

CHEM2699 – Undergraduate Research: Syllabus

Course Name

- CHEM2699: Undergraduate Research Assistantship

Instructor

Lynn Kamerlin

CRN

53942

Semester

Summer 2026

Course Description

Undergraduate research conducted under the guidance of a faculty mentor.

Course Learning Outcomes

- Communication
 - Uses and understands professional and discipline-specific language
 - Expresses ideas orally in an organized, clear, and concise manner
 - Writes clearly and concisely using correct grammar, spelling, syntax, and sentence structure
 - Demonstrates an ability to interpret, evaluate, and create visual representations of ideas
- Creativity
 - Shows ability to approach problems from different perspectives
 - Uses information in ways that demonstrate intellectual resourcefulness
 - Effectively connects multiple ideas/approaches
- Autonomy
 - Demonstrates an ability to work independently and identify when guidance is needed
 - Accepts constructive criticism and uses feedback effectively
 - Uses time well to ensure work gets accomplished
- Ability to Deal with Obstacles
 - Is not discouraged by setbacks or unforeseen events and perseveres when challenges are encountered
 - Shows flexibility and a willingness to take risks and try again
 - Troubleshoots problems and searches for ways to do things more effectively

- 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
 - Displays insights into the limits of their knowledge and an appreciation for what isn't known
- 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
- Practice & Process of Inquiry
 - Demonstrates ability to formulate questions and hypotheses within the discipline
 - Demonstrates ability to properly identify and/or generate reliable data
 - Shows understanding of how knowledge is generated, validated, and communicated within the discipline
- Nature of Disciplinary Knowledge
 - Shows understanding of the criteria for determining what is valued as a contribution in the discipline
 - Shows awareness of important contributions in the discipline and who was responsible for those contributions
 - Reads and applies information obtained from professional journals and other sources
- Project Knowledge and Skills
 - Displays knowledge of key facts and concepts
 - Displays a grasp of relevant methods and is clear about how these methods apply to the research project
 - Demonstrates an appropriate mastery of skills needed to conduct the project
- Ethical Conduct
 - Shows 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 instructor.

Statement About Acceptable Student Conduct

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](#), especially [Appendix 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 [Responsible Conduct of Research training](#), and it is expected that students abide by the principles taught in that training while performing research.

Any student suspected of cheating or plagiarizing 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.

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](#).

Student-Faculty Expectations

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](#) articulates some basic expectations that you can have of me and that I have of you. Additional information for research-related work is given in [The Expectations of Advisors and Advisees](#). 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.

Grading Policy

Grading will follow letter grades, based on research progress and mastery of research skills.

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.