



CIVE 3330 Geotechnical Laboratory Spring 2017

Lecture:	Thursday	All sections	8:00AM – 8:50AM	Ball Hall 210	SGP
Lab:	Tuesday	Section 801	9:00AM – 11:45AM	Geotechnical Lab	RKG
	Tuesday	Section 802	12:00PM – 02:45PM	Geotechnical Lab	RKG
	Thursday	Section 803	9:00AM – 11:45AM	Geotechnical Lab	SGP
	Thursday	Section 804	12:00PM – 02:45PM	Geotechnical Lab	RKG
	Thursday	Section 805	3:00PM – 5:45PM	Geotechnical Lab	SGP

- Text:**
- "Soil Mechanics Laboratory Manual", B.M. Das, Engineering Press, 8th edition, 2013 (one copy per group).
 - Class notes prepared by Prof. Paikowsky.
 - Spreadsheets prepared by Dr. Hajduk

The lab consists of seven meetings in which five sets of experiments will be carried out.

Instructors:

Prof. Samuel G. Paikowsky
 Office PA105B, Hours: Thu (week w class) 1PM – 3PM
 Tue 1PM – 4PM
 Or by appointment

Dr. Raj Kumar Gondle
 Office PA110B, Hours: Thu (week w class) 10AM – 12PM
 Fri 11AM – 1PM
 Or by appointment

Website: <http://faculty.uml.edu/spaikowsky/>
 Lab website provides all instructions and data posted by the instructor and the T.A.

TA: Susom Dutta
 Office Perry 105, ext. 42238 email: susom_dutta@student.uml.edu
 Office Hours: Monday and Wednesday 1PM – 3PM
 Tuesday and Thursday (weeks w/o class) 1PM – 3PM
 (Please see the TA before meeting the Instructors)

Graders: Justin Consentino; email: Justin_Consentino@student.uml.edu
 George Xanthopoulos; email: George_Xanthopoulos@student.uml.edu

Lab Director: Gary Howe
 Office SO129, ext. 42567
 Please contact the laboratory director if you need to get inside the lab to take readings/measurements.

Grading: Complete attendance at all six labs is required for completion. Grading will be based on attendance, lab testing participation (including clean up at the end of each lab) and lab reports including test results, analysis, presentation and write-up. Pop quizzes will be administrated and accounted for.

Software: Included in the text are tables and graphing paper for test results, analysis and presentation. Graphing using Excel, Grapher, etc., are recommended for the report submittal.

Laboratory Structure: The first meeting (1/26/2017 for all sections) is dedicated to the general structure, procedures and report presentation. The following five laboratory meetings will all precede by a 45-minute lecture in BA 210. The students are required to read the designated chapters before each lab and can expect to be tested on the material before, during or after the lecture. A lab session follows the lecture with students working in groups conducting the tests together. Each group (typically of up to four students) will submit one joint report with the lead person clearly being identified. The reports will be graded equally for each group member. The reports will follow the guidelines provided in the class (see Appendix A of the class notes), the data collected in the lab (see Appendices C, D and E of the text) and the data and results produced by your spreadsheet. The report is expected to be comprehensive, (including background on the subject and conclusions based on the obtained results) well written, typed, organized and professionally prepared, to be submitted typically one week after the tests have been carried out regardless if a lab meeting is scheduled that week or not. Note, in case of absence from a single lab, you will be required to carry out the lab by yourself on the makeup date and submit a report by yourself. **Absence from two labs will require retaking the course.**

<u>MEETING</u>	<u>DATE 2017</u>		<u>TOPIC</u>	<u>TEXT</u>	<u>COMMENT</u>
	<u>TUE</u>	<u>THR</u>			
1		1/26	Introduction	Chapter 1 p. 1 –5	Writing instructions Guidelines. Lecture only.
2	2/7	2/2	Soil Classification Granular Soils, and Cohesive Soils (Lab 1)	Chapter 9 p. 71-88 Chapter 4 p. 21-29 Chapter 2 p. 7-11 Chapter 6 p. 47-55 Chapter 7 p. 57-61	Class meets for lecture and lab.
3	2/14	2/09	Compaction Standard Proctor (Lab 2)	Chapter 12 p. 105-116	Class meets for lecture and lab.
*Note 2/20 is Presidents Day and 2/21 is a Monday Schedule					
4	3/07	3/02	Permeability (Lab 3)	Chapter 10 p. 89-98 Chapter 11 p. 99-104	Class meets for lecture and lab.
	3/13	3/17	Spring Break		
5	3/28	3/23	Seepage, flow model and flow net (Lab 4)	<i>Soil Mechanics</i> by R.F. Craig Chapter 2 Seepage	Class meets for lecture and lab.
6	4/11	4/06	Shear Strength Cohesive and granular soils (Lab 5)	Chapter 16 p. 147- 157 Chapter 17 p. 159- 167	Class meets for lecture and lab.
7	4/18	4/13	Make up Lab		

*Note 4/21 is a Monday Schedule and 4/28 is Last Day of Classes