

ME 4342 Syllabus

Computational Fluid Dynamics, Section A01, 3 Credits

Fall 2026

Instructor Information

Instructor: Alexander Alexeev

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General Course Information

Description

Lab for ME 4342 Computational Fluid Dynamics

Required Course Materials

No textbook.

Grading Policy:

The work during the term will be weighted to determine the final course score as follows.

CFD Labs - 72%

CFD Project - 20%

Project Presentation - 8%

A>90; B>80; C>70; D>60

Description of Graded Components

Computing Labs: Six CFD lab assignments will be posted on the course web site during the term. The due date and time will be posted with each assignment. Only electronic homework submission will be allowed. The students will write a lab report for each assignment. A template for the report will be available on the course web site. A grading rubric will be posted with the assignment.

Computing Project: There will be one individual CFD project of student's choosing. The project topic has to be clear to the instructor to ensure the project can be accomplished in

the time frame of the course. The students will have about four weeks to do this project. The students will prepare a project report. A template for the report will be available on the course web site. A grading rubric will be posted with the project assignment.

Project Presentation: The students will prepare a 5-minute video about their project and present it in class during the time slot allocated for the course final exam. The best videos will be posted on the course YouTube channel. The students can opt out of publishing the video without affecting their grade, if they prefer not to have their video posted on YouTube.

Course Policies

Attendance and/or Participation

You are expected to attend and participate in lectures and labs. Class attendance and participation may be considered in the assignment of final grades.

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

Not applicable

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.

Pre- &/or Co-Requisites

Prerequisites: ME 3340 Fluid Mechanics, ME 3345 Heat Transfer

Campus Resources for Students

Undergraduate Student Academic Success Resources:

Academic Support: Academic Success and Advising (a unit in the Office of Undergraduate Education & Student Success) provides free support for your courses. Students can attend scheduled supplemental review (PLUS) sessions, stop by Drop-In Tutoring, or schedule a one-on-one appointment through Knack. To explore what options work best for you, please visit us online at success.gatech.edu/tutoring, email us at tutoring@gatech.edu, or come see us at Clough Undergraduate Learning Commons, Suite 283.