

CIS*3210 Computer Networks

Fall 2017



School of Computer Science

1 INSTRUCTIONAL SUPPORT

Section 01: M/W/F 10:30AM in. CRSC 116

Instructor:	Dr. Denis Nikitenko
Office:	MCLN 214
Email:	dnikiten@uoguelph.ca
Office hours:	M/W/F 1pm-3pm (MCLN 214)

Teaching Assistant:	Jaspinder Kaur
Email:	ta3210@socs.uoguelph.ca
Office Hours:	Regular lab times

2 LEARNING RESOURCES

2.2 Course Website

Course material, news, announcements, and grades will be regularly posted to the CIS*3210 website which can be found at <https://moodle.socs.uoguelph.ca>. You are responsible for checking the site regularly.

- **Lecture Information:** Selected notes will be posted on the course website as instructors have time to make them available. You are expected to take your own notes during lecture.
- **Labs and Tutorials:** Selected tutorial and lab materials will be available on the course website.
- **Assignments:** Assignment descriptions are found on the course website. Assignments are submitted via the course website.

2.3 Required Textbook

Computer Networking: A Top-Down Approach, 7th ed. J. Kurose and K. Ross

2.4 Calendar Description

This course covers the high-level (protocol) oriented aspects of computer networks, specifically: application, session, transport and network layers. It includes the Internet, socket-level programming, multimedia and quality of service issues. The hardware aspects (switches, LANs, modems, transmission paths) are only covered at a functional level.

The Academic Calendars are the source of information about the University of Guelph's procedures, policies and regulations which apply to undergraduate, graduate and diploma programs: <http://www.uoguelph.ca/registrar/calendars/index.cfm?index>

3 ASSESSMENT

3.1 Dates and Distribution

<i>Assessments</i>
Assignments (4, 50%) <ul style="list-style-type: none">- Assignment 1 (Oct. 2)- Assignment 2 (Oct. 23)- Assignment 3 (Nov 13)- Assignment 4 (Nov 29)
Quizzes (10, 2% each, 20%). Eight best quizzes out of ten will be selected. <ul style="list-style-type: none">- Friday class, Weeks 1 - 4, 6 - 11
Final exam (30%) - Dec 7, 11:30AM - 01:30PM, room TBA

3.2 Course Grading Policies

Development environment: Systems and software are provided in the labs for use in assignments. Students who choose to develop their assignments on other systems and/or with other versions of software are fully responsible for ensuring compatibility with the lab systems for marking purposes.

Extensions: Due date extensions are only declared for catastrophic reasons such as server failures and snow closures. Assignments and midterms in other courses are not grounds for extensions.

Late Assignments: All assignments are due at 9am on the due date. Late assignments will be accepted for 12 hours after the deadline and penalized at 2% per hour. Assignments that are more than 12 hours late - i.e. submitted after 9pm on the due date - will **not** be accepted, and will automatically receive the grade of **zero** (0). See below for compassionate exceptions.

Compiler errors: Program code which does not compile will not be accepted for marking and a grade of **zero** (0) will be assigned. Code that does not compile “clean” will lose marks for compiler warnings.

Submission errors: Failure to submit assignments correctly (e.g., incorrect file names, faulty/missing makefile, bungled use of subversion, etc.) will result in a mark penalty.

Regrades: Requests for regrades of assignments/quizzes/midterm must be made within 5 business days of receiving your mark. Regrade requests must be made in person or emailed to TA.

Individual/group work: Some assignments will be individual, while others will be group work. This will be clearly stated in the assignment description. Make sure you read each assignment description carefully. Submission of a group project when for an assignment that requires individual work will be treated as a Academic Misconduct.

Missed Assessments: If you are unable to meet an in-course requirement due to medical, psychological, or compassionate reasons, please make an appointment to meet your course instructor. Please see below for specific details and consult the undergraduate calendar for information on regulations and procedures for Academic Consideration:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/co8/co8-ac.shtml>

Accommodation of Religious Obligations: If you are unable to meet an in-course requirement due to religious obligations, please email the course email address **within two weeks of the start of the semester** to make alternate arrangements. See the undergraduate calendar for information on regulations and procedures for Academic Accommodation of Religious Obligations: <http://www.uoguelph.ca/registrar/calendars/undergraduate/current/co8/co8-accomrelig.shtml>

4 TEACHING AND LEARNING ACTIVITIES

4.1 Lecture and Lab Schedule

Lectures	Lecture Topics	Quizzes	Assignments
Week 0 (Sept 8)	Course Introduction		
Week 1 (Sept 11,13,15)	Networking overview: media, layers, protocols	Quiz 1	
Week 2 (Sept 18,20,22)	Network programming fundamentals	Quiz 2	
Week 3 (Sept 25,27,29)	Application layer protocols: case studies	Quiz 3	Assignment 1
Week 4 (Oct 2,4,6)	Concurrency and network programming	Quiz 4	
Week 5 (Oct 11,13)	Transport layer		
Week 6 (Oct 16,18,20)	Network layer	Quiz 5	Assignment 2
Week 7 (Oct 23,25,27)	Application layer protocols revisited	Quiz 6	
Week 8 (Oct 30, Nov 1,3)	Distributed application development	Quiz 7	
Week 9 (Nov 6, 8,10)	Network security fundamentals	Quiz 8	Assignment 3
Week 10 (Nov 13,15,17)	Web and web programming	Quiz 9	
Week 11 (Nov 20,22,24)	Broadband Networks, Multimedia Traffic	Quiz 10	
Week 12 (Nov 27,29, Dec 1)	Special Topics		Assignment 4

4.4 Important Dates

Friday September 8: First day of class
Monday October 9: No Classes (rescheduled to December 1)
Friday November 3: 40th Class Day - last day to drop
Friday December 1: Last day of CIS*3210
Friday December 15: Last day of exams

5 ROLES AND RESPONSIBILITIES

5.1 Communication & Email Policy

Major announcements will be posted to the course website and the discussion forums. **It is your responsibility to check the course website regularly.** As per university regulations, all students are required to check their <mail.uoguelph.ca> e-mail account regularly: e-mail is the official route of communication between the University and its students.

5.2 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, classmate or guest lecturer. Material recorded with permission is restricted to use for that course and may not be posted on any public space unless further permission is granted.

5.3 Instructor's Role and Responsibility to Students

The instructor's role is to develop and deliver course material in ways that facilitate learning for a variety of students. Selected notes will be made available to students on the course website but are not intended to be stand-alone. During lectures, the instructor will expand and explain the content of notes and provide example problems that supplement posted notes. Scheduled classes will be the principal venue to provide information and feedback for exams and assignments.

5.4 Students' Learning Responsibilities

Students are expected to take advantage of the learning opportunities provided during lectures, labs and help sessions. Students, especially those having difficulty with the course content, should also make use of other resources recommended by the instructor. Students who fall behind due to illness, work, or extra-curricular activities are advised to keep the instructor informed as early as possible. This will allow the instructor to recommend extra resources in a timely manner and/or provide consideration if appropriate.

6 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 discourages misconduct. All students who take a SOCS course must pass the **Academic Integrity Self Test**.

For educational purposes, instructors impose conditions on assignments that may limit students' permission to collaborate with others or to utilize external sources (including, but not limited to, software, data, images, text, etc.). Any permitted utilization must be done with proper references. Aiding and abetting is a punishable offence; students must be careful not to help others commit offences by giving out solutions or providing to access computer accounts. Instructors may use automated tools to detect possible cases of academic misconduct.

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.

The Academic Misconduct Policy is detailed in the Undergraduate Calendar:

<http://www.uoguelph.ca/registrar/calendars/undergraduate/current/co8/co8-amisconduct.shtml>

The SOCS Academic Integrity Unit:

<http://moodle.socs.uoguelph.ca/course/view.php?id=2> Login with your central login credentials. The key to use is "imhonest".

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

For more information, contact SAS at [519-824-4120](tel:519-824-4120) ext. 56208 or email csd@uoguelph.ca or see the website:

<http://www.uoguelph.ca/csd/>