CS 1320 Computer Programming for Scientists and Engineers  
Summer 2015 Syllabus

Course Schedule:  
CRN #34155, Monday to Friday from 9:30am - 10:35a.m.  
Location is EDUC (Education Building) 305

Instructor:  
Julio Urenda (jcurenda@utep.edu)  
Monday to Thursday 8:30am to 9:15 am or by appointment  
Location: CCSB 3.1014

TA:  
Yadira Jacquez (yjacquez2@miners.utep.edu)  
Office Hours: TBA  
Location: TBA

Catalog Description: 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. Prerequisite: MATH 1508 or MATH 1411 each with a grade of "C" or better.

Knowledge and Abilities required before the Students Enter the Course: Students entering the course are assumed to have no background in Computer Science or programming. They should be familiar with running everyday software applications and using a computer, and they should be familiar with topics from Pre-Calculus.

Textbook: Reading and laboratory assignment concepts for the course will be mainly based on the C programming language, with examples drawn from the textbook C Programming Absolute Beginner’s Guide (3rd Edition) by Greg Perry and Dean Miller (Que Publishing).

Software: Software used in this course will be the open source, cross platform, IDE Code::Blocks, which can be downloaded from http://www.codeblocks.org. You should download, install, and use the course software on your own computer.

Assignments: Reading and homework assignments will be handed out or announced in class. There is no separate lab time requirement for this course, but you will receive lab assignments and/or other assignments regularly, which you will need to complete outside of class.

Grading: Your semester grade will be based on a combination of homework, lab assignments, attendance, participation, weekly quizzes, midterms, and a final exam. The approximate percentages are as follows:  
• 30% Homework and lab assignments (approximately 6-8 lab assignments)  
• 30% Quizzes, attendance and participation  
• 20% Midterms (2 exams)  
• 20% Final exam
**Homework and Lab Assignments:** Homework and lab assignments are designed to allow you to practice using the concepts presented in lecture and in your reading. Homework and lab assignments may include written problems, tutorial exercises, and programming problems. Assignments usually will be due at the start of class. Late homework/lab assignments will only be accepted by approval, typically with point penalties, within two weeks of the due date. Homework and lab assignments must reflect **individual effort**, unless otherwise instructed. **DO NOT** copy work from other students. For some lab assignments, you may be working on pair or group programming assignments.

**Quizzes, attendance and Participation:** The purpose of each quiz is to ensure that you are staying current with reading assignments and to verify that you have mastered the major concepts of recent lectures. Quizzes typically will be short in length and may include material assigned for upcoming lectures in addition to selected concepts from previous lectures. There will be no make-up on missed quizzes, but the lowest quiz grade will be dropped. Attendance and participation in class activities are part of your grade, as this is a hands-on workshop type of class. To earn full credit for attendance, you should plan to show up on time, stay for the entire session, and work on your assignment, **NOT** visit websites, work on email, text, or conduct other activities unrelated to class assignments.

**Midterms:** The purpose of the exams is to allow you to demonstrate mastery of course concepts. Each exam will focus on the material from the previous weeks. Exams will take place during the regular class session. There will be two exams, contributing 20% to the overall course grade. If you have test-taking difficulties, or have special requirements (for example, needing an exam with larger text), please let me know as soon as possible. Specific exam dates will be announced in class. Make-up exams will be given only in extremely unusual circumstances. If you must miss an exam, please inform the instructor, BEFORE the exam if at all possible.

**Final Exam:** The final exam will be comprehensive and will count 20% toward your course grade. You must take the final exam during the time shown in the schedule, this is University policy. If you have a scheduling conflict (e.g., if you are taking a final at EPCC) or if you are scheduled for three final exams in one day, see the instructor IN ADVANCE.

**Grading:** The nominal percentage-score-to-letter-grade conversion is as follows:
- 90% or higher is an A
- 80-89% is a B
- 70-79% is a C
- 60-69% is a D
- below 60% is an F

**Standards of Conduct:** You are expected to conduct yourself in a professional and courteous manner, as prescribed by the UTEP Standards of Conduct ([http://sa.utep.edu/osccr/student-conduct/](http://sa.utep.edu/osccr/student-conduct/), [http://studentaffairs.utep.edu](http://studentaffairs.utep.edu)). Graded work, e.g., homework and tests, is to be completed independently and should be unmistakably your own work (or, in the case of group work, your team's work), although you may discuss your project with other students in a general way. You
may not represent as your own work material that is transcribed or copied from another person, book, or any other source, e.g., a web page.

Academic dishonesty includes but is not limited to cheating, plagiarism and collusion.

- Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying data (for example program outputs) in laboratory reports.
- Plagiarism occurs when someone represents the work or ideas of another person as his/her own.
- Collusion involves collaborating with another person to commit an academically dishonest act.

Professors are required to -- and will -- report academic dishonesty and any other violation of the Standards of Conduct to the Dean of Students (http://sa.utep.edu/dean).

Disabilities:

If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.

CASS’ Staffs are the only individuals who can validate and if needed, authorize accommodations for students with disabilities.