

Thesis Course Syllabus

Course Information

Course Prefix and Number: CS4699

Course Name: Undergraduate Research

Instructor: De Choudhury, Munmun

Course Description

This course provides undergraduate students with academic credit for advanced, independent research conducted under the guidance of a Georgia Tech faculty advisor. It is intended for students undertaking substantial, sustained research projects that may culminate in an undergraduate thesis, publication, or other scholarly contribution. While the course does not include formal lectures or examinations, students engage in rigorous, self-directed inquiry involving the formulation of research questions, development of methodological approaches, and analysis and interpretation of findings. Projects may span computing and interdisciplinary domains, including computational social science, human-centered AI, and the study of digital behavior and well-being, as well as the broader societal and ethical implications of data-driven technologies. The scope and direction of the work are determined collaboratively by the student and advisor.

Course Learning Outcomes

By enrolling in this course, students will:

- Conduct independent, advanced research demonstrating substantial ownership of the research process and outcomes.
- Formulate and investigate original research questions grounded in prior literature and theoretical or applied significance.
- Design and implement appropriate methodological approaches (e.g., computational, experimental, qualitative, or mixed methods) to address complex problems.
- Analyze and synthesize findings to generate insights that contribute to existing knowledge.
- Critically evaluate the broader societal, ethical, and human-centered implications of their research.
- Communicate research contributions effectively through formal written reports, presentations, or other scholarly dissemination formats.

Required Course Materials

No textbooks or materials are required. Resources for research are determined in consultation with the thesis advisor.

Grading Policy

This course is graded on a Satisfactory (S) / Unsatisfactory (U) basis.

- A grade of Satisfactory (S) indicates that the student has made acceptable progress in their research toward degree completion, consistent with the number of thesis credit hours for which the student is enrolled for the semester.
- A grade of Unsatisfactory (U) indicates that the student did not meet the expectations for satisfactory performance during the term.

Attendance Policy

This course does not include scheduled class meetings. Students conduct independent research under the supervision of a thesis advisor. The frequency and format of student-advisor contact are determined by mutual agreement.

Academic and Research Honesty/Integrity Statement

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 the and the , especially [.Student Code of ConductAcademic Honor CodeAppendix A: Graduate Addendum to the Academic Honor Code](#)

Students are expected to perform research in an ethical and responsible manner. All Doctoral and Master's Thesis students are required to take the , and it is expected that students abide by the principles taught in that training while performing research for this thesis course.[Responsible Conduct of Research training](#)

Allegations of scientific or scholarly misconduct are handled in accordance with the procedures outlined by the [.Policy for Responding to Allegations of Scientific or Other Scholarly Misconduct](#)

Core IMPACTS

Not applicable.

Accommodations for Students with Disabilities

If you are a student with learning needs that require special accommodation, 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.[contact the Office of Disability Services](#)

[Expectations of Advisors and Advisees](#)

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 articulates 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. [Expectations of Advisors and Advisees](#)