



## SCHOOL OF CIVIL ENGINEERING

### CIE 334 - Mechanics of Soils Spring 2009

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#### Course Syllabus

##### Instructor:

Assoc. Prof. Dr. Derin Ural  
Office : Yapı Deprem Room 112  
Phone: 285-3742; e-mail: derin@itu.edu.tr  
Course Hours: Tuesdays 9:30 – 12:30  
Assistant: Z. Nil Taylan

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**Attendance:** Attendance will be taken in the lectures. At least 70% attendance and participation in class is required.

**Grading Policy:** The final course grade will be determined as follows:  
Short Exams + Homework: 50%  
Final Exam: 50%

##### Required Textbook:

Principles of Geotechnical Engineering, by Braja M. Das,  
6<sup>th</sup> Edition, Thomson Publishing, 2007.

##### Recommended Textbook:

An Introduction to Geotechnical Engineering. By Robert D.Holtz  
and William D.Kovacs, Prentice –Hall, 1981.

**Homework:** Weekly Assignments will be given



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#### **T O P I C**

#### **READING ASSIGNMENT**

1. Introduction	
2. Soil Formation	Textbook pg. 1-26
3. Soil Composition	Textbook pg. 31-63
4. Classification of Soil	Textbook pg. 67-85
5. Soil Compaction	Textbook pg. 88-126
6. Permeability and Seepage	Textbook pg. 129-175
7. Effective Stress	Textbook pg. 182-207
8. Stress Distribution	Textbook pg. 212-247
9. Consolidation	Textbook pg. 253-309
10. Shear Strength of Soils	Textbook pg. 376-430
11. Lateral Earth Pressure	Textbook pg. 380-457