

UNIVERSITY OF MASSACHUSETTS LOWELL
Department of Continuing Education

90.267

C Programming

Rev. 1.2

COURSE DESCRIPTION:

This course introduces students to the techniques of programming in C. The language syntax, semantics, its applications, and the portable library are covered. This course is not an introductory course in programming. However, it will teach some of the basics in the first few weeks. Students should have a working knowledge of at least one high-level programming language.

PREREQUISITES:

Previous programming experience

Special Note: Students may not receive credit for both the 90.211/90.212 sequence and 90.267

REQUIRED TEXT:

Programming in C
 Third Edition
 Written by Stephen G. Kochan
 Published by Sams Publishing
 ISBN: 0-672-32666-3

COURSE OUTLINE		
MEETING	READING	TOPICS
1	Ch. 1, 2, 3	Introduction; Course mechanics and requirements; Anatomy of a C Program: Edit, Compile, Link, Execute Cycle; C Programming Examples; Coding Guidelines
2	Ch. 4	Data types, constants, variables, arithmetic operators and expressions. Increment and decrement. Input and Output.
3	Ch. 5	Relational and logical operators. Flow control: while; do-while; for; break; continue statements; if; if-else; switch .
4	Ch. 6	Quiz #1 ; Formatted I/O.
5	Ch. 7	Arrays; Character Strings
6	Ch. 8, 13 Handouts	Working with Functions; Working with large programs: Separate Compilation; The Preprocessor
7	Ch. 9	Structures; More on separate compilation
8		Midterm Examination
9	Handouts Ch. 12	Numbering Systems: Hexadecimal/Octal/Binary representations and conversions; Bit Operators
10	Ch. 11	Bit Fields; Pointers
11	Ch. 11	More on Pointers; Dynamic Memory Allocation
12	Handouts	Quiz #2 ; Data Structures
13	Ch. 16 Appendix B	Input and Output Operation: From Keyboard and from Files; The Standard C Library
14		Final Examination

GRADING POLICY	
Individual Homework Assignments	30%
Midterm Examination	25%
2 Quizzes (each worth 10%)	20%
Final Examination	25%

INSTRUCTOR: Joe Russell

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