

COMPUTER INFORMATION SYSTEMS 2541

C++ Language Programming

This is an information sheet only, not the course syllabus.

COURSE DESCRIPTION

Introduction to C++ Language Programming, an object oriented programming language. Includes C++ data types, operators, expressions, control structures, functions, arrays, pointers, strings, Abstract Data Types (ADTs), classes, inheritance, polymorphism, virtual functions, and file input/output. Emphasis on building the foundation to understand the capabilities of the C++ programming language and the skills to develop practical procedural and object oriented applications. **Prerequisite:** CIS1400 or consent of instructor. (4 credit hours)

REQUIRED AND RECOMMENDED COURSE MATERIALS

Please follow the instructions below to locate information on the textbook and other materials for this course.

1. From [COD home page](#), click on **myACCESS**.
2. Click on **Search for Credit Classes**.
3. From the **Term** drop-down box select the term.
4. Choose your course from the **Subjects** drop-down menu.
5. In the **Course #** field, enter your course number.
6. In the **Section** field, enter the course section number if known.
7. From the **Course Types** drop-down menu select **Internet/Online**.
8. Scroll to the bottom of the page and click on **SUBMIT**.
9. Click on the **Section Name and Title** link.
10. Click on [Click here for prices of required textbook\(s\) and supplies](#) and course material information will be displayed.

Alternatively, you can visit the [COD Bookstore](#) website to find this information.

COURSE OUTLINE

This course is divided into one online course introductory unit and eleven programming logic conceptual units as listed below. Each unit can consist of reading, online, hands on practice exercises, a submitted assignment, and a test. Refer to the syllabus for assignment and test due dates.

Topics
Unit 0 – Introduction
Unit 1 – Computers and Programming
Unit 2 – Simple Data Types, Expressions, and Equations
Unit 3 – Selection Control Structures
Unit 4 – Data Input/Output
Unit 5 – Looping Logic Structures
Unit 6 – Arrays
Unit 7 – Modularity
Unit 8 – Advanced Array Processing
Unit 9 – Address Data Types
Unit 10 – Structured Data Types
Unit 11 – Namespaces
Unit 12 – Object Oriented Programming

EVALUATION/GRADING

Points will be distributed in the following manner:

Assignments	365
Assessments	225
Program	80
Total	700

Final Grades will be assigned using the following scale:

Accumulated Points	Grade	Percentage
630 – 700	A	≥ 90
560 – 629.9	B	80 – 89
490 – 559.9	C	70 – 79
420 – 489.9	D	60 – 69
419.9 or lower	F	< 60

SATISFACTORY/FAIL OPTION

The S/F grade option is available to students in this course. Contact the instructor or refer to the syllabus for details and conditions.

INCOMPLETE GRADE POLICY

If you may find that you are unable to complete the course by the end of the semester for some unavoidable reason you may request an Incomplete grade. Contact the instructor or refer to the course syllabus for details.