

University of Texas at El Paso
Department of Computer Science
Computer Programming Sci/Engr
CS 1420

Course Syllabus
Spring 2008

Instructor: Dr. Rodrigo Romero
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Office Hours: TR, 10:30 – 11:30 a.m. or by apointment

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TA Office Hours: TBD

Course Catalog Description and Objectives

This course will provide an introduction to computers and problem solving with digital computers. A procedural programming language will be utilized to solve scientific and engineering oriented problems. Visualization methods will also be used to provide an experimental approach to problem solving. Upon successful completion of this course, the student will be introduced to computer technology and be able to write programs in C that allow them to solve scientific and engineering problems.

Course Policies

Standards of Conduct: Students are expected to conduct themselves in a professional and courteous manner and maintain academic integrity according to UTEP academic guidelines (<http://www.utep.edu/dos/acadintg.htm>). Students may discuss programming exercises in a general way with other students, but assignment solutions must be done independently. Graded work should be unmistakably your own. You may not transcribe or copy a solution taken from another person, book, or other resource (e.g., a web page). Professors are required to –and will- report academic dishonesty and any other violation of the Standards of Conduct to the Dean of Students (<http://studentaffairs.utep.edu/Default.aspx?alias=studentaffairs.utep.edu/dos>).

Disabilities: If you feel you may have a disability that requires accommodation, contact the Disabled Student Services Office at 747-5148, go to Room 106 E Union, or e-mail dss@utep-DOT-edu (replace “-DOT-” with “.”)

Assignments: Completed lab assignments must be submitted on or before the due date assigned in order to receive full credit. Late assignments will receive a 10 point

deduction for each day that the lab assignment is late. A working and compiled version of the program should be submitted to your TA. A percentage of the grade corresponding to programs having compilation errors will be deducted by your TA.

Grade Assessment

Your semester grade for this class will be based on a combination of 2 midterm exams, quizzes programming assignments, and a final exam as follows:

Programming assignments (grade obtained on the lab)	30%
Reading Quizzes	20%
2 Midterm Exams (15% each)	30%
Comprehensive Final Exam	20%

Tentative Class Schedule

1. Introduction to computers, the Internet, and the WWW
2. Introduction to C programming
3. Structured program development in C
4. Program control
5. Functions
- Midterm Exam 1**
6. Arrays
7. Pointers
8. Character strings
9. Structures, unions, bit manipulations, and enumerations
- Midterm Exam 2**
10. File processing
11. Data structures