TENTATIVE COURSE SYLLABUS

CE 3520 – Civil Engineering Materials – Spring 2017

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Office hours: by appt.

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Office hours: by appt.

Lecture:

Mo 1:25 – 2:15 AM Room: UTEB 175

Lab session (CAST 106):

Tuesday: section 001 (8am - 11am), section 002 (11am - 2pm) Thursday: section 003 (8am - 11am), section 004 (11am - 2pm)

Lab Instructor: Jonathon Drasdis, jonathon.drasdis@uconn.edu, FLC 322, 6-3211

Graduate Teaching Assistant: Section 1 & 2: Ghezae Fisseha, ghezae.fisseha@uconn.edu

Section 3 & 4: Jingyue Zhang, jingyue.zhang@uconn.edu

Lab Manual & Texts:

Lab: CE3520 Lab Manual (required)

Lecture: Materials for Civil and Construction Engineers, Mamlouk and Zaniewski; 3rd Edition. (required)

Textbook used in your Soil Mechanics course & classnotes (optional)

Description:

This course presents the basic principles and engineering properties of metals, soil, concrete, asphalt, and wood; laboratory measurement of properties; and interpretation of results.

Grading: Tentative Distribution of points

Laboratory Exercises 70% (Lab results write-up and pre-lab quiz)
Content Quizzes 30% (in class, module specific, in total 6)

Educational Outcomes:

Upon completion of this course, students should be proficient in the ability to:

- 1. Learn the properties and characterization of main civil engineering materials such as metal, soil, aggregate, concrete, asphalt, wood, etc.;
- 2. Conduct laboratory tests of civil engineering materials;
- 3. Develop technical writing skills and experience working as a group.

Laboratory:

Description: The laboratory course is organized into topical modules. The laboratory exercises follow theoretical introductions from the lecture portion of CE3520. You are expected to come to Lab having carefully read through the laboratory module in the CE3520 Lab Manual. Lab exercise results and reports will be submitted the following Lab. The Instructor & TA will collect and grade lab exercises and reports. In certain circumstances (e.g., documented illness), a student may attend a different lab section provided that prior authorization was given. Student grades will be based on lab exercises results & summary submitted individually, as well as attendance and completion of the prelab quiz. The guidelines and expectations for the lab exercises/reports will be discussed in class. Lab will count as 70% of your final course grade.

Class Policy:

Attendance: Regular and punctual attendance in lecture is strongly encouraged. While certain charts, figures, tables, and other materials presented in lecture may be posted on HuskyCT, it is critical that students attend the lecture to understand the context in which they are applied to solving problems. In other words, your textbook and supplemental materials are excellent resources, but are not adequate substitutes for the lecture. In the event of any absence, it is the responsibility of the student to obtain the notes for that class as well as any handout materials or information that may have been announced.

Academic Integrity: Students are expected to behave in a professional manner. Cheating, plagiarism, self-plagiarism, and copying are considered to be severe offenses. Any collaborative behavior (talking, discussing, copying) during the examinations will result in failure of the exam, and may lead to failure of the course and University disciplinary action. Unless otherwise specified, all work in this course is considered an individual exercise. Students are permitted to work on the problem sets together in collaborative fashion; however, the assignments must be turned in on an individual basis. This policy does not permit splitting of assigned problems, as any act of copying without actually working on a given problem is considered of form of plagiarism. The relevant university policy on student conduct and academic integrity are detailed in Section IV and Appendix A of The Student Code, which includes the following relevant passages.¹

Academic misconduct is dishonest or unethical academic behavior that includes, but is not limited, to misrepresenting mastery in an academic area (e.g., cheating), intentionally or knowingly failing to properly credit information, research or ideas to their rightful originators or representing such information, research or ideas as your own (e.g., plagiarism). The appropriate academic consequence for serious offenses is generally considered to be failure in the course. For offenses regarding small portions of the course work, failure for that portion is suggested with the requirement that the student repeat the work for no credit.

¹Community Standards. Responsibilities of Community Life: The Student Code, Division of Student Affairs, University of Connecticut, 2009.

Classroom expectations: You are expected to arrive before the class is scheduled to begin and remain in your seat during the entire scheduled class time. If you have a cell phone with you, silence the ringer before coming to class. Other electronic devices, such as tablets or laptops, are allowed during the lecture as long as no other students get distracted and find it more difficult to follow the lecture.

Disability: The Center for Students with Disabilities (CSD) at UConn provides accommodations and services for qualified students with disabilities. If you have a documented disability for which you wish to request academic accommodations and have not contacted the CSD, please do so as soon as possible. The CSD is located in Wilbur Cross, Room 204 and can be reached at (860) 486-2020 or at csd@uconn.edu. Detailed information regarding the accommodations process is also available on their website at www.csd.uconn.edu.

University Resources:

UConn provides a number of important resources designed to help students maximize their academic potential and overall college experience.

- UConn Writing Center (http://www.writingcenter.uconn.edu/)
- Quantitative Learning Center (http://www.qcenter.uconn.edu/)
- Digital Learning Center (http://dlc.uconn.edu/about.html)
- Academic Achievement Center (http://web2.uconn.edu/uconnconnects/AAC.htm/)
- Counseling and Mental Health Services (http://www.cmhs.uconn.edu/)
- Sexual Violence Awareness (http://sexualviolence.uconn.edu//)
- Policy Against Discrimination, Harassment and Inappropriate Romantic Relationships (http://policy.uconn.edu/?p=2884//)
- Sexual Assault Response Policy (http://policy.uconn.edu/?p=2139//)



UNIVERSITY OF CONNECTICUT DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

Proposed Week	d Schedule Date	: Day	Topic Module	Instructor	Reading (Ch. # for Mamlouk & Zaniewski)
1	16-Jan	Mo	No Class	mstructor	Reading (Cil. # 101 Manifoux & Zamewski)
	17/19-Jan	T/Th	No Lab		Ch. 1
	23-Jan	Mo	Introduction / Testing Devices	Kay Wille	Ch. 1
2	24/26-Jan	T/Th	Lab 1-Measuring Devices	Jonathon Drasdis	Appendix 1
	30-Jan	Mo	Metals Properties and Testing (Quiz #1)	Arash Zaghi	Ch. 3 & 4 (Section 4.3 only)
3	31/1-Feb	T/Th	Lab 2-Tension, Torsion, Flexure of Metals	Jonathon Drasdis	Appendix 2 & 3
	6-Feb	Mo	No Lecture*		PPT (HuskyCT), Review sieve & hydrometer notes from CE3510,
4	7/9-Feb	T/Th	Lab 3- Sieve and Hydrometer Analysis	Jonathon Drasdis	Appendix 6
	13-Feb	Mo	Aggregates and Specific Gravity (Quiz #2)	Kay Wille	Ch. 5, review soils plasticity notes
5	14/16-Feb	T/Th	Lab 4- Plasticity & Specific Gravity	Jonathon Drasdis	Appendix 7 & 8
6	20-Feb	Mo	Asphalt Materials (Quiz #3)	Kay Wille	Ch. 9
	21/23-Feb	T/Th	Lab 5- Tour CAP Lab	James Mahoney	
	27-Feb	Mo	Portland Cement (Quiz #4)	Kay Wille	Ch. 6
7	1/3-Mar	T/Th	No lab (make-up, if needed)		
	6-Mar	Mo	Proctor Compaction, Bulk Density, Voids	Maria Chrysochoou	Review soils compaction testing notes
8	7/9-Mar	T/Th	Lab 6- Proctor Compaction	Jonathon Drasdis	
	13-Mar	Mo	SPRING BREAK		
	20-Mar	Mo	Concrete (Quiz #5)	Kay Wille	Ch. 7
9	21/23-Mar	T/Th	Lab 7- Concrete Mix, Slump test, and Cylinder Casting	Jonathon Drasdis	Appendix 10,11 & 14
	27-Mar	Mo	No Lecture*		
10	28/30-Mar	T/Th	Lab 8- 7-day concrete compression testing	Jonathon Drasdis	Appendix 16
	3-Apr	Mo	Soil Strength	Maria Chrysochoou	Review soils strength & UC Test notes from CE3510
11	4/6-Apr	T/Th	Lab 9- Unconfined Compression on Soil	Jonathon Drasdis	
	10-Apr	Мо	No Lecture*		Review soils strength & Direct Shear notes from CE3510
12	11/13-Apr	T/Th	Lab 10- Direct Shear testing on soil	Jonathon Drasdis	
	17-Apr	Mo	Wood Materials (Quiz #6)	Kay Wille	Ch. 10
13	18/20-Apr	T/Th	Lab 11- Wood bending & 28-day concrete compression testing	Jonathon Drasdis	Appendix 29
	24-Apr	Mo	Lab Make-up period, if needed		
14	25/27-Apr	T/Th	If needed		

This schedule is tentative and subject to change.

(*) as subject to change if there is a class/lab cancellation during the semester. "No Lab / Lecture" periods are available as make-up dates.

Disclaimer: All information on this syllabus is tentative, and the instructor reserves the right to make revisions as necessary.