CS 250: Computer Architecture
Spring 2016
TTH 1:30-2:45, Lab Thursday 3:00-5:00, both in MLH310

Instructor Information
Name: S. Seth Long, Ph.D
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Name: Joshua Rogers
Office: MLH 310
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Office Hours: Monday, Tuesday, and Wednesday 1:00-2:00

Course Website
The course website is located at http://isoptera.lcsc.edu/~seth/cs250. This is where assignments, lecture notes, and examples will be posted.

Course Goals
At the end of the course, students should understand computer architecture including:

- Binary and Hexdecimal numbering systems
- Basic capabilities of a computer.
- Logic and Gates
- Parts of a Computer
- Assembly programming
- The relationship between higher languages such as C and assembly language
- Parallel processing issues on a hardware level

Textbook

Online resources will be posted along with lecture content, which will be sufficient to finish the class without this book. However, the book may provide an advantage in the class, and as such is recommended but not required.

Grading
Your grade will be calculated based on the following items:

<table>
<thead>
<tr>
<th>Item</th>
<th>Percentage of grade</th>
</tr>
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<tbody>
<tr>
<td>Midterm</td>
<td>15%</td>
</tr>
<tr>
<td>Final</td>
<td>20%</td>
</tr>
<tr>
<td>Lab assignments</td>
<td>25% total</td>
</tr>
<tr>
<td>5 Projects</td>
<td>40% total</td>
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Lab assignments will be due at the beginning of the next lab session, thus providing a week to finish them. Grades will be assigned according to a standard curve, that is:

A: 90% +
B: 80% - 90%
C: 70% - 80%
D: 60% - 70%
F: less than 60%

Use of + or - grades (such as B+ or A-) and curves will be at the instructor’s discretion.
Deadlines and late work

Late work will not be accepted. However, partial credit will be given for partially-completed work. It is better to turn in an unfinished assignment for partial credit than to not turn in something on time and receive a 0.

Attendance

Attendance will not be taken in this class except as required for financial aid purposes. However, all material presented during lecture is “fair game” for the midterm and final, and information which is useful to complete projects may be given at any time. Therefore I recommend that you always attend class.

Academic Dishonesty

Cheating on any assignment will result in failing the class. Some things which constitute cheating in this class are:

- Copying another student’s homework
- Turning in homework created by another student
- Reading another student’s answers on a test
- Sharing all or part of your completed homework with another student before the assignment is due

In this class, collaboration is allowed on labs. Appropriate collaboration involves collaborative development of a solution, not copying of a friend’s solution! This does not include projects, which are to be an individual effort. Sharing of ideas or discussing concepts is allowed for projects, but not sharing of source code. Other students should not see your source code or answers for projects, and they should not see yours.