

CEEN 2601 - Statics

Fall 2026 Syllabus, Section 02, CRN 40671,

Credit hours: 3

Instructor

Suresh Sharma

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Public Instructor Information

Instructor Title: Dr. Suresh Sharma

Instructor Professional Qualifications: PhD in Civil Engineering, Auburn University, Alabama

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Course Description

2601. Statics. Principles of engineering mechanics as applied to statics with vector applications to forces and moments; centroid and center of gravity; equilibrium; friction; moments of inertia: relationship between loads, stress and strain in tension, compression, torsion and bending. Prereq.: MATH 1572 or MATH 1572H; PHYS 2610 or concurrent. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Engineering Mechanics: Statics	R.C. Hibbeler	15th Edition, Prentice Hall

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	Section 1.1-1.3 and Section 2.1-2.9	Introduction, Units, General Principles, Force Vectors	Prepare for respective sections
8/31	Section 3.1-3.2	Equilibrium of a particle	HW due and prepare for respective sections
9/7	Section 3.3-3.4	Equilibrium of a particle	HW due and prepare for respective sections
9/14	Section 4.1-4.5	Force System Resultants	HW due and prepare for respective section
9/21	Section 4.6-4.10	Force System Resultants Contd...	Exam I, HW due and prepare for respective sections
9/28	Section 5.1-5.6	Equilibrium of rigid body	HW due and prepare for respective sections
10/5	Section 5.7	Equilibrium of rigid body	HW due and prepare for respective sections
10/12	Section 6.1-6.3	Structural analysis	HW due and prepare for respective sections
10/19	Section 6.4-6.6	Structural analysis Contd.....	Exam II, HW due and prepare for respective sections
10/26	Section 7.1-7.2	Internal forces	HW due and prepare for respective sections
11/2	Section 7.3-7.4	Internal forces contd....	HW due and prepare for respective sections
11/9	Section 9.1-9.3	Centre of gravity and centroid	HW due and prepare for respective sections
11/16	Section 9.3-9.5	Center of Gravity Contd...	Mid Term Exam
11/23	Section 10.5-10.8	Moment of Inertia	HW due and prepare for respective sections
11/30	Section 8.1-8.8	Friction	HW due and prepare for respective sections
12/7		No Class, Week of 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.