

MECH 4825L - Heat Transfer and Thermodynamics Laboratory

Fall 2026 Syllabus, Section 01, CRN 41084,

Credit hours: 1

Instructor

Eric Haake

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Public Instructor Information

Instructor Title: Mr. Eric Haake

Instructor Professional Qualifications: M.S, Mechanical Engineering, Youngstown State University, 2020

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Course Description

4825L. Heat Transfer and Thermodynamics Laboratory. Experiments involving basic measurement techniques, power and refrigeration cycles, heat transfer, heat exchangers, and energy systems. Three hours laboratory per week. Prereq.: MECH 3704 and MECH 3720 and MECH 3725. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Optional	Thermodynamics	Cengel	9781265903534

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	Lab Intro Error Analysis	
8/31	Exp 1	
9/7	Break	Report 1
9/14	Exp 2a	
9/21	Exp 2b	
9/28	Exp 3	Report 2
10/5	Project Proposal	Report 3
10/12	Exp 4	
10/19	Exp 5	Report 4
10/26	Exp 6	Report 5
11/2	CFD	Report 6
11/9	Design Project	Individual Report
11/16	Design Project	
11/23	Break	
11/30		Design Report Design 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.