

# COMPUTER INFORMATION SYSTEMS 2541

## C++ Language Programming

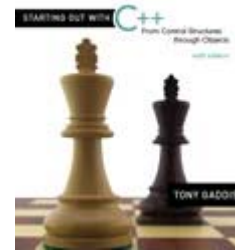
**This is an information sheet only, not the course syllabus.**

### 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)

### COURSE MATERIALS

*Starting Out with C++: From Control Structures through Objects, 6E* by Tony Gaddis, Publisher: Pearson Education, 2009.  
**ISBN: 978-0-321-54588-6.**



### 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.

#### **Units**

- 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	305
Assessments	225
Program	70
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Total	600

Final Grades will be assigned using the following scale:

<b>Accumulated Points</b>	<b>Grade</b>	<b>Percentage</b>
540 – 600	A	$\geq 90$
480 – 539.9	B	80 – 89
420 – 479.9	C	70 – 79
360 – 419.9	D	60 – 69
359.9 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.