Overview

Welcome to CSCC69H: Operating Systems. The course covers principles of operating systems with a focus on system programming in C. The course is structured around significant programming assignments with theory covered in a miderm test and exam. By the end of the course, you will have experience working with a large, existing C codebase; will understand the importance and difficulty of parallel programming; and will have a working understanding of system calls, processes, the virtual memory system, and the file system.

Contact Information

- **Instructor:** Bianca Schroeder
- **Email:**
  - Instructor: bianca [at] cs.toronto.edu
  - TAs: c69tas [at] cs.toronto.edu
- **Office Hours:** Friday 3-4pm
- **Website and Discussion Board:** The course website is required reading. It contains a calendar, assignment handouts, documentation and tutorials, policies, and more.
  (http://www.cs.toronto.edu/~bianca/cscc69w13/)

Most importantly, the page has a link to a discussion board. With more users, a shared discussion board will help you get a faster response to any questions – but this will only work if you participate!. The board is the best place to get answers to your questions, and we will also use it to post announcements and updates. Don’t be the last to find out the midterm room has been changed – check the board regularly for announcements!

Please follow these guidelines for email correspondence:

1. Read the announcements on the discussion board to see if your question has already been answered.
2. If your question may be of interest to other students (e.g., a question about an assignment), post to the discussion board instead of sending email. If your question is personal (e.g., a question about missing a test due to illness), definitely send email.
3. Use the tutorials to ask questions. That means you should get started with an assignment before the tutorial so you can ask useful questions.
4. If you have to send email and the question is about the course material or assignments send e-mail to the TAs (c69tas [at] cs.toronto.edu). If the question is about course logistics or personal questions send e-mail to the instructor. Include the course number in your subject line (to avoid the spam filter) and an informative topic (for example, "CSCC69: Odd error when compiling OS/161").

Recommended Texts

- **Andrew Tannenbaum:** Modern Operating Systems. Prentice Hall (2001 or 2007).

Marking Scheme

<table>
<thead>
<tr>
<th>Work</th>
<th>Notes</th>
<th>Weight</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignment 1</td>
<td>Implementing a Unix shell</td>
<td>10%</td>
<td>Tue Jan 29</td>
</tr>
<tr>
<td>Assignment 2</td>
<td>Synchronization and Concurrency</td>
<td>10%</td>
<td>Tue Feb 26</td>
</tr>
<tr>
<td>Midterm</td>
<td>In lecture</td>
<td>20%</td>
<td>Fri Feb 14</td>
</tr>
<tr>
<td>Assignment 3</td>
<td>Intro to OS 161 and System calls</td>
<td>8%</td>
<td>Tue Mar 19</td>
</tr>
<tr>
<td>Assignment 4</td>
<td>Virtual Memory</td>
<td>12%</td>
<td>Tue April 9</td>
</tr>
<tr>
<td>Final exam</td>
<td>You must receive at least 40% to pass</td>
<td>40%</td>
<td>See final exam schedule</td>
</tr>
</tbody>
</table>

UTSc University of Toronto, Department of Computer Science
Exercises and assignments

All assignments are to be done in groups of two students. You are expected to register your group in Assignment 1 (follow instructions included in the exercise). Start looking for a group now!

Late Policy

All assignments are submitted electronically and are due at 10 p.m. on the due date. Each student begins the semester with four grace day “tokens”. One token per team member is required to use a grace day. A group may use up to 2 grace days for each assignment. Once the grace day tokens are used up late work will not be accepted. Note that the 10 p.m. submission time and the maximum 2 grace day policy are designed to allow us to discuss assignment solutions in the tutorial or lecture following the due date.

Don’t use all of your tokens at once. Use them wisely to manage your workload throughout the semester. Don’t keep them until the end of the semester, either; we are unable to accept work past the last day of classes.

In the event of an illness or catastrophe, get proper documentation (e.g., medical certificate) and contact me as soon as possible. It is always easier to make alternate arrangements before the due date or test day.

Remarking

Since your assignments are submitted electronically and will usually be tested with the assistance of an automated testing program, you must follow the submission instructions exactly. Assignments that are remarked due to incorrect submission (including errors or warnings that lead to a failed compile) will be assessed a 10% penalty.

Requests for remarking must be submitted no later than one week after the assignment or test has been returned to the class.

Academic Offenses

All of the work you submit must be your own and your work must not be submitted by someone else. Plagiarism is academic fraud and is taken seriously. Please read the Rules and Regulations from the U of T Calendar, especially the Code of Behaviour on Academic Matters.

http://www.artsandscience.utoronto.ca/ofr/calendar/rules.htm

Here are a couple of general guidelines to help you avoid plagiarism:

- Never look at another student’s assignment solution, whether it is on paper or on the computer screen, and never show another student your assignment solution. This applies to all drafts of a solution and to incomplete solutions.
- We encourage you to discuss course concepts and to study for exams with other students, but the assignments should be your and your partner’s work. The easiest way to avoid plagiarism is to only discuss the assignment with your partner or the instructor. Similarly, google (and wikipedia) may help you with course material, but do not use the internet to look for solutions to the assignment problems.