Bioprocess Engineering

Last Updated: Tue, 03/17/2026

Course prefix: BMED

Course number: 6779

Section: A

CRN
91497

Instructor first name: Pamela

Instructor last name: Peralta-Yahya

Semester: Fall

Academic year: 2026

Course description: Study of enzymes and microbial and mammalian cells for production of biochemicals and protein therapeutics in bioreactors; downstream separation and purification; integrated view of bioprocesses. Crosslisted with CHE 6779.

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.

For class discussions and research projects you will be asked to collaborate with other classmates. You are also encouraged to form online study groups in order to help yourself and others understand the course materials. However, any other assignment that forms the basis of your final grade must be your own original work. This includes all exams and homework.

GT aims to cultivate a community based on trust, academic integrity, and honor. Students are expected to act according to the highest ethical standards and follow Georgia Tech's Honor Code.

Any student suspected of cheating or plagiarizing will be reported to the Office of Student Integrity, who will investigate the incident and identify the appropriate penalty for violations.

Use of Generative Artificial Intelligence (AI) Tools

You may use generative AI programs (e.g. ChatGPT) to help generate ideas and brainstorm. You should be aware that the material generated by these programs may be inaccurate, incomplete, biased or otherwise problematic. Additionally, use of these tools may stifle your own independent thinking and creativity in Spanish.

Generative AI derives its output from previously created texts from other sources that the models were trained on yet doesn't cite sources. Per Georgia Tech's Honor Code, you may not submit any work generated by an AI program as your own. If you include material generated by an AI program, it should be cited like any other reference material (with due consideration for the quality of the reference, which may be poor). When/if you use AI platforms in your assignments, please write a note to clarify where in your process you used AI, include the prompt used to generate the material, and which platform(s) you used. AI tools during an exam are never permitted.

Core IMPACTS statement(s) (if applicable):

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

This course should direct students toward a broad Orienting Question:

- How do I interpret the human experience through creative, linguistic, and philosophical works?

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

- Students will effectively analyze and interpret the meaning, cultural significance, and ethical implications of literary/philosophical texts or of works in the visual/performing arts.

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

- Ethical Reasoning
- Information Literacy
- Intercultural Competence