

## Syllabus

**Description:** **ME 8963 Spec Topics Fluid Mech (3-0-3)**  
Prerequisites: knowledge of programming and analytical techniques

Individual studies and/or experimental investigations of problems of current interest in fluid mechanics. Based on the student's interest and programming skills, the course could combine hands-on laboratory experimentation with modern, physics-informed AI techniques to analyze and solve problems of interest in fluid mechanics.

**Reference books:** none

**Instructor:** Professor Cyrus K. Aidun  
Office: 320 Love Building  
e-mail: cyrus.aidun@me.gatech.edu

### Course Learning Outcomes

Learning experimental methods and team work in fluid mechanics research  
Learning how to record and organize data  
Understanding the principles of dimensional analysis and other techniques in fluid mechanics

### Course Policies

#### Attendance and/or Participation

You will be expected to develop a schedule with your supervisor and participate as planned. 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.

#### Core IMPACTS

[Core IMPACTS](#) is the University System of Georgia's General Education curriculum. If you are teaching a course that counts towards Core IMPACTS, you should include a syllabus statement about the Core area and associated career competencies. This resource developed by the Center for Excellence in Teaching and Learning and Online Education at Georgia State University includes template syllabus statements for each of the Core IMPACTS areas that you may adapt for your course.

### **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. Therefore, I encourage you to remain committed to the ideals of Georgia Tech while in this class.

### **Collaboration, Group Work, and Use of Generative AI**

You are allowed to work in groups on all assignments and consult with research group members, but any work you turn in must be written in your own hand and credit should be given if any other students has provided assistance.

### **Grade**

Will be based on performance in the lab and results.