Philadelphia University

Faculty of Engineering and Technology
Department of Architecture
First Semester 2022/2023

Course Details:

Title:	Computer Drawing 1 (0660264)
Prerequisite:	Architectural Drawing (0660161)
Credit Hours:	4 credit hours (16 weeks per semester, approximately 128 contact hours)
Course Logistics	Term, class location and time, notation if online
Textbook:	Given by Instructor.
References:	• **https://images-na.ssl-images-amazon.com/images/I/C1BxaOC0-IS.pdf** • Shih, Randy, (2016), " **AutoCAD 2017 Tutorial First Level 2D Fundamentals**", SDC Publications. • CADFolks and Bhatt., (2017), "**AutoCAD 2017- Beginner guide**", Kindle Edition.
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.
Course 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, linetypes and colors, selection sets, object snap modes, AutoSnap, 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 architetural building construction and development.
Course Objective:	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 draftsperson. 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.

	Name	**Rank**	**Office Number and Location**	**E-mail Address**
Instructor:	Arch. Noor Al-Huda Abu Ghunmi	Lecturer	61-301	**Nooralhuda.abugunmmy@yahoo.com**
TA information				

Course Outlines:

	Course Program	Calendar
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	Week 7
7	Apply the above in architectural design projects: Drawing accurate architectural Elevations and Sections through Quizzes and class assignments.	Week (8-10)
8	Second Exam	Week 10
9	Details	Week 11
10	Site Plan	Week (12-13)
11	Final Exam	Week 14
12	Final Submission For Final Project	Week 15

Course Learning Outcomes with reference to NAAB Student Outcomes:

Upon successful completion of this course, student should be able 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 Guidance:

Evaluation of the student performance during the semester (total final mark) will be conducted according to the following activities:

Sub-Exams: The students will be subjected to two scheduled Drawing exams, first exam and second exam during the semester. Each exam will cover materials given in studios in the previous 3-4 weeks.

Projects: Two projects will be designed by students during the semester covering the residence buildings.

Grading policy:

First and second Exams	10%
Project 1	50%
Project 2	40%
Total:	100%

Attendance Regulation:

The semester has in total 32 credit hours. Total absence hours from classes and tutorials must not exceed 15% of the total credit hours. Exceeding this limit without a medical or emergency excuse approved by the deanship will prohibit the student from sitting the final exam and a zero mark will be recorded for the course. If the excuse is approved by the deanship the student will be considered withdrawn from the course.