

<b>American University of Beirut</b>	<b>CAD A313</b>	
School of engineering & architecture	<b>Course Name : Computer Aided Design I</b>	<b>3 credits</b>
Department of architecture & design	Hours : T TH 2 pm – 5 pm	<b>ALH</b>
<b>Course syllabus</b>	Instructor: Mr. Moustapha Majzoub	<b>Spring 2004</b>

### 1. Course Description

Introduction to computer graphics in general, covering different applications in monochrome patterns, control and mix of colors, graphics and layout and scanning. A number of projects will be assigned to cover these applications.

### 2. Course Objectives

Students attending this course will be introduced to using CAD in creating their architectural designs . They will learn all the necessary tools for creating neat and accurate two dimensional drawings using simply the mouse and the keyboard. By the end of the semester, students should be able to develop all their design studio projects using AutoCAD, quickly and efficiently.

### 3. Studio Projects & Outline

The course is divided into lectures and lab hours. Students should make use of the lectures to take notes and assimilate the information and commands for handling the CAD software, and they will have enough time during the computer lab hours to practice these commands through weekly exercises , to be submitted at the end of each session. Assistance during the lab hours will guide the students to finalize their drawings and help them in solving any technical barriers.

The first half of the semester will emphasis on creating simple architectural drawings in AutoCAD, using basic monochromatic creation tools such as lines and circles, with basic editing commands like erase ,copy and move.

The second half of the semester will tackle more advanced two dimensional commands for more complex editing tasks like array and stretch , with special attention to drawing organization using colors and layers.

### 4. Required tools / skills

Basic computer orientation is preferable, and a good will to learn and practice

### 5. References

Several books are available in bookstores covering the CAD topic in general, and AutoCAD 2002 specifically.

Mastering AutoCAD 2002  
 Inside AutoCAD  
 AutoCAD 2002 for dummies

### 6. Bibliography

[None]

### 7. Schedule Juries & Due Dates

Speed test : Computer lab      February 22 2004  
 Quiz I : written exam          12 March 200  
 Final exam : Computer Lab      see final schedule

## **8. Grading**

- 10 % Lab weekly exercises and attendance
- 15 % Speed test
- 35 % Quiz I
- 40 % Final exam

## **9. Studio Rules & Regulations**

- 9.1. Students during lab sessions are required to submit their exercises before leaving the lab without any exceptions.
- 9.2 A student can miss no more than 5 sessions of instruction.
- 9.3 Plagiarism: Students caught cheating on an exam receive a grade of Zero on the exam in the first cheating attempt and a warning. Students caught cheating for the second time in the same course receive an F grade in the course and a second warning. A grade of zero on an exam resulting from cheating must be counted in the student's course grade. The zero cannot be dropped in computing the final grade in case the instructor has a policy of allowing students to drop their worst exam grade.  
Any student who receives 3 warnings will be suspended.