COE 2001 Syllabus
Statics COE 3001, Section H, 2 Credits
Fall 2026

Instructor Information

Instructor: Prof. Olivier Pierron

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General Course Information

Description
Elements of statics in two and three dimensions, free-body diagrams, distributed loads, centroids, and friction.

Course Learning Outcomes
Students will demonstrate the ability to:

- describe position, forces, and moments in terms of vector components in 2 and 3 dimensions
- select suitable reference coordinate axes, construct free-body diagrams, and understand the relation between constraints imposed by supports and support forces
- formulate static equilibrium equations for a rigid body and evaluate member forces in frames, machines, trusses and beams
- apply Coulomb's dry friction laws to engineering problems

Required Course Material
Engineering Mechanics: Statics by Meriam, Kraige and Bolton 9th Edition. Earlier editions of this textbook are fine too.

Grading Policy:
Homework: 10% of Final Grade
Attendance: 10% of Final Grade
Each of the 9 problems problems (2 problems for Test 1, 2 problems for Test 2 and 5 problems for Final Exam) will be graded out of 100 pts. The best 8 scores will be used to account for 80% of the Final Grade (i.e., the lowest score from the 9 problems will be dropped)
Grades will follow the scale 90:80:70:60 for A:B:C:D.

Description of Graded Components
The two midterms and final exam are in class and closed book and notes. An equation sheet is provided.

Course Policies

Attendance and/or Participation

This will be an active classroom, where you will be expected to participate. I have noticed a drastic difference in the exam performance between students who regularly attend class and those who don't. Therefore, I will count attendance in determining your final grade.

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 a letter of accommodation. Please also e-mail me as soon as possible 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. Therefore, I encourage you to remain committed to the ideals of Georgia Tech while in this class.

Pre- &/or Co-Requisites

Physics 2211

Collaboration, Group Work, and Use of Generative AI

You are allowed to work in groups on all homework and out-of-class assignments, but any work you turn in must your own. In-class tests and exams are to be your own work. All in-class tests and exams will be closed book and notes, but I will provide an equation sheet.

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

Late homework will be penalized accordingly. Make-up exams are given for illness, approved Institute activities or religious observances.