

OBR	
Received(time)	4:18 PM
Date	9/13/2006

**Ohio Articulation Number (OAN)  
Course Submission Form  
2005-2006**



College/University Stark State College of Technology

Course(s) Submitted(Title & Course #) Soil Mechanics for  
Ohio Articulation Number SSCT-2006/07-OET017-Soil  
Mechanics CET125

Date 8-22-06 Course one of a one Course OAN mapping.

Name and title of individual submitting on behalf of the college/university

Name John Zeit Title Associate Professor

Address 6200 Frank Ave. N.W.  
Canton, Ohio 44720-7299

E-mail [jzeit@starkstate.edu](mailto:jzeit@starkstate.edu)

Phone 330-966-5461 ext.4384

Fax 330-966-6585

Credit Hours 3 qtr \_\_\_\_\_ sem X

Lecture Hours 2

Laboratory Hours 2 (if applicable)

Pre-Requisites(s) Course work (if applicable)

College Algebra & Trig IMTH121

Statics & Strength of Materials MET124

Placement Score (if applicable)

(Name of test)

(Domain) (Score)

Catalog/Course Description (Includes Course Title and Course #)

<p><b>CET125 SOIL MECHANICS</b></p>
---

### *3 Credit Hours*

This course includes laboratory tests, soil classification systems, and theoretical concepts relative to soil strengths, stresses in soil masses, settlement under structures, bearing capacity for shallow foundations, retaining walls and slope stability.

#### Texts/Outside Readings/Ancillary Materials

Principles of Geotechnical Engineering, by DAS, 2002, 5th Edition  
Material Testing: Asphalt, Concrete, Soil, by Dorey Diab, 1997

#### Course Objectives and/or Plan of Work

This course includes laboratory tests, soil classification systems, and theoretical concepts relative to soil strengths, stresses in soil masses, settlement under structures, bearing capacity for shallow foundations, retaining walls and slope stability.

#### Description of Assessment and/or Evaluation of Student Learning

Quizzes, exams, lab assignments, lab reports, team participation

#### Master Syllabi and Working Syllabi (if both are used)

## **STARK STATE COLLEGE OF TECHNOLOGY CIVIL ENGINEERING TECHNOLOGY COURSE SYLLABUS**

### **COURSE DESCRIPTION/OBJECTIVE:**

This course includes laboratory tests, soil classification systems, and theoretical concepts relative to soil strengths, stresses in soil masses, settlement under structures, bearing capacity for shallow foundations, retaining walls and slope stability.

### **COMMUNICATION AND INTERPERSONAL SKILLS:**

Students are required to work in teams during the experiments listed in the course outline, and the grade is based on both team and individual effort. Written lab reports are required as a major part of the grade.

### **COMPUTATION AND CRITICAL THINKING SKILLS:**

These skills will be demonstrated on the homework, tests, and labs during calculation and problem solving.

### **COMPUTER APPLICATION SKILLS:**

Students are required to use STAAD (Structural Analysis and Design) software to analyze footing and retaining walls. Lab reports are required to be word-processed on the computer including tables and spread sheets.

### **TEXTBOOKS:**

Principles of Geotechnical Engineering, by DAS, 2002, 5th Edition  
Material Testing: Asphalt, Concrete, Soil, by Dorey Diab, 1997

**COURSE OUTLINE:**

1. Soil Composition (Ch. 1, 2)
2. Soil Classification (Ch. 3)
3. Labs: Moisture content, specific gravity, sieve analysis, liquid and plastic limits, unit weight, permeability
4. Soil Compaction (Ch. 4), Lab: Proctor test
5. Flow of Water in Soil (Ch. 5)
6. Stresses in Soil (Ch. 6, 7),
7. Settlement in Soil (Ch. 8)
8. Soil Shear Strength (Ch. 9)
9. Lateral Earth Pressure (Ch. 10)
10. Soil Bearing Capacity (Ch. 12)
11. Slope Stability (Ch. 13)

**Note: Syllabus is subject to change based on the needs of the class.**

Additional Documentation

--

OBR Use

Action

Approved	
Additional Information Requested	
Rejected	
Date	

## **Ohio Articulation Number Form Directions**

This form is used to submit your course information to the Ohio Board of Regents, for all courses that make up OAN requirements. This document is a form, so the only fields that need to be filled in can be. When you open this, make sure the top of the screen, where the name of the document is displayed, says "Document1" or something similar to that. When you open this form from a location other than inside of word, it creates a blank template to fill in. Please fill it in with the appropriate course information from your institution. All of the fields in this document are expandable, and will grow to fit as much data in them as you need. Note that these fields are implemented as MS Word tables. Keep that in mind as you are copying and pasting between your syllabi and this form.

Once you are done entering your course information, you need to save this file. Since Word opened a blank version of this file, you will need to rename it to save it. Under file, choose "Save as" and then enter the name of the file. The naming scheme for this form is Institution-Year-OAN number-Course Title.

Example, if you were ABC Community College, and you were submitting your Calculus110 course, the name of the file would be ABC-2005/06-OMT005-Calculus110. If two (or more) courses are required to fulfill that same OAN, you would submit ABC-2005/06-OMT005-Calculus110Calculus111.

When you are done with your submissions, please send them electronically to the Ohio Board of Regents at [atpanels@regents.state.oh.us](mailto:atpanels@regents.state.oh.us) so we can keep your information on file.

If you encounter any problems or have any questions, please contact any of the individuals listed bellow:

Jim Ginzer (614) 752-9486 [jginzer@regents.state.oh.us](mailto:jginzer@regents.state.oh.us)

Sam Stoddard (614) 752-9532 [sstoddard@regents.state.oh.us](mailto:sstoddard@regents.state.oh.us)

Nick Wilson (614) 466-4158 [nwilson@regents.state.oh.us](mailto:nwilson@regents.state.oh.us)