



Philadelphia University
Faculty of Engineering
Department of Architecture
First semester, academic year (2018-2019)

<u>Course syllabus</u>	
Course title: Computer Aided Drafting1	Course code: 0660264
Course level: 2 nd year	Course prerequisite (s) and/or corequisite (s): 0660161
Lecture time: 9:10-11:00 Tue Thu. 8:15-10:15 MW	Credit hours: 2 Hours
	Contact hours: 4 Hours
Location: 409	

		<u>Academic Staff Specifics</u>		
Name	Rank	Office number	Office hours	E-mail address
Arch. Sara Taleeb Al-Darawsheh	Lecturer	311	ST 12:00- 1:00 MW 10:15-12:15 Thu 11-12	sdarawsheh@philadelphia.edu.jo

Course description:

This is a beginning course in the study of Computer Aided Drafting (CAD) with regard to Architecture. Students learn the commands necessary to present accurate 2D Architectural drawings using the latest version of the AutoCAD Software.

Content:

The Architectural Drafting AutoCAD topics covered in this Level I course include an introduction to AutoCAD features, starting and setting up drawings, point coordinate entry methods, creation of basic 2D drawing objects, layer management, line types and colors, selection sets, object snap modes, Auto Snap, polar tracking, object snap tracking, construction techniques, creating and managing text objects, editing geometry, display control, and drawing inquiry methods. Students will be introduced to the duties and responsibilities of the various trades and professions associated with architectural building construction and development.

Course objectives:

The main objective of this class is to provide the student an education in how to utilize computer software necessary to function as a CAD draftsman. The student will learn how to manage numerous elements on the same drawing using layers, commands, and tools. The student will also learn the major commands necessary to present accurate 2D Architectural drawings and to produce the most common architectural construction documents.

Course/ resources:

1. <https://images-na.ssl-images-amazon.com/images/I/C1BxaOC0-IS.pdf>
2. Shih, Randy, (2016), "AutoCAD 2017 Tutorial First Level 2D Fundamentals", SDC Publications.
3. CADFolks and Bhatt., (2017), "AutoCAD 2017- Beginner guide", Kindle Edition.

Teaching Activities:

Lecture, tutorial studios, assignments, presentations and discussions.

Teaching Methodology:

This course is taught in the classroom in a lecture/laboratory format. The lecture will generally introduce concepts and skills, which will then be developed and applied in the laboratory.

Learning outcomes:

By the end of the course, students will be able to know the commands necessary to produce a set of construction drawings for an architectural project, using AutoCAD Architectural computer software.

Students will also learn how to:

1. Create and understand various architectural drawing types used in the profession.
2. Learn how to use AutoCAD effectively in generating construction documents.
3. Create drawings at different scales.
4. Perform project-based experiences CAD.

Assessment instruments

- Exams (First, Second Exam).
- Project reviews and evaluation.
- Quizzes and Class assignments.

<u>Allocation of Marks</u>	
Assessment Instruments	Mark
First examination	20
Second examination	20
Projects submissions and developments, quizzes, Class assignments, Attendance.	20
Final Exam and Project	40
Total	100

Course/ Module academic calendar

	Course Program	Calendar	Exams
1	Introduction to AutoCAD features: (Components of the work screen)	Week 1	
2	1. Basic Drawing Skills: (Draw bar) 2. Editing Entities: (Modify bar)	Week 2	
3	Working with Layouts and Annotative Objects: o Layers o Dimension o properties o text	Week 3	
4	Printing and Plotting	Week 5	
5	Apply the above in architectural design projects: Drawing accurate architectural Plans through Quizzes and class assignments.	Week (5-7)	
6	First Exam	3,4-12- 2018	20%
7	Apply the above in architectural design projects: Drawing accurate architectural Elevations and Sections through Quizzes and class assignments.	Week (8-10)	
8	Details	Week 11	
9	Second Exam	7,8-1-2019	20%
10	Site Plan	Week (12-13)	
11	Final Submission For Final Project	Week 15	
12	Final Exam	Week 16	40%

Expected workload:

On average students need to spend 4 hours of study and preparation for each 2 hours lecture/tutorial.

Attendance policy:

Absence from lectures and/or tutorials shall not exceed 15%. Students who exceed the 15% limit without a medical or emergency excuse acceptable to and approved by the Dean of the relevant college/faculty shall not be allowed to take the final examination and shall receive a mark of zero for the course. If the excuse is approved by the Dean, the student shall be considered to have withdrawn from the course.