

University of Detroit Mercy
College of Engineering and Science
Department of Mathematics and Computer Science

CSC 345 Object- Oriented Software Construction
Term I 2004- 2005

Instructor: Saer Alahmar

Times: 6:40 – 9:10 P.M M E210

Office: Engineering Room #324

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Office Hour: Monday 3:30 - 4:30 P.M.
Tuesday 4:30 – 5:30 P.M.
& anytime by Appointment

Course Description:

This course is designed to introduce object-oriented programming to students who have had a background in traditional, procedural programming. Topics include: Object-oriented Programming Techniques, Encapsulation, Constructors, Destructors, Overloading, Single and Multiple Inheritance, Polymorphism, Composition, Templates, Iterators, Member Function Access, Data Hiding. The implementation language will be C++. The course begins with a description of that part of C++ that is simply part of C (called the kernel language) and then present objects and their implementation in C++.

Course Prerequisite:

A year of computer programming in any programming language.

Required Text:

Farrell, Object-Oriented Programming Using C++, Second Edition, Course Technology Thomson Learning, ISBN 0-619-03361-4

Course Objective:

Have a basic understanding of the object oriented programming and it techniques.

Projects for the Course:

Project 1:	Due 10/11/2004
Project 2:	Due 10/25/2004
Project 3:	Due 11/08/2004
Group Project:	Due 11/22/2004

Projects will be graded for scope, correctness, style, documentation, and timeliness. A project that “works” will not receive full credit unless it is well written, properly documented and optimized.

Late projects will not receive full credit. Unless otherwise specified, projects turned in late may lose as much as 20% and projects may not be accepted at all after that week.

Attendance/Participation:

Students are expected to attend class on a regular basis and participate in the discussions. They are responsible for all the material presented therein. Formal attendance records will not be maintained; however, attendance is highly correlated with performance on the projects and the exams.

The instructor will attempt to make reasonable accommodations for students who miss a class due to illness, death in the family or other legitimate reasons. However, students who are forced to miss several classes will have difficulty completing the course in a satisfactory manner.

Academic Integrity:

Students are expected to conform to a high standard of honesty and integrity in this course. Copying the work of someone else or other forms of cheating are strictly prohibited. Permitting or tolerating such behavior is also prohibited. The minimum penalty for any offense is a 0 on that assignment. The culprits may be subject to additional sanctions, up to and including expulsion from school for serious offenses, as prescribed by the University Catalog and the Engineering and Science Student Handbook.

Grading

Assignment	5 %
Project 1:	10%
Project 2:	10%
Project 3:	10%
Group Project:	10%
Exam 1:	15%
Exam 2:	15%
Final Exam:	25%

Grading System: (in percentages)

93- 100	A	78- 79	C+
90- 92	A-	73- 77	C
88- 89	B+	70- 72	C-
83- 87	B	60- 69	D
80- 82	B-	0 - 59	F

Make Up Policy:

Make Up exams will only be given to students who miss an exam for legitimate reason (as defined above under “Attendance”) and who notify the instructor in advance.

Important Course Dates:

Exam 1	10/18/2004
Exam 2	11/15/2004

Other Important Dates:

10/26/2004	mid-term grade due
10/1/2004	Last Day to drop a Course Without a “W”
11/1/2004	Advising for Winter 2004-2005 Begins
11/22/2004	Last Day to withdraw from class.