

MECH 4808L - Mechanical Systems Design Laboratory

Fall 2026 Syllabus, Section 02, CRN 40789,

Credit hours: 1

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

4808L. Mechanical Systems Design Laboratory. Supplemental activities related to MECH 4808, such as discussion and seminars on industry practices and standards, computer software applications, experimental verification, etc. Three hours laboratory per week. Must be taken concurrently with MECH 4808. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Optional	Engineering Design, 6th Edition	Dieter	

Supplemental Texts: All books, notes, and software packages learned from previous engineering classes.

Required Additional Equipment: Engineering Notebook and access to a computer or laptop to perform engineering analysis.

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	Project Management	
8/31	Engineering Notebook Project Concept and Progress	
9/7	Project Concept and Progress	
9/14	Engineering Notebook Project Concept and Progress	
9/21	Project Concept and Progress	
9/28	Engineering Notebook Project Concept and Progress	
10/5	Team Presentation	
10/12	Engineering Notebook Project Concept and Progress	
10/19	Project Concept and Progress	
10/26	Engineering Notebook Project Concept and Progress	
11/2	Project Concept and Progress	

11/9	Engineering Notebook Project Concept and Progress
11/16	Project Concept and Progress
11/23	Engineering Notebook Project Concept and Progress
11/30	Project Concept and Progress
12/7	Team Presentation

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.