to be arbitrary, nor are they inflexible. They are designed to keep you organized, to ensure that all students have the same amount of time to work on assignments, and to help to return marked materials to you in the shortest possible time.

### Obtaining Grades and Feedback

Unofficial assessment marks will be available in the **Grades** tool of the course website.

Your instructor will have grades posted online within 2 weeks of the submission deadline, if the assignment was submitted on time.Once your assignments are marked you can view your grades on the course website by selecting **Grades** from the **Tools** dropdown menu on the navbar. Your course will remain open to you for seven days following the last day of the final exam period.

University of Guelph degree students can access their final grade by logging into [WebAdvisor](https://webadvisor.uoguelph.ca/WebAdvisor/WebAdvisor?TYPE=M&PID=CORE-WBMAIN&TOKENIDX=2526105680) (using your U of G central ID). Open Learning program students should log in to the [OpenEd Student Portal](https://courses.opened.uoguelph.ca/portal/logon.do?method=load) to view their final grade (using the same username and password you have been using for your courses).

https://webadvisor.uoguelph.ca

<https://courses.opened.uoguelph.ca/portal/logon.do?method=load>

Turnitin

In this course, your instructor will be using Turnitin, integrated with the CourseLink Dropbox tool, to detect possible plagiarism, unauthorized collaboration or copying as part of the ongoing efforts to maintain academic integrity at the University of Guelph.

All submitted assignments will be included as source documents in the Turnitin.com reference database solely for the purpose of detecting plagiarism of such papers. Use of the Turnitin.com service is subject to the Usage Policy posted on the Turnitin.com site.

### Rights and Responsibilities When Learning Online

For distance education (DE) courses, the course website is considered the classroom and the same protections, expectations, guidelines, and regulations used in face-to-face settings apply, plus other policies and considerations that come into play specifically because these courses are online.

For more information on your rights and responsibilities when learning in the online environment, visit [Rights and Responsibilities](http://opened.uoguelph.ca/student-resources/rights-and-responsibilities).

http://opened.uoguelph.ca/student-resources/rights-and-responsibilities

## University Standard Statements

### University of Guelph: Undergraduate Policies

As a student of the University of Guelph, it is important for you to understand your rights and responsibilities and the academic rules and regulations that you must abide by.

If you are a registered **University of Guelph Degree Student**, consult the [Undergraduate Calendar](http://www.uoguelph.ca/registrar/calendars/undergraduate/current/) for the rules, regulations, curricula, programs and fees for current and previous academic years.

If you are an **Open Learning Program Student**, consult the [Open Learning Program Calendar](http://opened.uoguelph.ca/en/students/open-learning-program-calendar.asp) for information about University of Guelph administrative policies, procedures and services.

https://www.uoguelph.ca/registrar/calendars/undergraduate/current/

http://opened.uoguelph.ca/student-resources/open-learning-program-calendar

### Email Communication

#### University of Guelph Degree Students

As per university regulations, all students are required to check their uoguelph.ca e-mail account regularly: e-mail is the official route of communication between the University and its students.

#### Open Learning Program Students

Check your email account (the account you provided upon registration) regularly for important communications, as this is the primary conduit by which the Open Learning and Educational Support will notify you of events, deadlines, announcements or any other official information.

### When You Cannot Meet Course Requirements

When you find yourself unable to meet an in-course requirement due to illness or compassionate reasons, please advise your course instructor **in writing**, with your name, ID number and email contact.

#### University of Guelph Degree Students

Consult the [Undergraduate Calendar](http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml) for information on regulations and procedures for Academic Consideration.

https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml

#### Open Learning Program Students

Please refer to the [Open Learning Program Calendar](http://opened.uoguelph.ca/en/students/open-learning-program-calendar.asp) for information on regulations and procedures for requesting Academic Consideration.

http://opened.uoguelph.ca/student-resources/open-learning-program-calendar

### Drop Date

#### University of Guelph Degree Students

The last date to drop one-semester courses, without academic penalty, is indicated on the Schedule section of this course outline. [Review the Undergraduate Calendar for regulations and procedures for Dropping Courses](http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml).

https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml

#### Open Learning Program Students

Please refer to the [Open Learning Program Calendar](http://opened.uoguelph.ca/en/students/open-learning-program-calendar.asp).

http://opened.uoguelph.ca/student-resources/open-learning-program-calendar

### Copies of Assignments

Keep paper and/or other reliable back-up copies of all assignments: you may be asked to resubmit work at any time.

### Accessibility

The University of Guelph is committed to creating a barrier-free environment. Providing services for students is a shared responsibility among students, faculty and administrators. This relationship is based on respect of individual rights, the dignity of the individual and the University community's shared commitment to an open and supportive learning environment.

#### University of Guelph Degree Students

Students requiring service or accommodation, whether due to an identified, ongoing disability or a short-term disability should contact Accessibility Services as soon as possible.

For more information, contact Accessibility Services at 519-824-4120 ext. 56208, [email Accessibility Services](mailto:accessibility@uoguelph.ca) or visit the [Accessibility Services website](https://wellness.uoguelph.ca/accessibility/).

accessibility@uoguelph.ca

https://wellness.uoguelph.ca/accessibility/

#### Open Learning Program Students

If you are an Open Learning program student who requires academic accommodation, please [contact the Academic Assistant to the Director](mailto:jessica.martin@uoguelph.ca). Please ensure that you contact us before the end of the first week of your course (every semester) in order to avoid any delays in support. Documentation from a health professional is required for all academic accommodations. Please note that all information provided will be held in confidence.

If you require textbooks produced in an alternate format (e.g., DAISY, Braille, large print or eText), please [contact the Academic Assistant to the Director](mailto:jessica.martin@uoguelph.ca) at least two months prior to the course start date. If contact is not made within the suggested time frame, support may be delayed. It is recommended that you refer to the course outline before beginning your course in order to determine the required readings.

The provision of academic accommodation is a shared responsibility between OpenEd and the student requesting accommodation. It is recognized that academic accommodations are intended to “level the playing field” for students with disabilities.

jessica.martin@uoguelph.ca

### Academic Misconduct

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community – faculty, staff, and students – to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

The [Academic Misconduct Policy](http://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml) is detailed in the Undergraduate Calendar.

https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml

### Copyright Notice

Content within this course is copyright protected. Third party copyrighted materials (such as book chapters and articles) have either been licensed for use in this course, or have been copied under an exception or limitation in Canadian Copyright law.

The fair dealing exemption in Canada's Copyright Act permits students to reproduce short excerpts from copyright-protected materials for purposes such as research, education, private study, criticism and review, with proper attribution. Any other copying, communicating, or distribution of any content provided in this course, except as permitted by law, may be an infringement of copyright if done without proper license or the consent of the copyright owner. Examples of infringing uses of copyrighted works would include uploading materials to a commercial third party web site, or making paper or electronic reproductions of all, or a substantial part, of works such as textbooks for commercial purposes.

Students who upload to CourseLink copyrighted materials such as book chapters, journal articles, or materials taken from the Internet, must ensure that they comply with Canadian Copyright law or with the terms of the University’s electronic resource licenses.

For more information about students’ rights and obligations with respect to copyrighted works, review [Fair Dealing Guidance for Students](http://www.lib.uoguelph.ca/sites/default/files/fair_dealing_policy_0.pdf).

http://www.lib.uoguelph.ca/sites/default/files/fair\_dealing\_policy\_0.pdf

### Plagiarism Detection Software

Students should be aware that faculty have the right to use software to aid in the detection of plagiarism or copying and to examine students orally on submitted work. For students found guilty of academic misconduct, serious penalties, up to and including suspension or expulsion from the University can be imposed.

### Recording of Materials

Presentations which are made in relation to course work—including lectures—cannot be recorded or copied without the permission of the presenter, whether the instructor, a classmate or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.