

Environmental Engineering Principles

Course Information

Instructor: Katherine Graham (katherine.graham@ce.gatech.edu)

Course Prefix and Number: CEE 2300

Term: Fall 2026

Course Description

Introduction to chemical, biological, and physical processes in the environment. Discussion of the basic processes governing air, water and land quality, and the behavior and impacts of contaminants associated with human and industrial activities.

Course Learning Outcomes

Outcome 1: The student will be introduced to fundamental principles needed to address a variety of issues associated with engineering systems (e.g., wastewater treatment) and the pollution of the environment.

Outcome 2: The student will learn fundamental physical, chemical and biological principles, which will be introduced using specific examples from treating air, water and solid waste.

Outcome 3: The student will develop and utilize fundamental principles for environmental applications.

Required Course Materials

M.L. Davis and S.J. Masten. "Principles of Environmental Engineering and Science" McGraw-Hill, 4th Edition, 2014.

Grading Policy and Weighting

Grades will be assigned by the following scale for the following assignments and examinations:

A	80-100%
B	70-79%
C	60-69%
D	50-59%
E	<50%

Grading:	Homework (5)	5%
	Class participation	10%

Problem-based learning assignments	10%
Midterm exams (2)	40%
Final exam	35% (comprehensive)

Attendance Policy

Each student is expected to attend lectures. Students may have up to three (3) unexcused absences without impacting their class participation grade. Each additional missed lecture after the third will require a doctor's note, a letter from the Dean of Students, etc. for excusal.

Academic and Research Honesty/Integrity Statement

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 Georgia Tech's Honor Code and the student Code of Conduct.

Any student suspected of cheating or plagiarism 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. The use of cell phones in any capacity is prohibited during all exams, and all technology must be put securely in bags prior to any in-class assessments.

Core IMPACTS

Not applicable.

Acceptable Student Conduct Statement

The Georgia Tech community believes in maintaining a culture of mutual respect and shared responsibility between faculty members and students. All Student-Faculty Expectations for conduct can be found in the GT Catalog under section XXII. Student-Faculty Expectations.

Accommodations for Students with Disabilities

If you are a student with learning needs that require special accommodation, [contact the Office of Disability Services](#) 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.