

CEEN 2601 - Statics

Fall 2026 Syllabus, Section 03, CRN 43539,

Credit hours: 3

Instructor

Yuqiu Ye

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Public Instructor Information

Instructor Title: Assistant Professor

Instructor Professional Qualifications: Ph.D., Civil Engineering, University of Kansas, 2024

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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	Hibbeler, R.C.	9780137514663
Optional	Vector Mechanics for Engineers: Statics	Ferdinand P. Beer, E. Russell Johnston and David Mazurek	9781266706523

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	Sections 1.1 - 2.3	General Principles	Read respective sections.
8/31	Sections 2.4 - 2.6	Vectors	Problem set due; Quiz; Read respective sections
9/7	Sections 2.7 - 3.3	Force Vectors	Problem set due; Quiz; Read respective sections
9/14	Sections 3.4 - 4.1	Equilibrium of a Particle	Problem set due; Quiz; Read respective sections
9/21	Sections 4.2 - 4.5	Moments	Problem set due; Exam 1; Read respective sections
9/28	Sections 4.6 - 4.7	Force System Resultants	Read respective sections.
10/5	Sections 4.8 - 4.9	Distributed Loads	Problem set due; Quiz; Read respective sections
10/12	Sections 5.1 - 5.2	Equilibrium of a Body	Problem set due; Quiz; Read respective sections
10/19	Sections 5.3 - 5.4	Equilibrium of a Body	Problem set due; Quiz; Read respective sections



10/26	Sections 5.5 - 5.7	Equilibrium of a Body	Problem set due; Exam2; Read respective sections
11/2	Sections 6.1 - 6.4	Structural Analysis	Problem set due; Quiz; Read respective sections
11/9	Sections 9.1 - 9.2	Centroid	Problem set due; Quiz; Read respective sections
11/16	Sections 10.1 - 10.4	Moments of Inertia	Problem set due; Exam 3; Read respective sections
11/23	Thanksgiving Break	No class	N/A
11/30	Section 7.1	Internal Forces	Read respective sections
12/7	Finals Week	No class	Problem set due; Final Exam: 12/9/26 (W) 8:00-10:00 am

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.