



CEE 1070 Engineering Graphics for CEE

Summer 2026

Studio: Monday / Wednesday, 3:30pm – 6:15pm, SEB 316

Instructor: Martina Balic

Office: Mason 2220

E-mail: martina.balic@ce.gatech.edu

Office Hours:

- Monday and Wednesday 2:00pm – 3:00pm – no appointment needed
- By appointment – you will need to schedule time to meet

Communication

- Canvas (www.canvas.gatech.edu)

It is your responsibility to regularly check **Canvas** for the most updated course schedule, announcements, and materials.

Use **Canvas Inbox** for the most efficient communication.

Textbook: There is no required textbook.

Course Description

Ideas, designs, and construction procedures and techniques are communicated by words, numbers, and visual images. This course will help you develop visualization skills and learn how to create engineering drawings and communicate ideas using principles of engineering graphics. These skills include the ability to work independently and in group environment, develop problem solving skills and research for information. Students will develop skills that will be able to apply in other courses and carry over to the workplace.

The course consists of two main parts (a) freehand sketching, (b) 2D CAD drafting.

Course Objectives

After successfully completing this course, students should be able to:

- visualize objects and ideas;
- use and understand engineering drawing terminology;
- interpret technical drawings; generate and interpret schematics;
- communicate ideas in a visual medium;
- write descriptions and explanations of their designs and models;
- sketch pictorials and various 2D views of objects;
- create 2D drawings using CAD software;
- establish and maintain a well-organized, detailed design portfolio;

Required Items

- Engineering Computation Pad (0.2" grid – 5 sq/in)
- 3-ring hard backed binder
- 3 two-pockets folders with or without prongs for assignments / project submission.
- Pencil (0.5 or 0.7 mm) - mechanical preferred
- Eraser
- Ruler - English units
- Additional storage for your electronic files (USB flash drive, cloud drive, etc.)

Attendance

Attendance of all studio sessions is necessary for success in this course. In-class and out-of-class activities will be based on lectures and website information; therefore, you are required to attend all studio sessions.

Attendance will be taken during all studio sessions and used as a part of your final grade.

PointSolutions will be used to take attendance. *PointSolutions* can be accessed through Canvas, or you can install the *PointSolutions App on your phone*. When signing in you have to use your GT credentials.

You can have one absence without an excuse. This course follows the Institute policies for excused absences.

<https://catalog.gatech.edu/rules/4/>

Grades

Your final grade will be based on the following assignments and it is calculated as follows:

○ In-class assignments	40%	
○ Homework assignments	20%	
○ Final Project	30%	Due July 30, 2026
○ Attendance – studio sessions	10%	

Final grades are determined using the standard grading scale:

A	–	90-100%
B	–	80-89.99%
C	–	70-79.99%
D	–	60-69.99%
F	–	0-59.99%

Assignments

No late assignments will be accepted, and no makeup will be offered without a justified and documented excuse (<https://catalog.gatech.edu/rules/4/>). Assignments are due by the deadline designated for that activity unless otherwise stipulated. The appearance of the assignments must be neat and free of smudges.

- The project will be due as stated in the Syllabus.
- In-class assignments are due at the end of the studio session.
- Homework assignments will be due as stated on each assignment.
- You are allowed to make up missed studio assignments due to an excused absence. You must inform the instructor about your absence in advance and arrange how to make up the assignment. The assignment should be turned in within a week of missed studio or as arranged with the instructor.

This policy is only for the excused absence or the one allowed unexcused absence.

Collaboration Policy

You can collaborate and work together, but all work you turn in must be yours, and completely done by you. It is not acceptable to collaborate with other students and turn in the same work for assessment.

Final Exam

There will be no Final Exam for this class.

Course Rules

- Include your name, class, and section when sending an email.
- Be respectful of your classmates and instructor and arrive on time for class.
- If you need to leave early, please inform your instructor before the class begins.
- Please silence all electronic devices such as cell phones, pagers, and beeping watches.

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.

Unauthorized use of any previous semester course materials, such as tests, quizzes, homework, projects, and any other coursework, other than that provided by the instructor, is prohibited in this course. Using these materials will be considered a direct violation of academic policy and will be dealt with according to the GT Academic Honor Code.

In addition, do not allow anyone to copy any portion of your notebook, exams, quizzes, sketches or any computer files you create for this class as a part of any assignment or required project during this course or any time in the future semesters after having taken this course.

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.

For information on Georgia Tech's Academic Honor Code, please visit

<http://www.catalog.gatech.edu/policies/honor-code/> or <http://www.catalog.gatech.edu/rules/18/>.

Accommodations for Students with Disabilities

If you are a student with learning needs that require special accommodation, contact the Office of Disability Services at (404)894-2563 or <http://disabilityservices.gatech.edu/>, 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. See [this catalog page](#) for an articulation of some basic expectation 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

Weekly Schedule Summer 2026

**Tentative and subjected to change*

Week		Topic and In-class work	HW Assignment
1	06/29	Syllabus - Course Overview Design Process; Engineering Standards, General Sketching General Sketching Pictorial drawings; Sketching Isometric Views	HW #1
	07/01	Orthographic Projection and Multiviews	
2	07/06	Sectional Views, Engineering Scales Dimensioning & Notes Introduction to AutoCAD	HW#2
	07/08	Introduction to AutoCAD: User Interface Units, Basic Coordinate Entries, Drawing Tools AutoCAD: Modifying Tools Templates	HW#3
3	07/13	Templates AutoCAD Layers Creating Multiviews and Section Views	
	07/15	Annotation in AutoCAD: Text and Dimensioning Project Assignment - Sketch	HW#4
4	07/20	Create a complete drawing with descriptive features	
	07/22	Layouts and Viewports Working with Blocks	
5	07/27	Working with Blocks Creating Schematic Drawing Working on Final Project	
	07/29	Working on Final Project Portfolio Check	
	07/30	Final Project due	