



UNIVERSITY OF NEW YORK IN TIRANA Course Syllabus

Course: Programming in C (3 credit hours)

Lecturer: Narasimha Rao V

Office Hours: Monday (10 AM – 5 PM) or By Appointment (TBA).

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Catalog Description

This course introduces students to programming. It should be their first experience with a high level language in Computer Science.

Prerequisite: College Algebra, Computer Application I.

Course Purpose

- To gain basic experience in working with a programming language.
- To be able to analyze and apply the concepts of programming using 'C' language.

Required Readings, Text

Let Us C (Paperback) by Yashavant Kanetkar (Author)

Required Additional Materials

Students will be provided hand outs and extra notes as and when required.

Course Objectives

Upon completion of this course, students should be able to:

- Understand introductory computer science terms.
- Understand a program specification.
- Translate the program specification into the C language
- Compile and execute a C program in a programming environment.
- Debug C programs.

Content of the Course

- Introduction to 'C'
- Variables and Constants.
- Data Types
- Storage Classes
- Sequence, Decision, Loop, Case
- Functions and Recursion
- Pointers and Arrays
- Strings
- Structures and Unions
- File Handling
- Pre-processor Directives
- Bitwise Operators
- Introduction to Object Oriented Programming

Course Requirements

Participation: Participation extends beyond mere attendance. Expect your instructor to keep track of how often you contribute to class discussion (as a whole), particularly during the panel discussion section. You may miss up to three classes without penalty - your first two absences count whether you have a good excuse or not. Each absence beyond the first three will cost you points off of your participation grade. The only exceptions to this rule are severe illness (doctor's note required) and UNYT approved trips/activities. Appropriate documentation for absences beyond the first three is necessary the class day directly before or after the one you miss. In general: this class is intensive and interactive. Missing class could seriously affect your grade! Students are reminded not to approach the instructor for copies of the previous week's materials during immediately before, during, or immediately after class. Students are expected to collect materials from their classmates or see the instructor during consultation hours.

Exams: Two examinations will be taken, a midterm and a final exam covering all course content during the final examination period. Test format may combine a mixture of short answer, true/false, matching, sort answer, and one or two essay questions covering *all* readings, lecture, hand-out and class discussion content.

Final Examination: To be Announced

General Requirements

Late assignments and absence from tests will *not* be tolerated. *In the event of illness or emergency, contact your instructor IN ADVANCE to determine whether special arrangements are possible. The University's rules on academic dishonesty (e.g. cheating, plagiarism, submitting false information) will be strictly enforced. Please familiarize yourself with the STUDENT HONOUR CODE, or ask your instructor for clarification.*

Criteria for Determination of Grade, including Evaluation Methods

Quizzes	15%
Assignments(Home & Lab Practice)	15%
Midterm	30%
Final	40%

Grading Scale

Letter Grade	Percent (%)	Generally Accepted Meaning
A	96-100	Outstanding work
A-	90-95	
B+	87-89	Good work, distinctly above average
B	83-86	
B-	80-82	
C+	77-79	Acceptable work
C	73-76	
C-	70-72	
D+	67-69	Work that is significantly below average
D	63-66	
D-	60-62	
F	0-59	Work that does not meet minimum standards for passing the course

Bibliography (Additional Readings)

- Programming in C (3rd Edition) (Developer's Library) by Stephen Kochan
- Test your C Skills, Yashavant Kanetkar, BPB Publications.
- C Programming Language by Ritchie Kernighan (Paperback - Mar 1, 1990)
- Absolute Beginner's Guide to C (2nd Edition) by Greg Perry
- C Programming: A Modern Approach, Second Edition by K. N. King

Technology Expectations

- Software Required: GNU C Compiler (Open Source), Cygwin.
- Students can get all the Lecture Slides, notes and other links at the course webpage. The link for the course web page will be provided on the day of the first class.
- Students must keep copies of all assignments and projects sent by e-mail.
- Assignments are to be word-processed. Continuing and regular use of e-mail is expected.

Date: November 3, 2007.

Prepared by: Narasimha Rao V.