

BC 6002 Syllabus

Issues in Sustainable Construction BC 6002, Section EF, 3 Credits

Fall 2026

Instructor Information

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General Course Information

Description

Introduction to sustainable/green construction, green building assessment, and the energy and environmental issues related to buildings, while providing a foundational understanding of sustainable construction materials and their role in high-performance green buildings.

Course Learning Outcomes

Understand the basic principles of sustainable construction.

Recognize the primary features, aspects, and categories that define a high-performance green/sustainable building.

Demonstrate knowledge of the technologies, methods, and means for producing and operating high performance green buildings.

Identify and interpret the various guidelines, standards, industry tools, and rating systems (LEED) utilized in green buildings.

Understand and apply the basic understanding of sustainable materials for achieving high performance green building.

Required Course Materials

Sustainable construction: green building design and delivery by Charles J. Kibert., 5th Edition, John Wiley & Sons, Inc. available at Georgia Tech Barnes and Noble Bookstore.

Grading Policy:

Quiz (~6 short in-class quizzes) 20%; Mid Term Exam 20%; Final 20%; Homework 20%; Project 20%.

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

Assignments

- Quiz, 20%
- Test, 20%
- Project, 20%
- Mid Term Exam, 20%
- Final Exam, 20%

Description of Graded Components

Quizzes are conducted in class and are open book and notes, while exams are also in class but closed book and notes. Equation sheet provided

Course Policies

Attendance and/or Participation

This is an active learning classroom where participation is expected. Regular attendance and engagement are essential to your success and will be assessed through short in-class quizzes. Attendance will also be considered as part of your final grade.

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](#) is the University System of Georgia's General Education curriculum. If you are teaching a course that counts towards Core IMPACTS, you should include a syllabus statement about the Core area and associated [career competencies](#). [This resource](#) developed by the Center for Excellence in Teaching and Learning and Online Education at

Georgia State University includes template syllabus statements for each of the Core IMPACTS areas that you may adapt for your course.

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.

Pre- &/or Co-Requisites

Arch 3231 Environmental Systems I.

Collaboration, Group Work, and Use of Generative AI

You are allowed to work in groups on all homework and out-of-class assignments (and you may use my solutions), but any work you turn in must be written in your own hand. In-class tests and exams are to be your own work. All in-class tests and exams will be open book and notes, but I will provide an equation sheet.

Extensions, Late Assignments, & Re-Scheduled/Missed Exams

Late homework will be penalized accordingly. Make-up exams are given for illness, approved Institute activities or religious observances.