**Carleton University**

**School of Computer Science**

**COMP 3000**: **Operating Systems**
Winter 2016

**Instructor:**

Mengchi Liu
mengchi@scs.carleton.ca

Herzburg 5364

**Lectures:** Tuesday and Thursday: 14:35-15:55 ME3380

**Office Hours:** Tuesday 13:30-14:30 or by appointment

**Teaching Assistants:**

Basim Ramadhan mailto:basim.ramadhan@gmail.com

Office Hours: TBA 1170HP

Ali Davoudian alidavoudian@cmail.carleton.ca

Office Hours: TBA 1170HP

**Textbook:**

Andrew S. Tanenbaum and Herbert Bos: **Modern Operating Systems** (Fourth Edition), Pearson, 2015.

Class presentations will at times go beyond the contents of the textbook, which provides supporting and complementary material. Participation in the lectures is extremely important.

**Course Description:**

A first course in operating systems stressing fundamental issues in design and implementation:

* Process and thread management (Chapter 2);
* Process co-ordination and synchronization (Chapter 2);
* Interprocess communication (Chapter 2);
* Memory Management (Chapter 3);
* File Systems (Chapter 4)
* Input/Output (Chapter 5);
* Deadlocks (Chapter 6)

**Prerequisites:**

COMP 2401 or SYSC 2006
COMP 2402 or SYSC 2100
Note that COMP 3000 precludes additional credit for SYSC 3001.

**Course Objectives:**

Students will learn how modern operating systems are designed and implemented, especially the fundamentals of Unix and Linux-based operating systems Assignments involve the use of Linux-based operating system.

**Course Information:**

All important information, such as announcements, assignments, solutions, lecture notes, marks, and TA office hours, will be available in *culearn*.

**Marking Scheme:**

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| --- | --- |
| Assignments (8)                          | 40% |
| Midterm | 20% |
| Final (Scheduled centrally) | 40% |

**Assignment Policy**

1. Collaborating on assignments is strictly disallowed. You must complete the work by yourself. If you need help, please see a TA or the instructor during their office hours.
2. Posting assignment solutions on discussion boards before the due date and time is prohibited.
3. Any issues regarding assignment and midterm marks should be brought to the attention of the TA who marked it (only if the TA does not address the problem to your satisfaction should you bring the matter to the instructor). This should be done *no later than two weeks* after the marks of this assignment are posted. After this time, no remarking will be done.
4. Late assignments will not be accepted.

**Undergraduate Academic Advisor**

The Undergraduate Advisor for the School of Computer Science is available in Room 5302C HP, by telephone at 520-2600, ext. 4364 or by email at *undergraduate\_advisor@scs.carleton.ca*. The undergraduate advisor can assist with information about prerequisites and preclusions, course substitutions or equivalencies, understanding your academic audit and the remaining requirements for graduation. The undergraduate advisor will also refer students to appropriate resources such as the Science Student Success Centre, Learning Support Services and the Writing Tutorial Services.

**University Policies**

**Student Academic Integrity Policy.** Every student should be familiar with the Carleton University student academic integrity policy. A student found in violation of academic integrity standards may be awarded penalties which range from a reprimand to receiving a grade of F in the course or even being expelled from the program or University. Some examples of offences are: plagiarism and unauthorized co-operation or collaboration. Information on this policy may be found in the Undergraduate Calendar.

**Plagiarism.** As defined by Senate, "plagiarism is presenting, whether intentional or not, the ideas, expression of ideas or work of others as one's own". Such reported offences will be reviewed by the office of the Dean of Science.

**Unauthorized Co-operation or Collaboration.** Senate policy states that "to ensure fairness and equity in assessment of term work, students shall not co-operate or collaborate in the completion of an academic assignment, in whole or in part, when the instructor has indicated that the assignment is to be completed on an individual basis". Please refer to the course outline statement or the instructor concerning this issue.

**Academic Accommodations for Students with Disabilities.** The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD),

Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodations in this course, please contact PMC at

613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your Letter of Accommodation at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website for the deadline to request accommodations

for the formally-scheduled exam (if applicable) at <http://www2.carleton.ca/pmc/new-and-current-students/dates-and-deadlines>

**Religious Obligation.** Write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details visit the Equity Services website: <http://www2.carleton.ca/equity/>

**Pregnancy Obligation.** Write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details visit the Equity Services website: <http://www2.carleton.ca/equity/>

**Medical Certificate.** The following is a link to the official medical certificate accepted by Carleton University for the deferral of final examinations or assignments in undergraduate courses. To access the form, please go to <http://www.carleton.ca/registrar/form>