Engineering Graphics I
ENGR 1304-65400

Professor: Dr. Uichung Cho (Engineering Division Chair) Email: ucho@dcccd.edu
Office Phone Number: 214.860.8620 Office Number: W107A
Office Hours: MTWR 1-4 pm or by Appointments
Class Days & Time: All lecture video/slides & assignments are accessible from Blackboard on the 1st day of the class. Both lecture and assignments can be updated with email notification. See the calendar in the last page of this syllabus.
Room Number: Online.
Credit Hours: 3 Credit Hrs

Course Description: Introduction to computer-aided drafting using CAD software and sketching to generate two- and three-dimensional drawings based on the conventions of engineering graphical communication; topics include spatial relationships, multi-view projections and sectioning, dimensioning, graphical presentation of data and fundamentals of computer graphics. (2 Lec., 4 Lab.)

Course Pre-requisites: NA

Course Materials/Supplies Needed

Core Objectives:
This course is designed for students to understand key concepts for engineering design, such as parameters, features and manufacturing through simple but practical examples. The course is composed of following sessions:
(1) Session1: Learn fundamentals of engineering design, such as features and parameters. Know about critical menu items of SolidWorks and be able to setup personal working environment to draw 2D sketches with confidence. Learn how to convert 2D sketches to 3D model and vice versa.
(2) Session2: Understand mathematical descriptions of the curves and surfaces. Able to sketch 2D curve using parametric equations. Should be able to transform 2D sketches into 3D objects and modify it.
(3) Session3: Should be able to create assembly of solid parts.
(4) Session4: Learn special topics in contemporary 3D design, such as 3D scanning, 3D printing, Six Sigma and Desktop manufacturing.
Student Learning Outcomes
Students will be able to understand why Graphics is the key for the success of coming years, to design parts and assembly they want to build. After successful completion of this course, the students will be ready to take SolidWorks Certificate for Students (CSWA), which will add significant value on their resume.

Milestones
Schedule can be slightly changed. It is your responsibility to check email everyday for the date change notifications. You should let me know at least 1 week ahead if you have issue with the quiz/exam schedules. Your alternative quiz/exam date MUST be prior to the original date.

Mid-Term Exam  6/22 (Sat), 7-10PM
Last Day to Withdraw 6/25 (Please discuss your situation before you drop)
Final Exam 7/3 (Wed), 7-10PM Comprehensive
CSWA Testing (Optional) NA for INET class
Final Grading 7/8 (Mon)

No Class Days (from School Calendar)
NA

Grading
Assignments  30%
Mid Term  30%
Final Exam  40%

Late Work Policy: For late assignments, there will be 5%/day deduction until it reaches to max 40% deduction.

Attendance Policy
Students are expected to attend all classes. Students have the responsibility to attend class and to consult with the instructor when an absence occurs. If for some reason you must leave class early, you should inform the instructor prior to the start of class of your reason for leaving early.

Students must begin attendance in all classes of enrollment. No exceptions. Financial Aid will not be granted to students who have been certified as not attending, by the certification date. For this lecture course, your physical participation in class, on or before the certification date will allow you to receive credit for FA purposes. For certification dates, check with the division or FAO for further information. Students, who are not certified as beginning class, are responsible for any payments due as a result of non-certification, to include the dropping of courses.

Students whose classroom attitude negatively impact on other students learning activity will be warned once. If the student’s attitude is not corrected, he/she cannot attend this class any longer.

Academic Dishonesty:
Students that caught plagiarizing an assignment will be subject to an “F” in the course and possible expulsion from the college.

Academic honesty is expected, and integrity is valued in the Dallas County Community Colleges. Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog. Trace of exchanging CAD files will immediately lead you to F.

Institution Policies: Please visit www.mountainviewcollege.edu/syllabipolicies for a complete list of institutional policies (Withdrawal Policy; Repeating a Course; Financial Aid; Academic Dishonesty; Americans with Disabilities Act Statement; Religious Holidays; and Campus Emergency Operation Plan and Contingency Plan.).