

# CIS\*4010: Cloud Computing

*Winter 2020*

## Course Information

Instructor	Office	Email
Dr. Deborah Stacey	Reynolds 3301	dastacey@uoguelph.ca
<b>Lectures</b> Tuesday, Thursday 11:30AM to 12:50PM in MCKN 116		
<b>Calendar Description</b>  This course introduces students to fundamentals of cloud computing and software development for cloud platforms. It covers topics such as virtualization, architecture of cloud systems, programming for the cloud, resource management, as well as privacy and security issues. Prerequisite(s): CIS*3110		
<b>Topics</b>  1. Introduction to the Cloud 2. Storage - Managing Data in the Cloud 3. Computing in the Cloud a) Virtual Machines b) Containers 4. Clouds - AWS and Azure (more information on CourseLink) 5. Management, Monitoring, Performance 6. Cloud as Platform 7. Security		
<b>Required Text</b>  <i>Cloud Computing for Science and Engineering</i> <ul style="list-style-type: none"><li>• Available online at <a href="https://cloud4scieng.org/">https://cloud4scieng.org/</a></li></ul>		
<b>Method of Evaluation</b>  <ul style="list-style-type: none"><li>• 3 Individual Assignments [2 X 20%, 1 X 25%]</li><li>• Final Team Project [35%]<ul style="list-style-type: none"><li>• Report [25%]</li><li>• Presentation [10%]</li></ul></li></ul>		

<b>Evaluation Schedule</b>	
Week 1	Pick teams, get free AWS and Azure accounts
Week 3	First assignment due
Week 4	Project proposal due
Week 6	Second assignment due
Week 9	Third assignment due
Week 11	Project report due
Weeks 11 and 12	Project presentations given in class

## University 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.

### 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>

### 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**

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.

## **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>