



CCET 3714 - Soil Mechanics

Fall 2026 Syllabus, Section 01, CRN 43136,

Credit hours: 2

Instructor

Joe Sanson

Associate Professor

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Public Instructor Information

Instructor Title: Associate Professor

Instructor Professional Qualifications: Masters of Science in Civil Engineering Youngstown State University -2013

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Course Description

3714. Soil Mechanics. A study of soil properties, classifications, strength and behavior. Theory of consolidation, shear strength and stability analysis. Two hours lecture per week. Prereq.: 'C' or better in the following courses CCET 2614L, CCET 3706, CCET 3709. 2 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Soil Properties - Testing, Measurement, and Evaluation	Cheng Liu & Jack B. Evett	9780135113905

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	Soil Formation, Gradation, Consistency and Classification	
8/31	Weight and Volume Relationships	
9/7	Soil Exploration and Sampling	
9/14	Soil Compaction and Stabilization	
9/21	Permeability-Laboratory and Field Tests	
9/28	Water Seepage and Flow Nets; Exam #1	
10/5	Consolidation-Pressure/Deformation/Time	
10/12	Field Consolidation Lines, Comp. Index, Perm. Relationships	
10/19	Shear Strength-Mohrs Circle, Direct Shear, Triaxial Unconfined Tests	
10/26	Shear Strength-UU/CU/CD Tests; Vertical Point Loads, Approx	
11/2	Vertical Stress-Uniformly Distributed Loads, Line Loads	
11/9	Lateral Earth Pressure; Exam #2	
11/16	Lateral Earth Pressure	
11/23	Slope Stability	
11/30	Review for Final Exam	
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.