

INSTRUCTOR

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Office: ENB 213.
MW 9:00 AM – 10:55 AM
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TR 3:00 PM – 4:00 PM, or by appointment

CLASS TIMES**CLASS LOCATION****OFFICE HOURS****COURSE MATERIALS**

- Required C Text: “Sams Teach Yourself C in 24 Hours” (3th Edition) by Tony Zhang. Sams Publishing 2000. ISBN 0-672-31861-X.
- Required Matlab Text: “Getting Started with MATLAB 7” by Rudra Pratap. Oxford University Press 2006. ISBN 0-19-517937-4.
- Supplementary C Text: “C Programming Language” (2th edition) by Brian W. Kernighan, Dennis M. Ritchie. Prentice Hall PTR 1988. ISBN: 0131103628 (Not required to purchase).

COURSE OBJECTIVES

The objective of the course is to give you the tools to develop the skills to solve real Engineering problems using the ANSI C programming language. At the end of the course you will be able to write small to midsize computer programs using the ANSI C language. More specifically, you will create, compile, test and debug C programs. You will be able to employ currently recognized “best practices” in the development of procedural software. You will also be able to use Matlab to do vector and matrix calculations and to plot graphs.

GRADING

You will work on 6 different projects during the class. The last project will be on Matlab exclusively. A project is a program assignment that **you have to complete by your own**. Working alone guarantees you will learn something by the end of the semester. Projects will not be hard so you can be sure you can complete them by your own. Projects will be posted in advance before the due date shown on the schedule. Although programming is the best way to learn in this course, written tests and quizzes will help you divide the learning of the topics.

Grades:

- 6 Projects -----30%
- 2 Quizzes ----- 20%
- MidTerm Exam ----- 25% (06/11/08)
- Final Exam ----- 25% (07/16/08)

Final letter grades will be:

- A = 90% to 100%
- B = 80% to 89%
- C = 70% to 79%
- D = 60% to 69%
- F = Less than 60%

LATE AND MISSED WORK POLICY

No missed quizzes or exams will be excused. Truly exceptional circumstances should be discussed with the instructor. Projects must be submitted on time. Late submissions will not be graded.

ATTENDANCE POLICY

The decision to attend classes is yours. However, having a nearly perfect attendance is typically necessary to pass the course.

ACADEMIC HONESTY

Department policy dictates that if you are academically dishonest, you will get a "FF" in the course. On exams and quizzes you must submit your own work and you may not give or receive help. On assignments and projects you must submit your own work. You may consult with the instructor at any time. Submissions that are "identical" are clear evidence of cheating. More info at:

<http://www.ugs.usf.edu/catalogs/0708/adadap.htm>

NOTE FROM THE PROVOST

“Students who anticipate the necessity of being absent from class due to the observation of a major religious observance must provide notice of the date(s) to the instructor, in writing, by the second class meeting.”

EXPECTED CLASS SCHEDULE

Week	Date	Subject	Assignment
1	M 05/12/08	Getting Started (Ch. 1, 2)	
	W 05/14/08	Structure of a C Program (Ch 2, 3)	
2	M 05/19/08	Datatypes and Keywords (Ch 4)	
	W 05/21/08	Standard Input and Output (Ch 5) & Manipulating Data (Ch 6)	Project 1 due
3	M 05/26/08	No classes	
	W 05/28/08	Mathematical Functions (Ch 9)	Project 2 due
4	M 06/02/08	Conditional Operators (Ch 8) & Controlling Program Flow (Ch 10)	Quiz # 1
	W 06/04/08	Loops (Ch 7)	
5	M 06/09/08	Arrays (Ch 12)	Project 3 due
	W 06/11/08	Midterm Exam 09-11 AM.	
6	M 06/16/08	Pointers (Ch 11)	
	W 06/18/08	Strings (Ch 13)	
7	M 06/23/08	Scope and Storage Classes (Ch 14) Working with Functions (Ch 15)	Project 4 due
	W 06/24/08	Applying Pointers (Ch 16) & Allocating Memory (Ch 17)	Quiz # 2
8	M 06/30/08	Structures (Ch 19) & File Input and Output (Ch 21)	
	W 07/02/08	Introduction to MATLAB. Plotting in MATLAB	Project 5 due
9	M 07/07/08	Programming in MATLAB, MATLAB Scripts	
	W 07/09/08	Publishing Reports, Matrices and Vectors	
10	M 07/14/08	Matrix and Vector Operations	Project 6 due
	W 07/16/08	Final Exam 09-11 AM.	

Note: More information on the course can be found in Blackboard or on my webpage. Selling notes from the class is not permitted, if you want to share, give them for free.