

Undergraduate Research

Last Updated: Tue, 03/17/2026

Course prefix: PHYS

Course number: 4699

Section: XW

CRN

82974

Instructor first name: Xueda

Instructor last name: Wen

Semester: Fall

Academic year: 2026

Course description: Independent research conducted under the guidance of a faculty member.

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 integrity policy.

One serious kind of academic misconduct is plagiarism, which occurs when a writer, speaker, or designer deliberately uses someone else's language, ideas, images, or other original material or code without fully acknowledging its source by quotation marks as appropriate, in footnotes or endnotes, in works cited, and in other ways as appropriate (modified from WPA Statement on "Defining and Avoiding Plagiarism"). If you engage in plagiarism or any other form of academic misconduct, you will fail the assignment in which you have engaged in academic misconduct and be referred to the Office of Student Integrity, as required by Georgia Tech policy. We strongly urge you to be familiar with these Georgia Tech sites:

- Honor Challenge — <https://osi.gatech.edu/students/honor-code>
- Office of Student Integrity — <http://www.osi.gatech.edu/index.php/>

Additionally, in this course, we will be learning and communicating without the aid of Generative AI (genAI) tools. Using genAI tools in the work of the course (including assignments, discussions, ungraded work, etc.) is **not allowed**. You may not use genAI to brainstorm, conduct research, think through a project, get feedback on your work, generate any content (writing, images, audio, video, etc.) for your work, or complete any

other task. Using genAI tools in the course will be considered an infraction of the Georgia Tech Honor Code subject to investigation by the Office of Student Integrity. You **may** use AI tools that identify grammatical errors, so long as the tool is not rewriting your sentences for you. If you're unsure about a particular tool, please come talk to me before you use it.

Core IMPACTS statement(s) (if applicable):

This is a Core IMPACTS course that is part of the Writing area.

Core IMPACTS refers to the core curriculum, which provides students with essential knowledge in foundational academic areas. This course will help master course content, and support students' broad academic and career goals.

This course should direct students toward a broad Orienting Question:

- How do I write effectively in different contexts?

Completion of this course should enable students to meet the following Learning Outcomes:

- Students will communicate effectively in writing, demonstrating clear organization and structure, using appropriate grammar and writing conventions.
- Students will appropriately acknowledge the use of materials from original sources.
- Students will adapt their written communications to purpose and audience.
- Students will analyze and draw informed inferences from written texts.

Course content, activities and exercises in this course should help students develop the following Career-Ready Competencies:

- Critical Thinking
- Information Literacy
- Persuasion