

COSC 2P13: Introduction to Operating Systems

Course Outline

Preliminaries

Course Title: COSC 2P13: Introduction to Operating Systems

Term: Spring 2012

Lectures Times: Tuesday & Wednesday, 3:00PM – 5:00PM, May 1 – July 4, 2011.

Lecture Location: GL 164

Midterm exam: June 13, 2012, during class

Final Exam: Monday, July 9, 2012 at 2:00 – 5:00, location TBD

Instructor: Robert J. Teather (rteather <at> brocku <dot> ca)

Office Hours: Wednesdays, 1:00PM – 3:00PM in MC J304

TA/Marker: TBD

Course Web Site: <http://www.cosc.brocku.ca/offering/cosc2p13/>

Calendar Description: Operating systems from a user's viewpoint. Emphasis on the functionality of operating systems rather than their implementation. Topics include file, processor, I/O and memory management; concurrent processes; mainframe and microcomputer operating systems; UNIX.

Prerequisites: COSC 2P12 (minimum 60 percent).

Textbooks: Andrew S. Tanenbaum. Modern Operating Systems, 3rd edition. Prentice Hall, ISBN: 0136006639.

Grading & Assignment Due Dates (tentative)

Work	Weight	Due Date	Late Date
Assignment 1	15%	May 30	June 2
Assignment 2	15%	June 27	June 30
Midterm exam:	30%	June 13	
Final Exam:	40%	July 9	
Total:	100%		

Notes:

1. The grading of tests and assignments will reflect not only the content of your answers but also the quality of your writing, presentation, etc. Tests may include *essay* questions.
2. In addition to explicitly stated requirements, assignments will be graded on implicit requirements, including, but not limited to, things like coding standards (commenting, indentation, naming conventions, etc.), writing style (grammar, spelling, clarity), following submission instructions, and so on.
3. All assignments are due at **12:00PM** on the due date, unless stated otherwise.
4. A computerized plagiarism detection system (e.g., MOSS, Turnitin.com) will be used on submitted assignments.
5. All tests are *closed-book*. No aids (including electronic dictionaries) are permitted.
6. The mid-term will be held during regular lecture times, see the schedule above.
7. The penalty on late assignment submissions is **25%**. A grade of zero will be given for assignments submitted past the late due date.

8. A mark of at least **40%** on the final exam is required to achieve a passing grade in this course.
9. June 25 is the last day for voluntary withdrawal without academic penalty. At least 15% of your final grade will be available a week before this date.
10. All remarking requests must be submitted in writing with a Re-Mark Request Form (<http://www.cosc.brocku.ca/forms/remark>) **within 1 week** of the assignment grade being posted online. Re-mark requests after this date will **not** be considered *under any circumstances*.
11. If you miss a deadline due to medical reasons, you must complete the Student Medical Certificate (http://www.brocku.ca/webfm_send/1423) and submit it to the instructor **within 3 working days** of the missed deadline. No exception will be permitted without a valid and documented reason (e.g., serious illness or death in the family). Note that both the midterm and final exams are already scheduled – **do not** plan travel on these dates, as travel plans will not be accommodated.
12. If you require academic accommodations related to a disability, contact the Student Development Centre, [Services for Students with disABILITIES](#) (4th floor Schmon Tower ext. 3240) and discuss accommodation(s) with the instructor.
13. Familiarize yourself with the various departmental Policies and Procedures.

Plagiarism Policy

Students must become familiar with the departmental and university policies on academic misconduct. All plagiarism incidents will be reported and penalized in accordance with these policies. Penalties range from a grade of 0 on the piece of work in question, to expulsion from the university. Note that the Computer Science Department views on plagiarism may be more severe than in other disciplines. Departmental plagiarism policies can be found here: <http://www.cosc.brocku.ca/about/policies/plagiarism>

News, Updates, and Correspondence

All correspondence to students is emailed to the Brock email accounts of students registered in the course. It is vital that you activate your Badger account and check it for messages regularly. The news page will contain announcements, corrections, and updates. Students are responsible for checking this regularly.

Tentative Schedule of Course Topics

Week		Topic	Book Readings	Work due
#	Date			
1	May 1 - 2	Introduction, C& Linux Crash Course , OS Overview	Chapter 1	
2	May 8 - 9	<i>No class – instructor away</i>		
3	May 15 - 16	Processes, Inter-process communication, Threads	Chapter 2	
4	May 22 - 23	Threads, Scheduling, Mutual Exclusion		
5 - 6	May 29 – June 6	Deadlock	Chapter 6	<i>Assn. 1, May 30</i>
7	June 12 - 13	Memory Management: Partitioning	Chapter 3	<i>Midterm, June 13</i>
8	June 19 - 20	Memory Management: Virtual memory, Paging, Segmentation		
9	June 26 - 27	File Systems	Chapter 4	
10	July 3 - 4	I/O Devices: Disks, RAIDS, Disk Scheduling, UI Devices	Chapter 5	<i>Assn. 2, June 27</i>