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Summer 2007

CEG 220-01: Introduction to C Programming for Engineers - I

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CEG 220 Introduction to C Programming for Engineers - I

Section 1 – Summer 2007 Tu & Th 6:05 – 7:45 p.m., RC 346
Last Update: June 13, 2007

Description:

This course provides a general introduction to computers as a problem-solving tool using the C programming language. Emphasis is on algorithms and techniques useful to engineers. Topics include data representation, debugging, and program verification. Some programming assignments may involve complex arithmetic and trigonometric and exponential functions. 4 credit hours.

Prerequisites:

MTH 229 (Calculus I) or EGR 101 (Engineering Mathematics). Some prior experience with computing or a programming language is helpful but not required.

Instructor:

Dr. Ronald F. Taylor, RC 356, 775-5122, ronald.taylor@wright.edu
Office hours: 1:00 – 3:00 p.m. Tuesday and Thursday. By appointment also.

Textbook:

C Programming: A Modern Approach, K. N. King, W. W. Norton and Company, 1996,
ISBN 0-393-96945-2.

Software:

Dev-C++ Version 4.9.9.2 for Windows. Free download (9.1 MB) from <http://www.bloodshed.net>

Alternate C compiler is the UNIX GNU C compiler available on the WSU unixapps1 machine. Other C compilers must be approved by the instructor.

Grading:

Two Exams @ 25% each: 50%. One Final: 25%. Six Projects: 25%. Closed book, closed notes Exams and Final. Quizzes may also be given in class, in office oral exam or take-home. Quiz points will be included as part of the 50% exams grade.

Grading scale: **A:** 100-90, **B:** less than 90-80, **C:** less than 80-70, **D:** less than 70-60, **F:** less than 60-0.

Policy:

Quizzes may be announced or unannounced and will usually be given at the beginning or near the end of lecture. Projects are due at the time and date specified on project handout. Use will be made of WebCT for grades and program submittals. No late exams or quizzes unless verifiable emergency. Grade on late Projects will be reduced by 10%. Submittals more than one day late will not be graded - "zero" grade assigned. Exceptions to the late policy may be made unusual circumstances. All work must be your own; sharing of program code will result in a grade of "zero" for all involved. Sharing ideas and general computer skills with others outside of class is encouraged. Students are expected to read and follow the Academic Integrity Policy:

<http://www.wright.edu/students/judicial/integrity.html>

Course Home Page and WebCT:

The Course Home Page will contain lecture materials and assignments:

<http://www.cs.wright.edu/people/faculty/rtaylor/ceg220>

Grades will be posted and programs will be submitted through WebCT. Students should become familiar with WebCT (campus login username and password required) and should read the instructions on the entry page at:

<http://wisdom.wright.edu>

Schedule:

Topics and project dates may vary. Exam dates and times are firm. Sept. 25 - last drop date without grade; Oct 23 - last drop date "W" grade. More specific and detailed reading assignments will be discussed each week in lecture.

Week	Chapter/Sections Study Reference for Lectures	Topics	Project/Exam	Date
1	1, 2, 3	C Fundamentals and Formatted Input/Output		
2	4, 23.3, 7.1-7.5, 23.4	Expressions, Math Functions, Basic Types, Character Functions		
3	5, 6, 18	Selection Statement, Loops, and Declarations	Project 1	Tu June 26
4	22	File Operations	Project 2 Exam 1	Tu July 3 Th July 5
5	9	Functions		
6	9, 10, 8	Functions, Program Organization, and Arrays	Project 3	Tu July 17
7	8, 13, 23.5	Arrays and Strings	Project 4 Exam 2	Tu Th July 26
8	9.6, 11, 12	Recursion and Pointers		
9	16	Structures	Project 5	Tu Aug 7
10	16	Structures and Course Review	Project 6	Tu Aug14
Finals		Final Exam (same classroom)	Final	Th Aug 16 Start 6:05 pm.