

CEEN 3749L - Structural Analysis 1 Lab

Fall 2026 Syllabus, Section 02, CRN 43124,

Credit hours: 1

Instructor

Richard Deschenes

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Public Instructor Information

Instructor Title: Associate Professor

Instructor Professional Qualifications:

P.E., Ohio Board of Engineers and Surveyors

Ph.D., Civil Engineering, University of Arkansas

M.S., Civil Engineering, University of Arkansas

B.S., Civil Engineering, University of Arkansas

Instructor Office Location: Moser 2445

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Course Description

3749L. Structural Analysis 1 Lab. Introduction to stiffness-based analysis of determinate and indeterminate structures. Computer analysis of various structural systems, including plane and space trusses, continuous beams, plane and space frames, plates. P-delta stability analysis of frames. Three hours computational lab per week. Prereq.: CEEN 2602; concurrent with CEEN 3749. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Structural Analysis, 11th edition	Hibbeler, R.C.	9780138026394

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 [L1]	
8/31	Equilibrium [L2]	Report 1
9/7	Trusses Analysis [L3]	Report 2
9/14	Beam Analysis [L4]	Report 3
9/21	Frame Analysis [L5]	Report 4
9/28	Exam 1	Report 5
10/5	Influence Lines [L6]	
10/12	Vehicle Loading [L7]	Report 6
10/19	Beam Deflection Analysis [L8]	Report 7
10/26	Professional Practice [L9]	Report 8
11/2	Exam 2	Report 9
11/9	Frame Deflection Analysis [L10]	
11/16	Final Project [L11]	Report 10
11/23	Thanksgiving	

11/30	Final Project Report [L12]	Report 11
12/7	Finals Week	Report 12

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.