



## Course Outline

Lecture 2 hrs/wk  
Lab 2.5 hrs/wk

Professor: Nadir Ould-Khessal  
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Prerequisite: None  
Co-requisite: None  
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### Description:

This course provides the basic skills and concepts required to write programs using a compiler on a PC. Software topics include arithmetic and logic operations, variable and constant data, functions, input and output, the preprocessor, arrays, structures, unions, pointers, file I/O and some standard library functions. Students will be introduced to interfacing and control concepts.

### Major Topics:

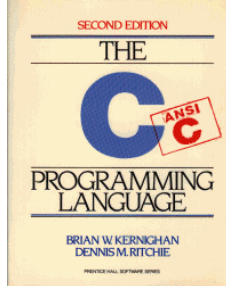
1. Introduction and Program Fundamentals
2. Variables, Constants, Data Types, and Expressions
3. Looping Constructs
4. Decision Making
5. Bitwise Operations and Input/Output
6. The Preprocessor
7. Functions
8. Arrays
9. Structures
10. Unions
11. Pointers
12. File I/O
13. Some standard library functions
14. Interfacing and control

### Objectives:

1. Develop the basic skills required to create and debug modular programs using a C compiler.
2. Become familiar with interfacing and control concepts.

## Course Materials:

1. ELEN Lab Manual. Power point presentations and supplementary notes. (Available in course pipeline @ <http://my.okanagan.bc.ca/> )
2. Text book : The C Programming Language, Second Edition (optional)



3. Ref book : C++ from the Ground Up by Herbert Schildt or as specified (optional)

## Marks Distribution:

Assignments	15%
Labs	15%
Mid Term Test	30%
Final Examination	40%

Students must obtain passing averages in the tests and final exam in order to qualify for a grade above a "D" or 54%.

## Standardized Grading System

(see OC Calendar)

90 – 100	A+	
85 – 89	A	(A Grades = First Class)
80 – 84	A-	
76 – 79	B+	
72 – 75	B	(B Grades = Second Class)
68 – 71	B-	
64 – 67	C+	
60 – 63	C	(C Grades = Pass)
55 – 59	C-	
50 – 54	D	(D = Marginal Pass)
0 – 49	F	(F = Fail)

## Student Conduct

(see OC Calendar)

## Student Attendance

(see OC Calendar)