Brock University
Computer Science
COSC 2P13 - Computer Systems
Spring 2015

Instructor: Kelly Moylan kmoylan@brocku.ca
Office Hours: Tuesday & Thursday 1:30PM – 3:00PM in J328
Prerequisite: COSC 2P12 60%+ grade or permission of instructor/chair

Course Description
To give students an insight into the principles of operation and construction of computer systems, with focus on operating systems and networking. Upon completion of the course the students should be able to independently get familiar with any computer system of their choice, after the perusal of appropriate manuals.

Textbook
Operating Systems - 8th Edition,

Topics Covered
Computer systems: Hardware and its basic functionality; Operating systems: Functional overview; Processes, their description and control; Threads; Concurrency: issues of mutual exclusion and synchronization, deadlock and starvation; Memory management issues; Virtual memory; Scheduling of uniprocessors, multiprocessors, multi-core processors; Real-time scheduling; File systems and I/O management; Virtual machines; OS Security; Networking; Distributed processing, Client/Server and Clusters.

Mark Distribution
Assignments (3): 45%
Mid-Term Test: 15%
Final Exam: 40%

Important Dates
• Last date for withdrawal without academic penalty: Wednesday, June 17th
• Last date to receive notification of at least 15% of final grade: Wednesday, June 10th
• Victoria Day (Monday, May 18th) make up day: Friday, May 22nd
Canada Day (Wednesday, July 1st) make up day: TBA

Course Policies

**Illness:** If you miss a test or coursework due to illness, you must submit a student medical certificate ([http://www.cosc.brocku.ca/forms/medical](http://www.cosc.brocku.ca/forms/medical)) within 3 days of return from illness, at the main office in the Computer Science department.

**No Lates:** Late assignments/project will **NOT** be accepted (i.e. 100% penalty)

**Plagiarism:** The department views plagiarism as a serious issue. Students may visit [http://www.cosc.brocku.ca/about/policies/plagiarism](http://www.cosc.brocku.ca/about/policies/plagiarism) to view the department's policies on plagiarism. Electronic plagiarism detection / comparison software may be used to compare assignments.

**Final Exam:** To pass this course, you must obtain a mark of at least 40% on the final exam.

**Midterm Test:** The midterm test will be given during class time, tentatively scheduled Thursday, June 4th – (date subject to change if necessary)

Notes

- A mark of at least 40% on the final exam is required in order to pass the course (as mentioned above).
- Questions during class are highly encouraged.
- Assignments will be posted on the course website. Due dates for assignments will be printed on the assignment text. You are strongly encouraged to hand in all assignments even if incomplete. All hard-copy assignments must be submitted in the 2P13 assignment box. Instructions for electronic submission will be provided when required.
- All assignments are to be **completed individually**.
- A cover page available from [http://www.cosc.brocku.ca/coverpage](http://www.cosc.brocku.ca/coverpage) must be submitted with each assignment.
- As part of Brock University's commitment to a respectful work and learning environment, the University will make every reasonable effort to accommodate all members of the University community with disabilities.
- If you require academic accommodations related to a permanent disability to participate in this course, you are encouraged to contact the Student Development Centre Services for Students with Disabilities (4th Floor Schmon Tower ext. 3240) and also to discuss these accommodations(s) with the instructor.
- Help for general questions and assignment related issues can be addressed during office hours or during the COSC help desk in MCJ328. Scheduled help desk hours can be found at: [http://www.cosc.brocku.ca/help](http://www.cosc.brocku.ca/help).