

FSU CURRICULUM FILE SYLLABUS

DATE APPROVED _____ (COMPLETED AT UNIV LEVEL)

COURSE PREFIX/NUMBER: COP 3330

COURSE TITLE: Object Oriented Programming

PRE OR COREQUISITES: COP 3014 (pre), COP 3344 (pre/co)

REPEAT CODE: 00

LIST COURSE OBJECTIVES:

Upon completion of the course, the student will:

- Demonstrate the use of arrays and pointers in the solution of programming problems using C++
- Understand the Object Oriented Programming concept and be able to discuss the differences between procedural and object oriented languages.
- Demonstrate the ability to create and use classes within the C++ programming language
- Demonstrate the ability to create, compile, and execute programs within the Microsoft Visual C++ environment and the UNIX environment, using the Object-Oriented design model.
- Be able to program using important C++ techniques, such as composition of objects, operator overloads, dynamic memory allocation, inheritance and polymorphism, file I/O, exception handling, templates, preprocessor directives, and basic data structures.

OBJECTIVES SHOULD BE BROADLY STATED TO ALLOW FACULTY DIFFERENCES AND ALLOW CHANGES IN MODE OF DELIVERY. ENOUGH DETAIL SHOULD BE GIVEN TO DISTINGUISH FROM OTHER COURSES IN ASSIGNMENT OF A SUS COURSE NUMBER. COMMITTEE APPROVALS ARE REQUIRED FOR A CHANGE IN OBJECTIVES.

GIVE BRIEF OUTLINE OF TOPICS TO BE COVERED (NO DATES):

Dynamic Memory Allocation	
Object-Oriented Concepts	
Use of Existing Classes, File I/O	
The UNIX Environment, Preprocessor Directives	
Composition of Objects	
Operator Overloading	
Friends	
Inheritance	
Polymorphism	

Exception Handling	
Vectors	
Templates	
Basic Data Structures	
The Standard Template Library	

EVALUATION CRITERIA. CHECK ONE (CHANGE IN EVALUATION CRITERIA REQUIRES THE DEPARTMENT TO SUBMIT A NEW SYLLABUS FOR THE FILE)

EXAMS ONLY (THE NUMBER AND WEIGHT OF EACH TO BE REFLECTED ON THE STUDENT SYLLABUS)

EXAMS AND OTHER (SUCH AS LAB REPORTS OR ASSIGNMENTS, TERM PAPER OR WRITTEN PROJECT, ORAL PRESENTATION; THE WEIGHT OF EACH TO BE REFLECTED ON THE STUDENT SYLLABUS.)

NO EXAMS - ONLY ASSIGNMENTS (TO BE DESCRIBED CLEARLY ON THE STUDENT SYLLABUS)