



# STARK STATE COLLEGE

## GENERAL SYLLABUS

### Course Information

**Course Name:** Soil Mechanics  
**Course Number:** CET125

### Required Materials

**Textbook(s):** Soils in Construction by Schroeder  
**Required Readings:** None  
**Additional Materials:** Calculator, Engineering Paper

### Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Chapter/Topic/Lab
1	Chapter 1-3-Introduction/Weight-Volume Relations
2	Chapter 3- Lab 1: Unit Weight, Void Ratio, Porosity, Grain Size Analysis of Soils
3	Chapter 3-4- Lab 2: Sieve Analysis, Lab 1, Plasticity of Soils
4	Chapter 3-4- Lab 3: Atterberg Limits, Lab 2, Soil Classification
5	Chapter 4- Lab 4: Classification of Soils, Lab 3
6	Review for Exam #1, Lab 4
7	Chapter 8-Laboratory and Field Soil Compaction (online)
8	Chapters 5&9-Lab 5: Standard Proctor Test, Seepage, Permeability and Reduction Systems
9	Lab6: Constant Head Permeability, Flow Nets and Water Retention
10	Chapter 10-Lab 7: Field Density by Sand Equivalent, Effective & in situ stress, Exam #2
11	Chapter 7-Soil Exploration and Applied Stress (online)
12	Chapters 5&11-Lab 8: Soil Boring Log Books, Shear Strength
13	Lab 9: Unconfined Soil Strength, Bearing Capacity
14	ODOT Embankments, subgrades, and trenches
15	Review and Exam #3 released
16	Exam #3 deadline