



MECH 1560 - Engineering Communication with CAD

Fall 2026 Syllabus, Section 01, CRN 41201,

Credit hours: 2

Instructor

Ali Alelaiw

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Public Instructor Information

Instructor Title: Lecturer

Instructor Professional Qualifications: *Master's, Science, Mechanical Engineering, Youngstown State University*

Bachelor's, Mechanical Engineering, Youngstown State University

Instructor Office Location: Moser Hall 2540

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Course Description

1560. Engr Communication with CAD. Commercially available software typically used in engineering practice will be used to develop traditional 2D engineering drawings and 3D solid models representing engineering components and systems. Teams of students will complete an engineering design project. One hour lecture and three hours laboratory per week. Prereq.: ENGR 1550. 2 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Engineering Graphics Text and Workbook	Craig and Craig	

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Proposed Topic	Due/To Prepare for Class
8/24	Introduction to Orthographic Projection	
8/31	Normal Surfaces Inclined Surfaces	
9/7	Oblique Surfaces	
9/14	Cylindrical Surfaces	
9/21	Isometric views Section views	
9/28	SolidWorks Basics	
10/5	SolidWorks Basics	
10/12	3D Parts	
10/19	3D Parts	
10/26	3D Parts	
11/2	3D Parts	
11/9	Assembly	
11/16	Assembly	
11/23	Drawing	
11/30	Drawing	

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.