

EAS 4699 – Undergraduate Research

Course Information

Instructor: Prof. Jennifer Bowen (jenniferbowen@gatech.edu)

Course Prefix and Number: EAS 4699

CRN: 94773

Term: Fall 2026

Course Description

Undergraduate research involves a research, scholarly, or creative project conducted by an undergraduate student under the guidance of a faculty mentor that contributes new knowledge and/or discoveries to the broader professional community.

Course Learning Outcomes

By enrolling in this course, students will:

1. Demonstrate ability to properly identify and/or generate reliable data
2. Read and apply information obtained from professional journals and other sources
3. Demonstrate ability to formulate questions and hypotheses within the discipline
4. Use a reflective and iterative approach to problem solving
5. Demonstrate an ability to work independently and identify when guidance is needed
6. Accept constructive criticism and uses feedback effectively
7. Use information in ways that demonstrate intellectual resourcefulness
8. Demonstrate an ability to interpret, evaluate, and create visual representations of ideas
9. Express ideas orally in an organized, clear, and concise manner
10. Show understanding of the importance of principles of Responsible Conduct of Research (RCR)

Required Course Materials

No textbooks or materials are required. Resources for research are determined in consultation with the faculty mentor.

Acceptable Student Conduct

Students will discuss with Prof. Bowen and agree on expectations before beginning the undergraduate research course. Expectations should include the student's weekly time commitment; methods and frequency of communication between the student and mentor(s); how research will be recorded, stored, and shared; how support will be provided; and when and how students will reflect on their successes and challenges.

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](#) agreement articulates some basic expectations that you can have of me and that I have of you. Disruptive behavior, harassment, or conduct that interferes with the learning of others is not acceptable. 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 course.

Grading Policy

Since research does not always have expected or consistent outcomes, course grading will be determined solely by the student's consistent application of effort, communication with Prof. Bowen, willingness to consult the literature, and production of some final synthesis of research findings (even for null results).

Attendance Policy

Undergraduate research students will participate in research activities on a weekly basis commensurate with registered credit hours and as discussed with Prof. Bowen.

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 [Student Code of Conduct](#) and the [Academic Honor Code](#).

Students are expected to perform research in an ethical and responsible manner. All work submitted must be original and properly cited. Plagiarism, cheating, or any form of academic dishonesty will result in immediate consequences as outlined in the university's academic honor code: <https://policylibrary.gatech.edu/student-life/academic-honor-code>

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](#).

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.

Campus Resources

The Undergraduate Research Opportunities Program (UROP) on campus provides resources and support for undergraduate students carrying out research and their research mentors. Visit <https://undergradresearch.gatech.edu/> or contact UROP at urop@gatech.edu for more information.