

Mathematics 3670: Principles of Computer Systems, Fall 2011

Instructor: Dr. Bill Slough **Office hours:** 10:00 – 11:00 MW
9:00 – 11:00 F
and by appointment
Office: Old Main 3212 **Office phone:** 581-7529
E-mail: waslough@eiu.edu **Web site:** www.eiu.edu/~mathcs/mat3670

Prerequisite: Credit for Mathematics 2170.

Text: *Introduction to Computing Systems: From Bits & Gates to C & Beyond, 2nd Edition*, by Y. Patt and S. Patel, McGraw–Hill, 2004.

Overview: The topics covered in the course include: overview of computer systems, data representation, computer organization, instruction sets, syntax and semantics of assembly language programming, addressing modes, the assembly process, implementation of functions, language translation, interrupts, and an introduction to the C programming language.

Laboratories and Exercises: Course materials will be supplemented with laboratories involving hands-on experience. Exercises from the textbook and additional programming assignments will also be utilized to reinforce lecture topics. Unless otherwise indicated, *all assigned work is to be done individually.*

Evaluation: In addition to laboratories and homework exercises, there will be two exams and a comprehensive final, as shown below. Exam dates are tentative.

Exam 1	Wednesday, September 28	25%
Exam 2	Wednesday, November 9	25%
Final	Tuesday, December 13, 8:00–10:00	30%
Laboratories and homework	—as assigned—	20%

The following scale will be used as a first approximation to your grade:

90–100: A 80–89: B 70–79: C 55–69: D 0–54: F

In borderline cases, factors such as overall trends and the final exam score will be taken into consideration. It is possible that the cut-off scores given above will be lowered, but they will not be raised. As a result, an overall score of 80 is guaranteed to receive at least a B, whereas a score of 78 might result in a B.

To receive a final grade of C or better, you must earn a minimum of a C in each of the graded components of this course.

Academic Integrity: It is expected that all work you submit for this class is your own. You are permitted to ask others in the class for help, but you should never simply copy another student's work, nor should you show your work to another student. *Plagiarism will not be tolerated—should it occur, the most likely outcome will be a failing grade in the course.*

(Over)

Miscellaneous:

- Make-up exams are available only with prior notification. If you are unable to contact me by phone or email, you can leave a message with the departmental office (581-2028). Make-up exams are available only if agreed upon before the regular exam is given. Further, it is your responsibility to provide adequate documentation of the reasons for the delay.
- Attendance and participation is an important ingredient of your success in this class. You are responsible for any material you miss.
- Due dates are important and will be strictly observed. *Unexcused late assignments will not be accepted.*
- Please ask questions if you experience problems. Ask in class, in the lab, or see me outside of the regularly scheduled meeting times.
- Be courteous to others: silence your phones while in class.

<p>If you have a documented disability and wish to receive academic accommodations, please contact the Coordinator of the Office of Disability Services (581-6583) as soon as possible.</p>
