CS537: Introduction to Operating Systems (Fall 2017)

Class meeting times and location: MW 11am-12.15pm, LUB S185

Instructor: Mukul Goyal, EMS919, mukul@uwm.edu

Grader: TBA

Office Hours: Tuesdays 1-2pm and by appointment

Text Books:

1. OPERATING SYSTEMS: INTERNALS AND DESIGN PRINCIPLES SEVENTH EDITION
   Author: William Stallings
   It is not necessary to purchase this book. A copy of the book will be available in UWM Libraries Course Reserve.

2. UNIX Systems Programming: Communication, Concurrency and Threads
   Authors: Kay A. Robbins, Steve Robbins
   Publisher: Prentice Hall; 2nd Revised edition edition (June 27, 2003)
   (Available on Safari Online, which can be accessed via UWM Libraries website)

3. The Little Book of Semaphores
   Author: Allen Downey
   This is an open textbook available on D2L site of the course.

Objectives:
The objective of this course is to provide an introduction to important concepts in process management and memory management.

Course Topics:
Processes, Threads, Scheduling, Concurrency Control, Memory Management, Paging, Segmentation, Virtual Memory.

Grading:
Midterm: 30%, Final Exam: 30%, Quizzes and Homeworks: 40%

The exams will be closed book.
The Final Exam will cover the material covered after the midterm.

**Graduate Student Requirement:**
Graduate students must write a survey report on a topic specified by the instructor. If this requirement is not met the student cannot receive a grade higher than B-.

**Grading Scale:**
At the end of the semester, each student's total percentage score will mapped to a letter grade as follows:

<table>
<thead>
<tr>
<th>Letter</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>&gt;=90</td>
</tr>
<tr>
<td>A-</td>
<td>&gt;=85</td>
</tr>
<tr>
<td>B+</td>
<td>&gt;=81</td>
</tr>
<tr>
<td>B</td>
<td>&gt;=78</td>
</tr>
<tr>
<td>B-</td>
<td>&gt;=75</td>
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<tr>
<td>C+</td>
<td>&gt;=71</td>
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<tr>
<td>C</td>
<td>&gt;=68</td>
</tr>
<tr>
<td>C-</td>
<td>&gt;=65</td>
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<tr>
<td>D+</td>
<td>&gt;=60</td>
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<tr>
<td>D</td>
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<tr>
<td>D-</td>
<td>&gt;=50</td>
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<td>F</td>
<td>&lt;50</td>
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**Policies:**

**Attendance Policy:** Students are expected to attend every class. While the instructor will try to use the course web page and the email to keep the students informed, there is no guarantee that the students will be informed of all the news via the web page of the email. It is the student's responsibility to discover what he or she missed during an absence.

**Smartphone Use During Exams:** Students are not permitted to use smartphones and other similar devices, in any way, while taking exams. Students found using such a device should be considered to be engaged in academic misconduct and should expect to receive a grade of zero on the exam. Students are allowed to silence phones that they mistakenly did not turn off or set to silent mode. But those phones should be put away immediately after being silenced.

Please see the following document regarding various university policies:


**Academic Misconduct**
The university and the instructor expect the highest level of integrity in the conduct of students. Any instance of academic misconduct will be dealt with in accordance with university rules as detailed in

http://uwm.edu/academicaffairs/facultystaff/policies/academic-misconduct/