

Schedule

**SOIL MECHANICS
CEIE 305**

Robinson Hall A208

**Fall 2008
M 7.20- 10.00PM**

TEXT: Braja M. Das "Principles of Geotechnical Engineering," 6th Edition, 2006, Thompson Publishing.

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DATE	SUBJECT	CHAPTER
8/25	Introduction, Soil exploration, Soil structure	2.1-2.4, 17
9/1	Labor Day (Holiday)	
9/8	Soil Classification	2.5-2.7, 3.7-3.14, 4
9/15	Soil Properties	3.1-3.6
9/22	Soil Improvement, Effective Stress, Capillary Rise	5, 8.1, 8.7-8.9
9/29	Soil Permeability	6
10/5	Seepage Prediction and Control	7, 8.2-8.6
10/14 Tuesday	MIDTERM	
10/20	Stresses Induced by Loads	9.3-9.14
10/27	Immediate Settlement in Soils, Consolidation Test	10.1-10.9
11/3	Consolidation Settlement in Soils	10.10-10.19
11/10	Mohr Circle, Shear strength	9.1-9.2, 11
11/17	Lateral Earth Pressure, Retaining Structures	12
11/24	Bearing Capacity of Soils	15
12/1	Stability of Soil Slopes	14
12/8	Reading day	
12/16	FINAL EXAM WEEK	

Weekly quizzes based on homework = 40%

Midterm Exam = 25%

Final Exam = 35%

REFERENCES

B.M. Das "Soil Mechanics Laboratory Manual", Engineering Press, 1982

R.F Craig "Soil Mechanics", Chapman-Hall

R.D. Holtz & W.D. Kovacs "An Introduction to Geotechnical Engineering" Prentice-Hall

M.G. Spangler & R.C Handy "Soil Engineering" Harper & Row

B.M. Das "Principles of Geotechnical Engineering" 5th Edition, 2002, Brooks/Cole,