CEE 6402 Syllabus

Soil Mechanics A

Fall 2026

Instructor Information

Instructor: J. Carlos SANTAMARINA

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General Course Information

Description

Sediments are multiphase particulate materials. Their unique macroscale properties and behavior reflect intricate grain/pore-scale processes and phenomena. Implications affect all forms of engineering, from infrastructure and energy to the environment.

Course Learning Outcomes

Upon successful completion of this course, you should be able to:

- Analyze classical and advanced processes in the subsurface
- Address challenges in geotechnical, coastal, and energy geotechnics
- Build a strong foundation for further studies and research

Required Course Materials

Reading assignments based on published papers assigned in class

Grading Policy:

Homework 25% + Tests: 3x25%

Description of Graded Components

- Homework due every Monday. Individual submission
- Tests are in class and closed book and notes.

Course Policies

Attendance and/or Participation

Attendance and active participation: strongly encouraged.

Academic Integrity

Georgia Tech aims to cultivate a community based on trust, academic integrity, and honor. Students are expected to act according to the highest ethical standards. Review Georgia Tech's Honor Code and the student Code of Conduct.

Any student suspected of cheating or plagiarism on a quiz, exam, or assignment will be reported to the Office of Student Integrity, who will investigate the incident and identify the appropriate penalty for violations.

Accommodations for Students with Disabilities

If you are a student with learning needs that require special accommodation, contact the Office of Disability Services (404-894-2563) as soon as possible to make an appointment to discuss your special needs and to obtain an accommodations letter. Please also e-mail me as soon as possible in order to set up a time to discuss your learning needs.

Student-Faculty Expectations Agreement

At Georgia Tech, we believe that it is important to strive for an atmosphere of mutual respect, acknowledgement, and responsibility between faculty members and the student body. The Student-Faculty Expectations articulate some basic expectations that you can have of me and that I have of you. In the end, simple respect for knowledge, hard work, and cordial interactions will help build the environment we seek.

Pre- &/or Co-Requisites

Undergraduate course in soil mechanics

Collaboration, Group Work, and Use of Generative AI

You are encouraged to work in groups on all homework and out-of-class assignments. But any work you turn in must be written in your own hand. In-class tests are to be your own work. All in-class tests will be closed book and notes

Extensions, Late Assignments, & Re-Scheduled/Missed Exams

Late homework and make-up tests will be approved on a case-by-case basis, in accordance with Institute guidelines.