Course Syllabus, Policy and Procedures

School of Building Construction, Georgia Institute of Technology

BC 4130 – Fall 2026
Integrated Design, Construction and Development

Instructors:	Dr. Jing Wen
Class Times:	**M**W 2 -3:15 pm
Class Location:	East Architecture 309
Office Hours:	M 1-2 PM
Office Location:	John & Joyce Caddell Building 224
Main contact:	Canvas Inbox Tool

Recommended Readings:

- There are no required textbooks for this course. Material will be obtained from multiple sources.
- Alternative readings will be posted on Canvas as needed.

Course Description:

This course takes an in-depth look at the interconnections between the key stakeholders on construction projects: Owners, Designers and Contractors. From this course, you will understand the current industry challenges associated with collaboration and integration in design and construction processes. Through role-playing, simulations, and active class discussions, you will engage with seven in-depth case studies, and experience how decisions are made in practice and how different delivery methods shape project outcomes. Industry trends such as BIM (Building Information Modeling) and Lean Construction will be explored in conjunction with team integration to maximize project outcomes. By immersing yourselves in authentic scenarios, you will gain a practical, experience-based understanding of integration across stakeholder organizations and project delivery approaches.

Learning Objectives:

- SLO#10. Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process.
- Apply Lean principles and tools to improve collaboration, planning, and decision-making in construction projects.
- Critically evaluate real-world case studies to understand how stakeholders respond to challenges such as scope changes, project risk, and integration needs.
- Leverage technology and teamwork (e.g., BIM, collaborative practices, effective communication) to develop integrated approaches that optimize project outcomes.

Grading Scheme:

Criteria	Points	Weight
Case study learning reflections	**60**	**31%**
Class Attendance/Engagement	**36**	**18%**
Paper	**50**	**25.5%**
Final Project	**50**	**25.5%**
Total	**196**	**100%**

Extra credit opportunities may be offered and will be announced either during class sessions or through Canvas announcements.

Final grade is determined according to the above grading criteria. Course grading will be assigned as a letter grade according to the following scale:

A	B	C	D	F
90% - 100%	80% - 89%	70% - 79%	60% - 69%	0 - 60%

Class Policies

Class Attendance:

Class attendance is mandatory. Because this course relies heavily on in-class activities, group discussions, and multiple-perspective learning experiences, these sessions cannot be replicated outside of class time. As a result, there are no make-up opportunities for missed sessions.

Case studies are an essential part of the course and require active participation. If a student misses a case study session, the associated assignment (e.g., reflection report) cannot be completed, and a grade of zero will be recorded due to the lack of engagement and in-class experience.

Use of Generative AI

AI tools may be used in this course as a **learning aid**, similar to how you might use a search engine or brainstorm with a peer. AI can be helpful for gathering information or exploring different perspectives. However, students are responsible for critically evaluating and validating any information obtained, selecting what is most relevant, and organizing it to meet the requirements of each assignment.
Simply reproducing content generated by AI is not sufficient. Students are expected to make their own decisions, reflect on the information, and deepen their thinking beyond the initial ideas provided.
Effective use of AI means integrating insights with your personal knowledge, experiences, and analysis to produce original work that demonstrates understanding and growth.
In short, AI can be a **starting point**, but the true value comes from how you build upon it to create meaningful, personal contributions.

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. For information on Georgia Tech's Academic Honor Code, please visit http://www.policylibrary.gatech.edu/student-affairs/academic-honor-code. Any student suspected of cheating or plagiarizing 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.

Accommodation for students with disabilities:

If you are a students with disabilities that require special accommodation, please contact ADAPTS (Access Disabled Assistance Program for Tech Students) at (404) 894.2564 or http://disabilityservices.gatech.edu/, as soon as possible, to make an appointment to discuss your special needs and to obtain an accommodations letter. He or she should also schedule an appointment to discuss your learning needs with the instructor.

College of Design Faculty Statement on Diversity, Equity, and Inclusion:

"The College of Design (COD) community of faculty, staff, and students aspires to create and nurture an environment that is supportive of all backgrounds where different views and ideas are respected and encouraged. In all our pursuits, we commit to justice, diversity, equity, and inclusion with regard to race,

national origin, language, age, sexual orientation, gender, religion, and ability. Moreover, we will encourage intellectual inquiry and respectful exchange that cements our dedication to these principles."

* This syllabus is subject to change with prior notice. Please check the latest version at Canvas.