

FSU CURRICULUM FILE SYLLABUS

DATE APPROVED _____ (COMPLETED AT UNIV LEVEL)

COURSE PREFIX/NUMBER: CGS 3406

COURSE TITLE: Object Oriented Programming in C++

PRE OR COREQUISITES: MAC 1140 _____ REPEAT CODE: 00

LIST COURSE OBJECTIVES:

A student who has completed this course with a passing grade should be able to:

- *Demonstrate a basic understanding of computer concepts, including software and hardware.*
- *Demonstrate the proper problem-solving approach to programming.*
- *Construct well-designed C++ programs using the basic C++ constructs, including loops and decisions.*
- *Demonstrate an understanding of the object-oriented paradigm.*
- *Demonstrate competence with the use of functions, reference parameters, arrays, pointers, recursion and I/O.*
- *Construct an object-oriented solution to a problem using appropriately designed classes.*

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):

WEEK-BY-WEEK TOPICS:

Week	Topic
1	Introduction to Computers and C++
2	C++ Basics
3	Introduction to Functions
4	More on Functions
5	Exam #1; I/O and Introduction to OOP
6	Defining Classes
7	Flow of Control

	8	Friends and Overloading	
	9	Separate Compilation and Namespaces	
	10	Exam #2; Arrays	
	11	Strings and Vectors	
	12	Pointers and Dynamic Arrays	
	13	Inheritance	
	14	Pointers and Linked Lists	
	15	Final Exam	

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)