

# CIS\*3110: Operating Systems I: Winter 2022

## Course Information

### Instructor

### Email

Dr. Deborah Stacey    dastacey@uoguelph.ca (put CIS\*3110 on Subject line)

### Lecture Sections

*Section 01:* MWF 11:30 - 12:20 (ROZH 103 or Zoom - see below)

*Section 02:* MWF 08:30 - 09:20 (ROZH 102 or Zoom - see below)

The lectures will be online for the first 2 weeks of the semester (as per the University's announcement on December 15, 2021).

### Zoom Links

Zoom links are on the CourseLink site and were sent by email to every student on January 5, 2022. The other lectures are scheduled to be on campus but it is possible that this will change in the new year. Updates will be posted on CourseLink.

### Lab Sections

*Lab sections* will function as TA office hours and be held over Zoom or in class. Zoom links will be posted on CourseLink during the first week since labs will start in Week 2.

### Calendar Description

Operating Systems in theory and practice. Components in a system: scheduling and resource allocation; process management, multi-programming, multi-tasking; I/O control and file systems; mechanisms for client-server computing. Examples from contemporary operating systems.

*Prerequisite(s):* CIS\*2500, (CIS\*2030 or ENGG\*2410)

### Topics

- Operating System Concepts
- Operating System Structures
- Processes
- Threads
- Scheduling
- Mutual Exclusion
- Memory Management
- Virtual Memory
- File Systems
- Networking
- VMs and Distributed Systems

**Required Text**

Operating System Concepts, Silberschatz, et al., 10th Edition, Wiley, 2020

Available in e-book form for rental (link is on CourseLink) and physical form from the bookstore (<https://bookstore.uoguelph.ca/>)

**Method of Evaluation**

- Assignments: 3 Individual Assignments [3 X 20% = 60%]
- Examinations: Midterm Exam [15%] and Final Exam [25%]

You must pass each section (assignments and examinations) to pass the course.

**Disclaimer from the University Administration**

Please note that the ongoing COVID-19 pandemic may necessitate a revision of the format of course offerings, changes in classroom protocols, and academic schedules. Any such changes will be announced via Courselink and/or class email. This includes on-campus scheduling during the semester, mid-terms and final examination schedules. All University-wide decisions will be posted on the COVID-19 website (<https://news.uoguelph.ca/2019-novel-coronavirus-information/>) and circulated by email.

## **Course Policy Statements**

### **Email Communication**

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

### **CourseLink**

Course announcements are posted on CourseLink and thus students are required to check the CourseLink site daily.

### **Presentation Recordings**

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

### **On-Line Classes**

- Do not redistribute recorded interactive discussions that involve your classmates. This includes advising times and question and answer sessions with the instructor.
- Online activities such as advising times, question and answer sessions, and interactive lectures may be recorded by the instructor or TAs and posted to Courselink. By taking this course you are agreeing that your participation in these activities can be used in this manner. If you do not wish to have your image or voice recorded as part of these activities then either do not take this course or do not ask verbal questions during these activities.
- A reliable internet connection that is sufficient for online learning is necessary for this course. If you do not have a sufficiently fast and reliable internet connection then you may not be able to view or download lectures or other course material. It may also not be possible to attend online advising with teaching assistants or the instructor.
- This course is offered in the eastern standard time zone (EST). While taking this course then you may be required to attend online activities such as advising times or labs between 09:00 and 16:30 EST.
- Keep copies of assignments which you have submitted. You may be asked to resubmit assignments at a later time.

## **When You Cannot Meet a Course Requirement**

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons please advise the course instructor (or designated person, such as a teaching assistant) in writing, with your name, id number, and e-mail contact. The grounds for Academic Consideration are detailed in the Undergraduate and Graduate Calendars.

### **Undergraduate Calendar - Academic Consideration and Appeals**

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

### **Graduate Calendar - Grounds for Academic Consideration**

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

## **Did you really read this far into the course outline?**

You should be rewarded for your determination and hard work since these outlines are so very boring. Go to the course Discord server before the end of the first week of classes and DM me with your real name and reason why you read so far and then you will be rewarded (it's a surprise!).

## **Drop Date**

Students will have until the last day of classes to drop courses without academic penalty. The deadline to drop two-semester courses will be the last day of classes in the second semester. This applies to all students (undergraduate, graduate and diploma) except for Doctor of Veterinary Medicine and Associate Diploma in Veterinary Technology (conventional and alternative delivery) students. The regulations and procedures for course registration are available in their respective Academic Calendars.

### **Undergraduate Calendar - Dropping Courses**

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

### **Graduate Calendar - Registration Changes**

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/genreg-reg-regchg.shtml>

## **Copies of Out-of-class Assignments**

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

## Accessibility

The University promotes the full participation of students who experience disabilities in their academic programs. To that end, the provision of academic accommodation is a shared responsibility between the University and the student. When accommodations are needed, the student is required to first register with Student Accessibility Services (SAS). Documentation to substantiate the existence of a disability is required; however, interim accommodations may be possible while that process is underway. Accommodations are available for both permanent and temporary disabilities. It should be noted that common illnesses such as a cold or the flu do not constitute a disability. Use of the SAS Exam Centre requires students to book their exams at least 7 days in advance and not later than the 40th Class Day. Information can be found on the SAS website <https://www.uoguelph.ca/sas>.

## Academic Integrity

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 encourages academic integrity. 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.

### **Undergraduate Calendar - Academic Misconduct**

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

### **Graduate Calendar - Academic Misconduct**

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

## Recording of Materials

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the instructor, a student, or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.

## **Resources**

The Academic Calendars are the source of information about the University of Guelph's procedures, policies, and regulations that apply to undergraduate, graduate, and diploma programs.

### **Academic Calendars**

*<https://www.uoguelph.ca/academics/calendars>*