



**MUTAH UNIVERSITY**  
**Faculty of Engineering**  
**Department of Civil and Environment Engineering**



**Course Syllabus**

Course Code	Course Name	Credits	Contact Hours
0403209	Engineering Drawing by Computer	2	2T

INSTRUCTOR/COORDINATOR	
Name	Tariq Al Jaafreh
Email/Office	Tariq.aljaafreh @mutah.edu.jo
Office Hours	
Classroom/Time	

TEXTBOOK	
Title	" Engineering Design Graphics"
Author/Year/Edition	Earle,James H. Addison-Wesley publish in h Co, Eighth Ed., 1994.

Other Supplemental Materials	
Title	1- Earle, James H. " Engineering Design Graphics", Addison-Wesley publish in h Co, Eighth Ed., 144 References: Bertoline GR, Wiebe Hartman NW, and Ross WA, "Fundamentals of Graphics Communication", McGraw Hill, Sixth Edition. - Maguire, D. E. & Simmons, C. H., "Technical Drawing", 10th Ed., Hodder and Soughton, London, 1444
Author/Year/Edition	

SPECIFIC COURSE INFORMATION
<b>A. Brief Description of the Content of the Course (Catalog Description)</b>
Engineering drawing is the language of the engineers and technicians. Therefore, it is the intent of this course to equip students with the fundamentals of this unique language and to give them the skills necessary to prepare complete, concise, and accurate communications through engineering drawings using AutoCAD.
<b>B. Pre-requisites (P) or Co-requisites (C)</b>

Engineering Drawing (0403198) (P)						
<b>C. Course Type (Required or Elective)</b>						
Required						
<b>SPECIFIC GOALS</b>						
<b>A. Course Learning Objectives (CLOs)</b>						
<b>CLO1:</b> Apply engineering drawing skills using AutoCAD tool [6].						
<b>CLO2:</b> Ability to read basic engineering drawing [6].						
<b>CLO3:</b> Draw and modify lines and shapes using AutoCAD commands [6].						
<b>CLO4:</b> Draw out various architectural drawings AutoCAD [6].						
<b>B. Student Learning Outcomes (SOs) Addressed by the Course</b>						
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
					√	

<b>BRIEF LIST OF TOPICS TO BE COVERED</b>		
<b>List of Topics</b>	<b>No. of Weeks</b>	<b>Contact Hours</b>
1- Introduction and importance of engineering drawing.	2	4
2-Introduction To AutoCAD.	3	6
3- Engineering geometry.	3	6
4- Multiviews and Visualization.	3	6
5-. Orthographic projections. 1 Modeling Fundamental	3	6
<i>Total</i>	<i>14</i>	<i>28</i>

<b>EVALUATION</b>		
<b>Assessment Tool</b>	<b>Due Date</b>	<b>Weight (%)</b>
Mid Exam	According to the university calendar	20
Course Work (Homeworks, Quizzes, Projects, ...etc.)	One week after being assigned	40
Final Exam	According to the university calendar	40

### ABET's Students Learning Outcomes (Criterion #6)

Relationship to program outcomes	
ABET 1-7	<b>... Engineering Student Outcomes</b>
1.	an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2.	an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic
3.	ability to communicate effectively with a range of audiences
4.	an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5.	an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6.	√ an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7.	an ability to acquire and apply new knowledge as needed, using appropriate learning strategies