

COURSE SYLLABUS

CE 6312 In-Situ Testing and Interpretation

Spring' 2013

Tue and Thu 11:00 AM to 12:20 AM

202 Nedderman Hall

Instructor: Dr. Bhaskar Chittoori, Faculty Associate-Research, Civil Engg.

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Class Hours: Tue and Thu 11:00 – 12:20 AM (111 Nedderman Hall)

Office Hours: Tue and Thu (8:30 to 11:00 AM) & (1:00 to 2:00 PM)

Course Contents:

In Situ Test Methods, Advantages and Limitations, SPT, CPT, DCPT, CPTU or Piezocone, DMT, Pressuremeter, Shear Vane and Other Field Test Methods, Non-destructive Seismic, resistivity, electromagnetic methods, Soil Property Interpretation Procedures, Direct and Indirect Applications for Settlement Calculations.

Student Learning Outcomes:

To provide the graduate student with an understanding of various geotechnical intrusive “in situ” test methods and their interpretation procedures for soil properties and applications in geotechnical design.

In addition, this course will focus on the following students’ abilities and educational outcomes:

- Ability to command basic and applied knowledge in geotechnical engineering.
- Ability to conduct independent and original studies, including gathering of information to propose, create, document the study and its resolution.
- Ability to critique and synthesize literature, review results and to apply this knowledge in developing new ideas; in designing and evaluating scientific investigations; and in assessing, interpreting and understanding data.

- Demonstrate mastery of the subject matter at a deeper theoretical and applied level beyond the fundamental knowledge gained in the undergraduate courses.
- Ability to present scientific results in written and oral formats to various forums.
- Improve interpersonal skills to become and good team players.
- Demonstrate interest in pursuing lifelong learning.

Required Text Book:

Handouts and Papers, Class Power Point Presentations

Prerequisites: CE3343 or Consent of Instructor

Major examinations: Two exams and one technical paper (with presentation) will be given.

One week of advance notice will be provided in scheduling the exams. Examinations will be either open book classroom or take home examinations.

The presentations by students are going to be made in the final review week (dead week).

Grading Policy:

Exam-1	30%
Exam-2	30%
Home Work	20%
Term paper and presentation	20%

(90 - 100%: **A**; 80 - 89%: **B**; 70 - 79%: **C**; 60 - 69%: **D**; <60%: **F**)

Attendance Policy: Class attendance and punctuality are expected. Anyone missing class for whatever reason is responsible for any class notes and announcements given in that class.

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-**

attendance. Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. Contact the Financial Aid Office for more information.

E-Culture Policy: The University of Texas at Arlington has adopted the University "MavMail" address as the sole official means of communication with students. MavMail is used to remind students of important deadlines, advertise events and activities, and permit the University to conduct official transactions exclusively by electronic means. For example, important information concerning registration, financial aid, payment of bills, and graduation are now sent to students through the MavMail system. All students are assigned a MavMail account.

Students are responsible for checking their MavMail regularly. Information about activating and using MavMail is available at <http://www.uta.edu/oit/email/>. There is no additional charge to students for using this account, and it remains active even after they graduate from UT Arlington.

Make-up Exam Policy: A make-up examination may be given only if a regular examination is missed for a justifiable reason. Submit a written request within one week after a scheduled examination is missed.

Grade Grievance Policy: Grade grievances will be handled according to the policy described in the College of Engineering portion of the Catalog.

Other Policies:

1. Cell phones and laptop computers should be turned off during the class.

Americans With Disabilities Act: The University of Texas at Arlington is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 92-112 - The Rehabilitation Act of 1973 as amended. With the passage of federal legislation entitled *Americans with Disabilities Act (ADA)*, pursuant to section 504 of the Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens.

As a faculty member, I am required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing faculty of their need for accommodation and in providing authorized documentation through designated administrative channels. Information regarding specific diagnostic criteria and policies for obtaining academic accommodations can be found at www.uta.edu/disability. Also, you may visit the Office for Students with Disabilities in room 102 of University Hall or call them at (817) 272-3364.

Academic Integrity: It is the philosophy of The University of Texas at Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Discipline may include suspension or expulsion from the University.

According to the UT System Regents' Rule 50101, §2.2, "Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts."

Student Support Services Available: The University of Texas at Arlington supports a variety of student success programs to help you connect with the University and achieve academic success. These programs include learning assistance, developmental education, advising and mentoring, admission and transition, and federally funded programs. Students requiring assistance academically, personally, or socially should contact the Office of Student Success Programs at 817-272-6107 for more information and appropriate referrals.