

ME4699 – Undergraduate Research: Syllabus

Course Name

ME4699: Undergraduate Research

Instructor

Alexander Alexeev

Section

AX3

CRN

52499

Semester

Summer

Academic Year

2026

Course Description

Undergraduate research conducted under the guidance of a faculty mentor.

Course Learning Outcomes

- Communication
 - Expresses ideas orally in an organized, clear, and concise manner
 - Writes clearly and concisely using correct grammar, spelling, syntax, and sentence structure
- Creativity
 - Shows ability to approach problems from different perspectives
 - Uses information in ways that demonstrate intellectual resourcefulness
 - Effectively connects multiple ideas/approaches
- Intellectual Development
 - Recognizes that problems are often more complicated than they first appear
 - Approaches problems with an understanding that there can be more than one right explanation or even none at all
- Critical Thinking and Problem Solving
 - Uses a reflective and iterative approach to problem solving
 - Looks for the root causes of problems and develops or recognizes the most appropriate corrective actions
 - Recognizes flaws, assumptions, and missing elements in arguments
- Ethical Conduct

- Shows understanding of the importance of principles of Responsible Conduct of Research (RCR)

Required Course Materials

No textbooks or materials are required.

Statement About Acceptable Student Conduct

Faculty research mentors and students should discuss and agree on expectations before beginning an 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; 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 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.

To support mutual respect and understanding between students and faculty, Georgia Tech faculty and students collectively adopted a list of student-faculty expectations. See the full Student-Faculty Expectations agreement here: <https://catalog.gatech.edu/rules/22/>

Grading Policy

Participation: 50%

Project report: 50%

- ME4699: Letter grade

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

Attendance Policy

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

Academic Honesty/Integrity Statement

Students are expected to maintain the highest standards of academic integrity. 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>

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) provides resources and support for undergraduate research students and their mentors. Visit <https://undergradresearch.gatech.edu/> or contact UROP at urop@gatech.edu for more information.