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| **Course Number:**CSC243 |  | **CSC 243** |
| **Course Title:** Introduction to Object Oriented Programming  **Lecture Time and Place :**MWF 2:00 PM – 3:50 PM BB(1005)  **Lab Time and Place:** T 4:30 pm – 7:30(Sage Hall 110) |  |
| **Credits Hours:** 3 |  |
| **Semester:** FALL 2012 |  | |
| **Last Revised on:** September 24, 2012 |  | |
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Instructor

***Name:*** Dr. Azzam Mourad

***Email:*** azzam.mourad@lau.edu.lb

***Course Page*:** Blackboard

***Office:*** OG 408 *Extn 1200*

***Office Hours:*** MWF 12:00 pm – 2:00pm

(Or by appointment)

**Current Catalog Description**

This course introduces the fundamental concepts of programming from an object-oriented perspective. Topics include introduction to the object-oriented paradigm: abstraction, objects, classes, methods, parameter passing; encapsulation, inheritance, polymorphism; fundamental programming constructs: variables, types, expressions, and assignment; simple I/O; conditional and iterative control structures; structured decomposition; fundamental data structures: primitive types, arrays, strings and string processing; implementation strategies for algorithms; debugging strategies; and the concept and properties of algorithms.

Course Prerequisite/Co-requisite

**Textbook**

Java Software Solutions Foundations of Program Design Sixth Edition Lewis & Loftus, Pearson

**References**

* Deitel and Deitel. *JAVA How to Program*. Prentice-Hall.
* <http://he-cda.wiley.com/WileyCDA/HigherEdTitle/productCd-0471692646.html>

**Course Type**

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| **R**equired |  | **E**lective |  | **S**elective **E**lective |  |

**Course Learning Outcomes**

CLO1. Students will acquire the basic skills needed to write computer programs

CLO2. Students will be exposed to the fundamentals of object-oriented programming

CLO3. Students will apply the principles of problem solving and good programming habits

CLO4. Students will be able to implement, debug, and test programs

**Student Outcomes Addressed in this Course**

All the CLOs

Teaching Method

* Lectures, homework assignments, lab tutorials and drop quizzes.

Course Grading and Performance Criteria (Subject to 5% variation)

* Assignments + Attendance 20%
* Exams I and II + Quizzes 45 %
* Final exam 35%

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| **Grade** | **Quality Points** | **Guidelines over 100** |
| A | 4 | >= 90 |
| A- | 3.67 | 87-89 |
| B+ | 3.33 | 83-86 |
| B | 3.0 | 80-82 |
| B- | 2.67 | 77-79 |
| C+ | 2.33 | 73-76 |
| C | 2 | 70-72 |
| C- | 1.67 | 67-69 |
| D+ | 1.33 | 63-66 |
| D | 1 | 60-62 |
| F | 0 | <=59 |

**Topics Covered in the Course**

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| --- | --- | --- |
| **Week** | **Topic** | **Chapter** |
| 1 | Introduction to computers and programming languages | 1 |
| 2 | Introduction to Java applications | 2 |
| 3-4 | Object-oriented programming: classes and objects | 3 |
| 5 | Control statements: Selection statements | 5 |
| Quiz1 |  |  |
| 6-7 | Control statements: Repetition statements (Loops) | 5 |
| 8-9 | Implementing and using methods | 4 |
| 10-11-12 | Arrays | 7 |
| Quiz2 |  |  |
| 13 | **Searching and sorting algorithms** | handouts |
| 14 | Classes and objects: encapsulation and data abstraction | 6 |
| 14 | Introduction Inheritance and Polymorphism (if time permit) | 8-9 |

#### **Policy on Cheating and Plagiarism**

Students caught cheating on an exam receive a grade of zero on the exam in their first cheating attempt and receive a warning. Students caught cheating for the second time will receive a grade of “F” in the course and another warning. Plagiarism on assignments and project work is a serious offense. If plagiarism is detected, a student will be subject to penalty, similar to the cheating case, which ranges from receiving a zero on the assignment concerned to an “F” in the course in addition to a warning.

#### **Attendance Policy**

1. Students are held responsible for all the material presented in the classroom, even during their absence.
2. Students can miss no more than the equivalent of five weeks of instruction and still receive credit for that course.
3. Instructors have the right to impose specific attendance regulations in their courses, provided that the above-stated limit of absences is not exceeded, and the minimum number of absences allowed is no fewer than the equivalent of two weeks of classroom instruction, after the Drop and Add period.
4. Instructors will inform the Departments Chairperson and the Guidance Office, of any prolonged unexplained absence.
5. Students who exceed the allowed number of absences must withdraw from the course; otherwise, the course grade will be recorded as “F” (NP).

**Withdrawal policy**

“Students wishing to withdraw from one or more courses must follow the withdrawal procedure provided by the Registrar’s Office. Students withdrawing from courses after the late registration period and before the withdrawal deadline will receive Ws for all the courses in progress.”

***Deadline for withdrawal from courses***: December 7, 2012 (It is the student’s responsibility to drop the course)

**Course Evaluation**

Completion of the online course evaluations is required. Students will not be able to access their course grades until they have completed the course evaluations.

**Remarks**

* **Reading the textbook is a must**.
* Deadlines for the assignments **must be respected**.
* Make-ups and Incomplete: students are not automatically entitled to make-ups; F will be given until reasons (in writing and within one week of absence) are presented and approved.
* Some of the exam questions will be based on class discussion and assignments.
* No mobile phones and Laptops in the classroom and exams.