

# MEC203 – Engineering Graphics and CAD

The State University of New York, Korea

Fall 2021

**Instructor:** Jong Jin Park, B622 ([jongjin.park@sunykorea.ac.kr](mailto:jongjin.park@sunykorea.ac.kr))

**Lectures:** Thursday 2:00~3:20 & 3:30~4:50 PM, B103 (online lecture by Skype; jjpark930@gmail.com)

**Textbook** (suggested): Plantenberg K., “Engineering Graphics Essentials”, SDC Publication, 4<sup>th</sup> or 5<sup>th</sup> ed.

**Office Hours:** Thursday 12:30 ~ 2:00 PM, B622 or email

**TA:** TBA

## Grading:

Homework and quizzes	15%
Midterm I & II (15% each)	30%
Final Exam (6/17 12:30-1:50 PM)	15%
Term project	40%

Midterm Exams (80 minutes each) and Final Exam (80 minutes) are all open-book. No makeup exams and no late homework are allowed except for extenuating circumstances.

## Policies:

- Homework exercises and the corresponding solutions will be posted on the Blackboard. Original students' solutions will be held by TA and later by the department.
- The time and details about the exams will be announced in the class (or posted on the Blackboard).
- It is the responsibility of students to check the Blackboard frequently.
- Exams will be open book. Each student should have a ruler, a pencil and an eraser for drawing.
- There may be quizzes during the course.

## Course Learning Objectives:

- Demonstrate the steps of engineering drawing.
- Be able to create orthographic views.
- Be able to create sectional and auxiliary views.
- Be able to create 3D models.
- Demonstrate the ability to obtain orthographic, auxiliary and section views from a 3D model.

- Be able to add dimensions and notes to 2D and 3D models.
- Understand ASME standards for GD&T and be able to add tolerances to 2D and 3D models.
- Be able to create an assembly drawing.
- Understand engineering ethics.

**Course Schedule:** this is tentative and subject to change.

Week 1 (Sep. 2)	Introduction, Orthographic Projection
Week 2 (Sep. 9)	Orthographic Projection, Auxiliary Views, Pictorials
Week 3 (Sep. 16)	Dimensioning, CAD software
Week 4 (Sep. 23)	Dimensioning, Sectioning
Week 5 (Sep. 30)	Assembly Drawings, WDP, Intro. to Term Project
Week 6 (Oct. 7)	Midterm I (OP & dimensioning), Tolerancing
Week 7 (Oct. 14)	Tolerancing, CAD practice
Week 8 (Oct. 21)	Threads and Fasteners
Week 9 (Oct. 28)	GD&T, CAD practice
Week 10 (Nov. 4)	Proposal of Term Project, CAD practice
Week 11 (Nov. 11)	Midterm II (tolerancing and T & F), CAD practice
Week 12 (Nov. 18)	Inter. evaluation of Term Project
Week 13 (Nov. 25)	GD&T exercise
Week 14 (Dec. 2)	Final presentation of Term Project
Dec. 9, 12:30-1:50 PM	Final Exam (GD&T)

**Disability Support Services (DSS):**

If you have a physical, psychological, medical or learning disability that may impact your course work, please contact One-Stop Service Center, Academic Building A201, (82) 32-626-1117. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

**Academic Integrity Statement:**

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person’s work as your own is always wrong. Faculty are required to report any suspected instances of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website:

[http://www.stonybrook.edu/commcms/academic\\_integrity/index.html](http://www.stonybrook.edu/commcms/academic_integrity/index.html)

**Critical Incident Management Statement:**

The State University of New York, Korea expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students’ ability to learn.

**Attendance Policy of SUNY Korea**

1. All students of SUNY Korea are required to attend every class.
2. Unexcused absences will affect seriously the student's final grade in the course.

3. If a student has over 20% unexcused absence, the student's final course grade will be an 'F'.

Example)

- If the class is a 150 minute class, and is held once a week, the 4th unexcused absence of a student will lead to an F grade of the course.
  - If the class is a 75 minute class, and is held twice a week, the 7th unexcused absence of a student will lead to an F grade of the course.
  - If the class is a 50 minute class, and is held three times a week, the 10th unexcused absence of a student will lead to an F grade of the course.
  - In Intensive English Course (IEC), if a student misses the class more than 40 hours in a semester, the student will receive an F grade on the course.
4. Students should report the reason of absence to the instructor in advance, or immediately after the absence.
  5. When a student excuses his/her absence, the student must provide documentation of the reason for the absence to the instructor.
  6. The instructor of the course reserves the right to excuse absences.
  7. The course instructor may excuse the absence if the submitted documentation fulfills the conditions below.
    - Extreme emergencies (e.g. death in the family)
    - Severe medical reasons with doctor's note (Not a slight illness)
    - Very important events (e.g. national conference, official school event)
  8. At the end of semester, the course instructor should submit a copy of the attendance sheet to the Academic Affairs Office.