



COURSE SYLLABUS

CGS 3406 **Object Oriented Programming in C++**

Prerequisite: MAC 1140

Spring Semester 2006

CLASS SCHEDULE: There will be two 75 minute lectures and one 75 minute recitation per week.

CONTACT:

Professor: Dr. Stephen P. Leach
Email : leach@cs.fsu.edu
Phone : 644-4055
Office: 261 Love Building
Office Hours: TBA

TEACHING ASSISTANT: TBA

COURSE POLICIES:

Assignments/Responsibilities:

Exams	40%
Final Exam	20%
Assignments	40%

Attendance:

Attendance at all lectures and recitations is required, and will be monitored. Each absence (excused or unexcused) in excess of five will result in a one point deduction from your final average.

Missed Exams/Late Assignments:

Students will not be allowed to make up a missed exam due to an unexcused absence. Late assignments will receive a 25% per day (or part thereof) penalty.

Grading/Evaluation:

To pass the course, the student must satisfactorily complete the computer skills competency component. In this context, satisfactory completion refers to a grade of "C-" or better.

92-100	A	88-89	B+	78-79	C+	68-69	D+	0-59	F
90-91	A-	82-87	B	72-77	C	62-67	D		
		80-81	B-	70-71	C-	60-61	D-		

COURSE MATERIAL:

Name: ***Problem Solving with C++, 5th Edition***
 Author: ***Walter Savitch***
 Publisher: ***Addison-Wesley***
 Website: ***<http://www.aw.com/codemate>***

COURSE DESCRIPTION:

An introduction to programming using the language C++ with an emphasis on problem-solving. Topics include a brief introduction to computers, C++ basics, procedural abstraction and functions, an introduction to the object-oriented paradigm, namespaces, arrays, strings and vectors, pointers, and recursion.

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.*

ACADEMIC HONOR CODE:

Students are expected to uphold the Academic Honor Code published in The Florida State University Bulletin and the Student Handbook. The Academic Honor System of The Florida State University is based on the premise that each student has the responsibility (1) to uphold the highest standards of academic integrity in the student's own work, (2) to refuse to tolerate violations of academic integrity in the university community, and (3) to foster a high sense of integrity and social responsibility on the part of the university community.

Please see the following web site for a complete explanation of the Academic Honor Code.

<http://www.fsu.edu/Books/Student-Handbook/codes/honor.html>
<http://www.fsu.edu/Books/Student-Handbook/>

EXAM DATES:

Exam #1: TBA Exam #2: TBA
Final Exam: TBA

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

AMERICANS WITH DISABILITIES ACT:

Students with disabilities needing academic accommodation should: (1) register with and provide documentation to the Student Disability Resource Center; (2) bring a letter to the instructor indicating the need for accommodation and what type. This should be done during the first week of class.

For more information about services available to FSU students with disabilities, contact:

Student Disability Resource Center
97 Woodward Avenue, South
Florida State University
Tallahassee, FL 32306-4167
(850) 644-9566 (voice)
(850) 644-8504 (TDD)

sdrc@admin.fsu.edu

Mail code: 4167

<http://www.fsu.edu/~staffair/dean/StudentDisability/>