

CP 4030 Syllabus

City and Technology, 3 Credits

Summer 2026

Instructor Information

Instructor: Dr. L. Katie OConnell

Email: L.KatieOConnell@gatech.edu

General Course Information

Description

The "City and Its Technology " course offers an in-depth exploration of the impact of technology on urban development and living. Students will explore core principles of tech-driven urban spaces, innovations reshaping urban transportation, and digital solutions promoting urban sustainability. This curriculum covers technology's role in urban health, security, environmental monitoring, and introduces developments like smart grids, self-maintaining infrastructures, and renewable energy solutions. As artificial intelligence will rapidly change cities, students will think about the ethical, legal, and societal challenges of this technological advancement.

Course Learning Outcomes

Upon successful completion of this course, you should be able to understand:

- Understand the role and impact of technology in various aspects of urban living and development.
- Analyze the ethical, societal, and legal implications of implementing technology in urban spaces.
- Develop practical skills through projects, enhancing problem-solving abilities and creative thinking.
- Prepare to engage with current and future urban challenges, contributing to sustainable urban environments.

Required Course Materials

All required materials will be made available on our Canvas site. There are no textbooks that you must purchase. All readings and assignments will be posted on Canvas.

Grading Policy:

A>90; B>80; C>70; D>60

Assignments

- Module 1, 5%
- Module 2, 5%
- Module 3, 5%
- Module 4, 5%
- Module 5, 5%
- Module 6, 5%
- Module 7, 5%
- Module 8, 5%
- Module 9, 5%
- Module 10, 5%
- Module 11, 5%
- Module 12, 5%
- Module 13, 5%
- Final Assignment, 35%

Description of Graded Components

Each module includes a quiz, assignment related to the module's theme, and a reflection. All components of the course will be online.

Course Policies

Attendance and/or Participation

This course does not include scheduled class meetings.

Academic Integrity

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.

Core IMPACTS

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 understand human experiences and connections?

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

- Students will effectively analyze the complexity of human behavior, and how historical, economic, political, social, or geographic relationships develop, persist, or change.

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

- Intercultural Competence
- Perspective-Taking
- Persuasion

Persuasion 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.