

Winter 2008

CEG 220-01: Introduction to C Programming for Engineers

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Syllabus
CEG 220 Introduction to C Programming for Engineers
Section 01 – Winter 2008

T Th 12:20 p.m. – 2:00 p.m. in Russ Engineering Center Room 152A

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

Instructor: Dr Jay DeJongh, 341 RC, 775-2555. E-mail: jay.dejongh@wright.edu Office hours: **2:00 - 3:00 Tue.,** 1:00-2:00 Wed. Other hours by appointment.

Textbooks:

C Programming: A Modern Approach, K. N. King, W. W. Norton and Company, 1996.

Software: Dev-C++ Version 4.9.9.2 for Windows. Free download (9.1 MB) from <http://www.bloodshed.net>. An alternate C compiler is the UNIX GNU C compiler. 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. WebCT will be used for grade posting and for program submittals. No late exams or quizzes unless verifiable emergency. Grade on late Projects will be reduced by 10% per day. Submittals more than two days 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>

WebCT:

WebCT will contain lecture materials, assignments and other course handouts:

Jan. 4, 08

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 are firm. Final Exam - Mar 18, 2008; Drop date without grade - Jan 25, 2008; Drop date with a "W" grade – Feb 22, 2008. 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, Programming IDE | | |
| 2 | 4, 23.3, 7.1-7.5, 23.4 | Expressions, Math Functions, Basic Types, Character Functions | Project 1 | Due Tue Jan 15 |
| 3 | 5, 6, 18 | Selection Statement, Loops, and Declarations | | |
| 4 | 22 | File Operations | Project 2 Exam 1 | Due Tue Jan 29 Thu Jan 31 |
| 5 | 9 | Functions | | |
| 6 | 9, 10, 8 | Functions, Program Organization, and Arrays | Project 3 | Due Tue Feb 12 |
| 7 | 8, 13, 23.5 | Arrays and Strings | Project 4 Exam 2 | Due Tue Feb 19 Thu Feb 21 |
| 8 | 9.6, 11, 12 | Pointers | | |
| 9 | 16 | Structures | Project 5 | Tue Mar 4 |
| 10 | 16 | Structures and Course Review | Project 6 | Tue Mar 11 |
| Finals | | Final Exam (152A RC) | Final | Tue Mar 18, 1:00pm - 3:00pm |