

## **CHEM 4694 Syllabus**

Intern Assistantship, variable number of credit hours by student

### **Instructor Information**

---

**Instructor: Pamela Pollet**

**Email: [pamela.pollet@chemistry.gatech.edu](mailto:pamela.pollet@chemistry.gatech.edu)**

### **General Course Information**

---

#### **Description**

Undergraduate research conducted under the guidance of a mentor outside of the School of Chemistry and Biochemistry.

#### **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)
  - Employs best practices with regards to all safety considerations relevant to their research, including the completion of all relevant safety training courses offered by Georgia Tech

## **Required Course Materials**

There are no required materials for this course.

## **Grading Policy:**

The course is an audit/for pay course. No grade is associated with this course.

Your participation and intellectual engagement in the research is expected as discussed with your instructor at the beginning of the semester.

## **Course Policies**

---

### **Attendance and/or Participation**

Undergraduate research students will participate in research activities on a weekly basis commensurate with registered credit hours and as discussed with faculty research mentors. For a 3-credit course, approximately 9 hours per week of project-related effort is expected.

Additional requirements:

1. Site-specific safety training(s) must be completed and documented prior to initiating research.
2. Students must comply with all organizational policies and procedures during the course of the internship.
3. Student must follow the GT Honor Code and all intellectual property requirements for the organization and engage in responsible and ethical professional practices.
4. Confirmation of participation is required by GaTech at mid-semester. Instructor will be reaching out to the supervisor/mentor/PI by email at that time.

### **Academic Integrity**

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.

## **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.

## **Campus Resources for Students**

---

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](mailto:urop@gatech.edu) for more information.