



Course Information

Course Title	Introduction to C++ Programming
Course Prefix, Num. and Title	ITSE1307 - Introduction to C++ Programming
Division	Business and Computer Science
Department	Computer Science
Course Type	WECM Course
Course Catalog Description	Introduction to computer programming using C++. Emphasis on the fundamentals of object-oriented design with development, testing, implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files.
Pre-Requisites	None
Co-Requisites	None

Semester Credit Hours

Total Semester Credit Hours (SCH): Lecture Hours:	3:2:2
Lab/Other Hours	
Equated Pay Hours	3
Lab/Other Hours Breakdown: Lab Hours	2
OLab/Other Hours Breakdown: Clinical Hours	0
Lab/Other Hours Breakdown: Practicum Hours	0
Other Hours Breakdown	0

Approval Signatures

Title	Signature	Date
Prepared by:		
Department Head:		
Division Chair:		
Dean/VPI:		
Approved by CIR:		

Additional Course Information

Topical Outline: Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, and clinical or other non-lecture instruction).

- Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, clinical or other non-lecture instruction):
- Introduction to the IDE
- C++ Primitive Data Types
- Expressions
- Decision Operators
- Looping
- Functions
- Classes and Objects
- Arrays
- Pointers
- String Class
- Advanced File I/O

Course Learning Outcomes:

Learning Outcomes	Methods of Assessment
Upon successful completion of this course, students will: Use object-oriented programming (OOP) techniques; develop executable programs; create appropriate documentation; incorporate pointers and/or arrays to manipulate data; and create programs using classes and objects.	All outcomes will be assessed by one or more of the following: Individual/Group Assignments Individual/Group Projects Reading Assignments Presentations Lab Works/Assignments Quizzes/Tests/Exams

Required text(s), optional text(s) and/or materials to be supplied by the student:

- Like Starting out with C++: Early Objects, 8th edition, Tony Gaddis (et al), Addison Wesley, ©2013. ISBN-13: 978-0-133360929
- USB Drive
- High-Speed Internet connection

Suggested Course Maximum: 20

List any specific or physical requirements beyond a typical classroom required to teach the course.

- Computer for each student
- Visual Studio or Eclipse C++ compiler integrated development environment installed

Course Requirements/Grading System: Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course.

Programming Assignments 20-40%

Final Project 20-80%

Midterm Exam 0-40%

Final Exam 0-60%

Attendance & Participation 0-20%

Grading System

100 -90 = A

89 - 80 = B

79 - 70 = C

69 - 60 = D

below = F

Curriculum Checklist:

- Administrative General Education Course** (from ACGM, but not in WCJC Core) – No additional documents needed.
- Administrative WCJC Core Course.** Attach the Core Curriculum Review Forms
 - Critical Thinking
 - Communication
 - Empirical & Quantitative Skills
 - Teamwork
 - Social Responsibility
 - Personal Responsibility
- WECM Course** -If needed, revise the Program SCANS Matrix and Competencies Checklist