University of Connecticut

School of Engineering

Foundation Design CE 4510/5543, Spring 2018

Instructor:

Sarira Motaref, Ph.D., P.E.

Assistant Professor in Residence

Civil and Environmental Engineering

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Office: Engineering II Building, room 310

Office hours: Tuesday 9:30AM-11AM

(Don't limit yourself to this time! You can also email me to set up other times to ask your questions)
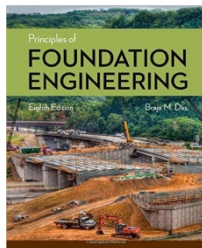
Undergraduate Teacher Assistant: Sarah Hayowyk, Sarah.hayowyk@uconn.edu

Office hours: Wednesday 10:30AM-12PM in CAST 123

Text book:

Principles of Foundation Engineering, 8th Edition, Braja M. Das California State University, Sacramento

ISBN-10: 1305081552 | ISBN-13: 9781305081550

Course Objectives:

By the end of the semester each student will be able to:

- Select and design proper foundation for different types of structures on variable types of soils.
- Calculate the capacity of shallow foundation
- Calculate settlement in shallow foundation
- Understand the mechanism for pile foundations, their capacities, and design
- Design of retaining walls
- Design of Mat foundation

Home works:

- To receive full credit on your homework, you must:
    - o Write neatly;
    - o Note any given values and the value you seek to calculate;
    - o Write your solution including all equations and calculations;
    - o Circle or box your final answer;
    - o Use staple if you submit in multiple pages.

- All homeworks will be posted to HuskyCT gradually during the semester. The due date is mentioned on each assignment. The Homework solution will be posted.

- I will notify you with emails (through the HuskyCT) when I post HWs or HWs' solutions. Please check your emails frequently.

- Feedback on HWs will be provided after 1 week. .

Calculators:

You can use any types of calculator during the class and during the exam.

Teaching style:

- No power point presentation (except the first lecture).
- No Pop-quiz.
- You need to take notes from the board or smart board. Students, who have problem with note taking, please place a request to CSD to hire a note taking assistant for our class.
- You can ask your question in class, email me, and come to office hours.

Your final grade:

Following combination:

Home works	20%
midterm exam1	20%
midterm exam2	20%
Final Exam	40%

Important Dates:

- Thursday, March 8th, Midterm Exam I (75 minutes)

- Thursday, April 19th: 2nd Midterm Exam II (75 Minutes)

- Final Exam: Thursday, May 3rd, 8-10 AM (2hours) [Subjected to change]

- **Grading Scale: (Subjected to change)**

Grade	Letter Grade	GPA
93-100	A	4.0
90-92	A-	3.7
87-89	B+	3.3
83-86	B	3.0
80-82	B-	2.7
77-79	C+	2.3
73-76	C	2.0
70-72	C-	1.7
67-69	D+	1.3
63-66	D	1.0
60-62	D-	0.7
<60	F	0.0

Exams preparation/policy:

- **Make up exams** will be offered to students only in following cases.
    - a) Students with disability can contact CSD to schedule exam in a private room with extended time.
    - b) Athletic team members also can reschedule exam with a letter from their coach (in case of conflict between exams and their tournaments).
    - c) Other case (Medical emergency, family emergency,...):
- **Make up exam date: Tuesday, April 17th 12:30PM-1:45PM (All materials up to this date)**

As a member of the University of Connecticut student community, you are held to certain standards and academic policies. In addition, there are numerous resources available to help you succeed in your academic work. This section provides a brief overview to important standards, policies and resources.

Student Code

You are responsible for acting in accordance with the University of Connecticut's Student Code Review and become familiar with these expectations. In particular, make sure you have read the section that applies to you on Academic Integrity:

- Academic Integrity in Undergraduate Education and Research
- Academic Integrity in Graduate Education and Research

Cheating and plagiarism are taken very seriously at the University of Connecticut. As a student, it is your responsibility to avoid plagiarism. If you need more information about the subject of plagiarism, use the following resources:

- Plagiarism: How to Recognize it and How to Avoid It
- Instructional Module about Plagiarism
- University of Connecticut Libraries' Student Instruction (includes research, citing and writing resources)

Copyright

Copyrighted materials within the course are only for the use of students enrolled in the course for purposes associated with this course and may not be retained or further disseminated.

Netiquette and Communication

At all times, course communication with fellow students and the instructor are to be professional and courteous. It is expected that you proofread all your written communication, including discussion posts, assignment submissions, and mail messages. If you are new to online learning or need a netiquette refresher, please look at this guide titled, The Core Rules of Netiquette.

Adding or Dropping a Course

If you should decide to add or drop a course, there are official procedures to follow:

- Matriculated students should add or drop a course through the Student Administration System.
- Non-degree students should refer to Non-Degree Add/Drop Information located on the registrar's website.

You must officially drop a course to avoid receiving an "F" on your permanent transcript. Simply discontinuing class

or informing the instructor you want to drop does not constitute an official drop of the course. For more information, refer to the:

- Undergraduate Catalog
- Graduate Catalog

Academic Calendar
The University's Academic Calendar contains important semester dates.

Academic Support Resources
Technology and Academic Help provides a guide to technical and academic assistance.

Students with Disabilities
Students needing special accommodations should work with the University's Center for Students with Disabilities (CSD). You may contact CSD by calling (860) 486-2020 or by emailing csd@uconn.edu. If your request for accommodation is approved, CSD will send an accommodation letter directly to your instructor(s) so that special arrangements can be made. (Note: Student requests for accommodation must be filed each semester.) Blackboard measures and evaluates accessibility using two sets of standards: the WCAG 2.0 standards issued by the World Wide Web Consortium (W3C) and Section 508 of the Rehabilitation Act issued in the United States federal government." (Retrieved March 24, 2013 from

http://www.blackboard.com/platforms/learn/resources/accessibility.aspx)

Software Requirements and Technical Help

- Word processing software
- Adobe Acrobat Reader
- Internet access

(add additional items as needed and link to http://ecampus.uconn.edu/plug-ins.html)

This course is completely facilitated online using the learning management platform, HuskyCT. If you have difficulty accessing HuskyCT, online students have access to the in person/live person support options available during regular business hours in the Digital Learning Center (www.dlc.uconn.edu). Students also have 24x7 access to live chat, phone and support documents through www.ecampus24x7.uconn.edu.

Minimum Technical Skills

To be successful in this course, you will need the following technical skills:

- Use electronic mail with attachments.
- Save files in commonly used word processing program formats.
- Copy and paste text, graphics or hyperlinks.
- Work within two or more browser windows simultaneously.
- Open and access PDF files.

(add additional items as needed and link to http://ecampus.uconn.edu/plug-ins.html)

University students are expected to demonstrate competency in Computer Technology. Explore the Computer Technology Competencies page for more information.