

CEEN 2602 - Strength of Materials

Fall 2026 Syllabus, Section 01, CRN 41244,

Credit hours: 3

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

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Course Description

2602. Strength of Materials. Relationships between loads, shear and bending moments in beams; combined stresses in beams; indeterminate beam analysis; virtual load; connections; columns. Prereq.: CEEN 2601. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Mechanics of Materials	Beer, F., Johnston, E.R., DeWolf, J.T. & Mazurek, D.F.	978-1260113273

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	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	1.1-5	Stress and Strain	Problem Set 1
8/31	2.1	Axial Force	Problem Set 2
9/7	2.2-8	Axial Force Systems	Problem Set 3
9/14	2.10-11	Stress Concentrations	Problem Set 4
9/21	3.1-2	Torsion	Problem Set 5
9/28	3.3-5	Power Transmission	Problem Set 6
10/5	4.1-6	Bending	Problem Set 7
10/12	5.1	Shear and Moment	Problem Set 8
10/19	5.2-3	Beam Design	Problem Set 9
10/26	6.1-3	Shear Stress	Problem Set 10
11/2	7.1-3	Stress Transformation	Problem Set 11
11/9	7.4	General State of Stress	Problem Set 12
11/16	7.5-6	Failure Theories	Problem Set 13
11/23	8.1-3	Reserved	Problem Set 14

11/30	9.1	Stress in Beams	Problem Set 15
12/7		Final Exam	

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.