Instructor

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Course Goals

After this course, you should understand: (1) the concept of levels of abstraction, (2) how data is represented on the computer, (3) simple combinational and sequential circuits used to build computer components, (4) how circuits are organized to build a computer, (5) basic assembly language programming, and (6) how high-level programming languages are implemented with respect to the run-time stack and composite data types such as arrays and records.

Prerequisites: None

Completion of Introduction to Computing (810:051) or taking it at the same time as this course is advisable.

Required Text


Assignments

Assignments will be both "pencil-and-paper" exercises and assembly-language programming.

Written Quizzes

I will give a short quiz every Wednesday. You may use any handwritten notes to help you answer the quiz questions. You may not use any books, old quizzes, class handouts, photocopies, or printouts.

Final Exam

A comprehensive final exam for this course is scheduled for 1:00pm Tuesday December 14. As with the quizzes, you may use any handwritten notes. You may not use any books, old quizzes, class handouts, photocopies, or printouts.

Grading

The final grade will be computed as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
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<tbody>
<tr>
<td>Written Quizzes</td>
<td>65%</td>
</tr>
<tr>
<td>Assignments</td>
<td>15%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
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</tbody>
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Electronic Devices in the Classroom

Cell phones, MP3 players, iPods, pagers and PDA's must be turned off during class. Use of personal laptops in class is not permitted. This is due to past problems with people using laptops in class to email, chat, IM, browse, play games, work on assignments for other classes, display images/videos, etc. These activities are incompatible with a college classroom and create a distraction to neighbors and people seated in rows further back. As a result, the UNI Faculty Senate has established a policy that laptops may not be used without instructor consent.

"The Americans with Disabilities Act of 1990 (ADA) provides protection from illegal discrimination for qualified individuals with disabilities. Students requesting instructional accommodations due to disabilities must arrange for such accommodation through the Office of Disability Services. The ODS is located at: 213 Student Services Center, and the phone number is: 273-2676."