[AE 9000] Syllabus

Doctoral Thesis, AE 9000, Variable credit

Instructor Information

Instructor: Lakshmi N. Sankar

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General Course Information

Description

Independent research conducted under the guidance of a faculty member.

Course Learning Outcomes

Students will be assigned a topic of interest in the field of computational fluid dynamics. At the completion of this course over multiple semesters, students will be able to prepare a scholarly dissertation on their chosen topic of interest and orally defend their research.

Required Course Materials

Freely available CFD software (in-house, commercial with free student license, and free-ware)

Grading Policy:

(S/U) Credit, Satisfactory progress should be made during each semester to earn a 'Satisfactory' credit.

Description of Graded Components

Students will choose a topic from a list of available topics and submit a written dissertation, and any associated software tools developed as part of the effort.

Course Policies

Attendance and/or Participation

This is a self-study course. Students will meet periodically with instructor and thesis committee members (live or on-line, at mutually convenient times) to discuss progress being made on the chosen topic.

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-Requisites and Co-Requisites

Graduate standing

Extra Credit Opportunities

None

Collaboration, Group Work, and Use of Generative AI

Use of generative AI tools to prepare the dissertation is not allowed.

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

N/A

Inclement Weather and Digital Learning Days

N/A, Participation in online sessions is voluntary.

Student Use of Mobile Devices in the Classroom

N/A

Campus Resources for Students

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.

Student Well-Being:

At Georgia Tech, we are concerned about your overall physical, social, and mental well-being. A comprehensive list of wellness related resources has been compiled and maintained by the Office of the Vice President for Student Engagement and Well-being (student-resource-guide (gatech.edu)