



**German Jordanian University
School of Applied Medical Sciences
Department of Biomedical Engineering**

BM105: Engineering Drawing for BM

Course Catalog

1 Credit hour (1 hrs laboratory)

The aim is to let the students Understand that the Engineering graphics is a primary medium for communicating design concepts to manufacturers. It defines the geometry, dimensions and all other information required to produce engineered components. This course aims at developing students' skills needed for documenting designs and performing graphical analysis of 2D and 3D problems. Manual and computer-aided "AutoCAD" drawing methods are covered.

Moreover, understanding How you communicate using engineering drawing, learn how to create and read a manual engineering drawing and how to get around in AutoCAD, how each command works and how to use command while working on an actual project and progressing toward a goal

Lab Engineer

Lab Engineer	Eng. Huda AlShami
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Evaluation

Assessment Tool	Weight	Expected Due Date
Lab Assignments	30 %	Each one is due at the beginning of the next lab session assigned as a softcopy.
Midterm Exam	30%	Assigned at the beginning of each semester
Final Exam	40%	Assigned at the beginning of each semester
Total	100%	After completing final exam

Topics Covered		
Week	Experiment No.	Topic
1		Introduction to the Engineering Drawing (Slide show)
2		Free Hand Sketching 1 (Orthographic Projection)
3		Free Hand Sketching 2 (Orthographic Projection)
4		Interpret AutoCAD interface, change settings, open and save drawings.
5		Draw line types, arcs, circles, geometric construction.
6		Use AutoCAD panels/commands (Draw, modify, dimensions, text, solid, surface, object snaps, UCS, views...) to draw 2D
7		Layers, Annotation, Hatch...etc
8	Exam	Midterm Exam
9		Introduction to the 3D Drawing
10		Continue with 3D (union, Subtract, extrude...etc)
11		Practicing exercises with 3D Drawing
12	Exam	Final Exam

Policy	
Attendance	Attendance will be checked at the beginning of each lab session. University regulations will be strictly followed for students exceeding the maximum number of absences (20%).
Reports	Each student must hand his\her own separate report. Laboratory reports are due to <i>one week after</i> the experiment was carried out and it will be collected at the beginning of each laboratory. If any report is not submitted to the TA by the deadline, it will be judged as " LATE ".
Examinations	The midterm and the final exams are closed book tests. Students who are not able to attend an examination (medical or another emergency) must notify the instructor. Make up tests require a Valid University excuse.
Student Conduct	It is the responsibility of each student to adhere to the principles of academic integrity. Academic integrity means that a student is honest with him/herself, fellow students, instructors, and the University in matters concerning his or her educational endeavors. Cheating will not be tolerated in at all. University regulations will be pursued and enforced on any cheating process.