Hashemite University
College of Engineering
BE 202-(Computer Aided Engineering Drawing 1 Credit Hours/Fac.Compulsory)

Instructor

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Office hours:	Sun/Tue/Thurs : 10:00-11:00

Grading info

Mid	30%
Labwork	30%
Final	40%

Class Info

Days	
Time	
Location	

Course

Course Number:	110400202
Prerequisite:	.....
Textbook:	Lab manual
Course Description:	Introduction to Computer Aided Drawing (AutoCAD) Software, Drawing limits, grid setting and drawing aids, coordinate system, Drawing tools (point, line , ray, multi-line, poly-line, polygons, rectangle, arc, circle, ellipse), Modify tools (copy, erase, offset, move, rotate, lengthen, terminate, fillet, chamfer, array), Layers, Zoom, dimensions, text, hatch, isometric drawing.
Specific Outcomes of Instruction (Course Learning Outcomes):	1. To know the fundamental rules of an international language that enables ideas to be expressed and communicated in an easy and clear way through visual illustrations.(a,k) 2. Position students feet on the first step of engineering design which based on visual representation(i,k) 3. Encourage creative and inspirational solutions to many basic engineering problems(k) 4. Study the techniques for better presentation that lead to better communication design(k)
Important material	- Lecture notes - References - Internet resources

References:

James H. Earle, " Engineering Design Graphics, with AutoCAD 2000", Addison Wesley

Major Topics Covered and Schedule in Weeks:

Topic	# Weeks	# Contact hours*
AutoCAD basics and Getting Started with AutoCAD 2007	2	6
Drawing of Lines, Absolute and relative Cartesian Coordinate	3	9
Drawing Circles and Polygons, Circle, Construction Line, Polygon, Offset, Trim, Fillet, Drawing Arc, Poly Lines.	3	6
Drawing Multi Lines, Making Blocks, Learn the use of the following commands: Make Block,	1	6
Dimensioning, Learn the use of the following dimensioning commands	2	9
Layers, Creation and control of layers	4	9
Total	**15**	**45**

Course Policy

If you miss class, there won't be a makeup test, quiz, etc. and you WILL get a zero unless you have a valid excuse.

Student Outcomes (SO) Addressed by the Course:

#	*Outcome Description*	*Contribution*
	General Engineering Student Outcomes	
(a)	An ability to apply knowledge of mathematics, science, and engineering	***l***
(b)	An ability to design and conduct experiments, as well as to analyze and interpret data	
(c)	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	
(d)	An ability to function on multidisciplinary teams	
(e)	An ability to identify, formulate, and solve engineering problems	
(f)	An understanding of professional and ethical responsibility	
(g)	An ability to communicate effectively	
(h)	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context	
(i)	a recognition of the need for, and an ability to engage in life-long learning	***l***
(j)	A knowledge of contemporary issues	
(k)	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice	***H***

H=High, **M**= Medium, **L**=Low