

Fall 2008

CEG 220: Introduction to C Programming for Engineers I

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

T Th 12:20 p.m. – 2:00 p.m. in Russ Engineering Center Room 346

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: 3:00-5:00 MW, 3:45-5:00 T TH. Other hours by appointment.

Textbooks:

C Programming: A Modern Approach, 2nd ed, K. N. King, W. W. Norton and Company, 2008.

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

Grading: Two Exams @ 15% each: 30%. One Final: 30%. Six Projects: 40%. Course Exams and the Final Exam will be closed book, closed notes. A one page, 8.5 x 11 help sheet will be allowed. Quizzes may also be given in class, as in office oral exams or as take-home. Quiz points will be included as part of the 30% 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 may be given at the beginning or at the end of the class. Projects are due at the time and date specified on WebCT. 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, projects and other course handouts:

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:

Week 1	Day 1, Sep 9	Intro, C Fundamentals, IDE	Chap 1 Chap 2			
	Day 2, Sep 11	Input/Output Problem Solving	Chap 3		Project 1 Assigned	
Week 2	Day 1, Sep 16	Expressions, Math Operations	Chap 4			Project 1 Due
	Day 2, Sep 18	Basic Data Types, Math, Character Functions	Chap 7.1-7.5 Chap 23.3, 23.5		Project 2 Assigned	
Week 3	Day 1, Sep 23	Selection Statements	Chap 5			
	Day 2, Sep 25	Loops	Chap 6			
Week 4	Day 1, Sep 30	File Ops, Advanced Input/Output	Chap 22		Project 3 Assigned	Project 2 Due
	Day 2, Oct 2	EXAM 1		Exam 1		
Week 5	Day 1, Oct 7	Arrays	Chap 8			
	Day 2, Oct 9	Arrays	Chap 8		Project 4 Assigned	Project 3 Due
Week 6	Day 1, Oct 14	Functions	Chap 9			
	Day 2, Oct 16	Functions, Program Organization	Chap 9 Chap 10			
Week 7	Day 1, Oct 21	Strings Arrays and Strings	Chap 13 Chap 23.6		Project 5 Assigned	Project 4 Due
	Day 2, Oct 23	EXAM 2		Exam 2		
Week 8	Day 1, Oct 28	Pointers	Chap 11			
	Day 2, Oct 30	Pointers and Arrays	Chap 12		Project 6 Assigned	Project 5 Due
Week 9	Day 1, Nov 4	Structures	Chap 16			
	Day 2, Nov 6	Structures Advanced Pointers Header Files	Chap 16 Chap 17.1-17.4 Chap 15.1-15.2			
Week 10	Day 1, Nov 11	Veteran's Day Holiday				
	Day 2, Nov 13	Review				Project 6 Due Friday Nov 14
Finals	Tues, Nov 18 1:00-3:00 pm	Room 346 RC		Final		