

CEEN 2610 - Surveying

Fall 2026 Syllabus, Section 03, CRN 44285,

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

2610. Surveying. The theory of surveying and the use of instruments. Problems in leveling, traversing, and topography. Introduction to circular and vertical curves. Prereq.: MATH 1513 or equivalent. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Surveying Fundamentals and Practices	Nathan, Lanzafama, and Kissam	9780137408504
Optional	Elementary Surveying: An Introduction to Geomatics	Charles D. Ghilani	9780137453740

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	Chapter 1	Introduction to Surveying	Read respective sections.
8/31	Chapter 2	Survey Measurements and Computations	Problem set due; Quiz; Read respective sections
9/7	Chapter 3	Review of Basic Mathematics for Surveying	Problem set due; Quiz; Read respective sections
9/14	Chapter 4	Measuring Horizontal Distances	Problem set due; Quiz; Read respective sections
9/21	Chapter 5	Measuring Vertical Distance	Problem set due; Exam 1; Read respective sections
9/28	Chapter 6	Measuring Angles and Directions	Read respective sections.
10/5	Chapter 7	Horizontal Control Surveys	Problem set due; Quiz; Read respective sections
10/12	Chapter 8	Property Surveys	Problem set due; Quiz; Read respective sections
10/19	Chapter 9	Topographic Surveys	Problem set due; Quiz; Read respective sections
10/26	Chapter 9	Topographic Surveys	Problem set due; Exam2; Read respective sections



11/2	Chapter 10	Highway Curves and Earthwork	Problem set due; Quiz; Read respective sections
11/9	Chapter 10	Highway Curves and Earthwork	Problem set due; Quiz; Read respective sections
11/16	Chapter 11	Construction Surveys	Problem set due; Quiz; Read respective sections
11/23	Thanksgiving Break	No class	N/A
11/30	Chapter 11	Construction Surveys	Read respective sections
12/7	Final Week	No class	Problem set due; Final Exam: TBD

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.