

## 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 9<sup>th</sup> 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 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 be 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.