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Spring 2005

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 Spring 2005 M & W 6:05 - 7:20 p.m. RC 153

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. Prerequisite: MTH 229 (Calculus I) or EGR 101 (Engineering Mathematics).

Instructor: Dr. Ronald F. Taylor, RC 356, 775-5122, Ronald.Taylor@wright.edu Hours: 1:00 - 3:30 p.m. on M & W and 1:00 - 2:00 p.m. on T & Th. Also by appointment.

Textbook: Engineering Problem Solving with C, Third Edition, D. M. Etter, Prentice Hall, 2005, ISBN 0-13-142971-X.

References : Programming with C, Second Edition, B. Gottfried, Schaum's Outline, 1996, ISBN 0-07-024035-3.
C A Reference Manual, Fifth Edition, S. P. Harbison and G. L. Steele, Prentice Hall, 2002, ISBN 0-13-089592-X.

Software: Visual C++ 6, Microsoft Corp. Students are not required to purchase software as it is available in on-campus computer labs. Programs can be created with any text editor since the source files are simple ASCII files. Other C compilers may be used but the files submitted as Projects must be compatible with Visual C++ 6. Check at the main desk of Dunbar Library about the availability of Microsoft Visual Studio. You only need to load the Visual C++6 software components from the Visual Studio.

Grading: Two Exams: 30% each. **No comprehensive final during finals week.** Quizzes: 5%. Projects: 35%. Closed book, closed notes Exams and Quizzes. Quizzes may be given in class announced or unannounced or as take-home. 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: Projects are due at the time and date specified on project handout. 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 University Academic Integrity Policy: <http://www.wright.edu/students/judicial/integrity.html>

Course Home Page: Some parts of the course web site require a username and password. These will be given during the first class: <http://www.cs.wright.edu/people/faculty/rtaylor/ceg220>

Schedule: Topics and project dates may vary. **Exam dates are firm.** April 15 - last drop date without grade; May 13 - last drop date "W" grade; no class May 30 - holiday.

Week	Read Chapter	Topics	Project/Exam	Date
1	1	Intro to Computers and Problem Solving		
2	2	Simple C Programs	Project 1	April 6
3	3 (start)	Control Structures and Data Files (start)	Project 2	April 13
4	3 (end)	Control Structures and Data Files (end)	Project 3	April 20
5	4	Modular Programming with Functions	Exam 1	April 27
6	4 (end) & 5 (start)	Recursion, Arrays & Matrices (start)	Project 4	May 4
7	5 (finish)	Arrays, Matrices (end) & Strings (start)		
8	6 (start)	Strings (end) & Pointers (start)	Project 5	May 18
9	6 (end) & 7 (start)	Pointers (end), Memory & Structures (start)	Project 6	May 25
10	7 (end)	Structures (end) and Review	Exam 2	June 1
Finals		No exam during finals week		