

**East West University**  
**Department of Computer Science & Engineering**  
**Course Outline**

Semester: Summer 2006  
 Course: CSE 107 – **Object Oriented Programming**  
 Section No: 1  
 Credit Hours: 4  
 Pre-requisite: CSE 105  
 Instructor: Sazia Mahfuz  
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**Objective:** The objective is to have detailed concepts of object oriented programming (OOP): objects, polymorphism, inheritance. OOP with C++: classes, parameterized constructors, friend functions, multiple inheritance, passing object to functions, arrays of object, pointers to objects, function and operator overloading, overloading constructor functions, references, inheritance, virtual functions and polymorphism, I/O class library, streams, creating inserters and extractors, formatting I/O, file I/O, dynamic allocation using new and delete, static class members, complex and BCD classes, the message based philosophy.

**Class time:**

Sunday, Tuesday : 11:50-1:20, GRAD – 402;  
 Thursday(Lab) : 11:50-1:20, FNDN- 702(C. Lab - 4)

**Office Hour:**

Sunday, Monday, Tuesday, Wednesday, Thursday : 10:10 – 11:40  
 Monday : 11:50 – 1:20                      Monday : 3:10 – 4:40

**Course Organization:**

21 <sup>st</sup> May, 06: Intro to OOP	23 <sup>rd</sup> May, 06: Review of functions & Pointers, Basic data types	25 <sup>th</sup> May, 06 : Lab Review of C
28 <sup>th</sup> May, 06 : Classes & Objects	30 <sup>th</sup> May, 06 : Function overloading	1 <sup>st</sup> June, 06 : Lab Classes & Objects
4 <sup>th</sup> June, 06 : <b>Quiz #1</b> , Constructors & Destructors Constructor overloading	6 <sup>th</sup> June, 06 : Constructor overloading	8 <sup>th</sup> June, 06 : Lab Function overloading, Constructor overloading
11 <sup>th</sup> June, 06 : Operator Overloading	13 <sup>th</sup> June, 06 : Operator Overloading	15 <sup>th</sup> June, 06 : Lab Operator overloading
18 <sup>th</sup> June, 06 : <b>1<sup>st</sup> Midterm</b>	20 <sup>th</sup> June, 06 : Type Conversions	22 <sup>nd</sup> June, 06 : Lab Type Conversions
25 <sup>th</sup> June, 06 : Inheritance	27 <sup>th</sup> June, 06 : Inheritance	29 <sup>th</sup> June, 06 : Lab Inheritance
2 <sup>nd</sup> July, 06 : <b>Quiz #2</b> , File operations	4 <sup>th</sup> July, 06 : File operations	6 <sup>th</sup> July, 06 : Lab File operations
9 <sup>th</sup> July, 06 : File operations	11 <sup>th</sup> July, 06 : Virtual Functions	13 <sup>th</sup> July, 06 : Lab File operations

16 <sup>th</sup> July, 06 : Virtual Functions	18 <sup>th</sup> July, 06 : Virtual Functions	20 <sup>th</sup> July, 06 : Lab Virtual Functions
23 <sup>rd</sup> July, 06 : <b>2<sup>nd</sup> Midterm</b>	25 <sup>th</sup> July, 06 : Templates	27 <sup>th</sup> July, 06 : : Lab Templates
30 <sup>th</sup> July, 06 : Templates	1 <sup>st</sup> August, 06 : Intro to STL	3 <sup>rd</sup> August, 06 : Lab STL
6 <sup>th</sup> August, 06 : STL	8 <sup>th</sup> August, 06 : <b>Quiz #3, Exception Handling</b>	10 <sup>th</sup> August, 06 : Lab Exception Handling
13 <sup>th</sup> August, 06 : Exception Handling	15 <sup>th</sup> August, 06 : Review Class	

**Text Book:**

Teach yourself C++, Herbert Schildt  
Object Oriented Programming with C++ (2<sup>nd</sup> Ed.), E. Balagurusamy.

**Quiz Dates:**

1<sup>st</sup> Quiz : 4<sup>th</sup> June, 2006.  
2<sup>nd</sup> Quiz : 2<sup>nd</sup> July, 2006.  
3<sup>rd</sup> Quiz : 8<sup>th</sup> August, 2006.

**Midterm Exam Dates:**

1<sup>st</sup> Midterm : 18<sup>th</sup> June, 2006.  
2<sup>nd</sup> Midterm : 23<sup>rd</sup> July, 2006.

**Score Distribution:**

Quiz : 10%  
Lab : 20%  
Midterm I : 12%  
Midterm II : 13%  
Project : 15%  
Class Participation : 5%  
Final : 25%

**Grading Policy** : As per University Rules

**Special Instructions:**

- No one is allowed to enter the class after 15 minutes of class commencement.
- Students are advised to attend all classes, labs and examinations.
- The course instructor can adjust the course content at any time.
- There will be no make-up examinations unless prior permission of the instructor is taken, for only unavoidable medical ground. In case of emergence, you must inform me or the department secretary within 24 hours of the exam time.
- The topics that will be covered for the quizzes and exams will be announced in the class. So class lectures should be strictly followed for the quiz and exam preparation.