<table>
<thead>
<tr>
<th>Instructor</th>
<th>Dr. Mark B. Motl</th>
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<tbody>
<tr>
<td>E-mail</td>
<td><a href="mailto:Mark.Motl@angelo.edu">Mark.Motl@angelo.edu</a></td>
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<td>Office</td>
<td>MCS 205M</td>
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<tr>
<td>Phone</td>
<td>Voice: 486–5420; FAX: 942–2213</td>
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<tr>
<td>Office Hours</td>
<td>MTWRF 1:30 p.m.– 3:30 p.m.</td>
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<tr>
<td>Web Page</td>
<td><a href="http://www.cs.angelo.edu/~mmotl/">www.cs.angelo.edu/~mmotl/</a></td>
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**Objectives**

Basic computer organization with emphasis on machine representation of data and instructions; programming in assembly and machine-oriented languages for real and simulated computers.

**Prerequisite**

CS 1362 (C or better)

**Textbooks**


**Grading**

Your course grade will be based on the following:

<table>
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<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Assignments</td>
<td>30%</td>
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<tr>
<td>Quizzes</td>
<td>10%</td>
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<tr>
<td>Exams</td>
<td>60%</td>
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Overall final average 90%+ = A, 80%+ = B, 70%+ = C, 60%+ = D, <60% = F.

**Assignments**

To receive full credit, assignments are due on the designated date. Late assignments will be penalized 15% for each calendar day beyond the due date. Once an assignment has been graded, it can no longer be submitted for credit. Discussion is encouraged, but you are to do your own work.

All programming assignments will be submitted electronically. More information regarding the procedure for submittal of assignments will be discussed in class.

You are responsible for doing your own work. You may be asked to defend/explain your work at any time. You are encouraged to work with your classmates and use the resources of the Internet to understand and complete the assignments; however, when you submit an assignment, you are verifying that it is your own work. Cheating will not be tolerated.

**Exams**

Four exams will be administered during the semester. There are no provisions for make-up exams. All exams are comprehensive. Parts may be given in the computer lab. Class examinations will be announced at least two classes prior to the examination.

**Attendance**

Attendance is expected, but it will not be used in calculating your final grade.
Academic Honor Code

Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code, which is available on the web at

http://www.angelo.edu/forms/pdf/honorcode5.pdf

Academic Accommodations

“Persons with disabilities which may warrant academic accommodations must contact the Student Life Office, Garden Level, University Center, in order to request such accommodations prior to any accommodations being implemented. You are encouraged to make this request early in the semester so that appropriate arrangements can be made.”

Student Absence for Observance of Religious Holy Day

1) “Religious holy day” means a holy day observed by a religion whose places of worship are exempt from property taxation under Texas Tax Code §11.20.

2) A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence.

3) A student who is excused under section 2 may not be penalized for the absence; however, the instructor may respond appropriately if the student fails to complete the assignment satisfactorily.

Student Learning Outcomes

By completing this course, students will have demonstrated the ability to:

1) Understand the principles of computer architecture as applied to the Intel x86 processor family;

2) Understand data representation, including signed and unsigned integers, real numbers, and character data;

3) Apply the concepts of basic boolean logic to computer hardware and programming;

4) Be familiar with the syntax and constructs of assembly language;

5) Create, compile, link and run assembly language programs using the Microsoft Visual Studio Integrated Development Environment;

6) Construct programs using one or more of the following: sequence, selection, and repetition;

7) Use procedures and arrays; and

8) Solve problems and create solutions using assembly language.

Assessment of Student Learning Outcomes

Methods of assessment:

1) Programming assignments

2) Exams

3) Course exit survey

Course Topics

The following list of course topics is tentative and subject to change and adaptation.

1) Data Representation

2) Assembly Language Fundamentals

3) Data Transfers, Addressing, and Arithmetic

4) Procedures

5) Conditional Processing

6) Integer Arithmetic

7) Advanced Procedures