

# SolidWorks

## CADD 28

**Textbook:** SolidWorks 2014

**By:** Sham Tickoo (CAD/CIM Technologies Publications) ISBN #978-1-936646-67-8

**Class instructor:** Mr. Daniel Valladares [dvalladares@elcamino.edu](mailto:dvalladares@elcamino.edu)

### **CADD 28 Student Learning Outcomes**

Given a fully dimensioned multi-view engineering drawing of a machined part, the student shall be able to utilize the appropriate functions within the SolidWorks software to construct a 3D solid model of the part.

**Mandatory** Class requirements by 2<sup>nd</sup> week of class are:

1. Organized three ring binder.
2. Flash drive
3. Class textbook (no exception).

Do not miss any lectures or demonstrations, they will not be repeated!!!!

**Week 1:** One week 25 points. Introduction to SolidWorks 2014

Read chapter 1 thoroughly.

Read Pg. 4-7 thru Pg. 4-12 thoroughly “Adding Geometric Relations to the Sketch”. Read before the next class!

**Week 2:** One week 25 points. Drawing Sketches For Solid Models.

Read chapter 2 thoroughly.

Tutorial #1 Pg. 2-3. Save as Asn2-TUT1xx. 2D Drawing required, see sample.

Tutorial #3 Pg. 2-20. Save as Asn2-TUT3xx. 2D Drawing required, see sample.

Exercise #2 Pg. 2-30. Save as Asn2-EX2xx. 2D Drawing required, see sample.

**Week 3:** One week 50 points. Editing and Modifying Sketches.

Read chapter 3 thoroughly.

Tutorial #1 Pg. 3-2, Save as Asn3-TUT1xx. 2D Drawing required, see sample.

Exercise #2 Pg. 3-26, Save as Asn3-EX2xx. 2D Drawing required, see sample.

**Week 4:** One week 50 points. Adding Relations & Dimensions to Sketches.

Read chapter 4 thoroughly.

Tutorial #1 Pg 4-2. Save as Asn4-TUT1xx. 2D Drawing required, see sample.

**Week 5:** One week 75 points. Advance Dim's Techniques & Base Features Options.

Read chapter 5 thoroughly.

Tutorial #1 Pg 5-2, Save as Asn5-TUT1xx. 2D Drawing required, see sample.

**Week 6:** One week 100 points. Creating References Geometries.

Read chapter 6 thoroughly.

Exercise #3 Pg. 6-35. Save as Asn6-EX3xx. 2D Drawing required, see sample.

**Week 7:** One week 125 points. Advanced Modeling tools.

Read chapter 7 thoroughly.

Exercise #2 Pg. 7-34. Save as Asn7-EX2xx. 2D Drawing required, see sample.

**Week 8:** Midterm (date TBD) 225 points. Time 6:30 to 9:00.

Midterm with instructions will be handed out the night of testing. There are no make ups or rescheduling of the Midterm.

Read chapter 8 thoroughly.

# SolidWorks (CADD 28)

**Week 9 thru 12: 3 weeks 175 points. Assembly Modeling.**

**Read chapter 9 thoroughly.**

**Tutorial #1 Pg. 9-4. Save as Asn9-TUT1ASSYxx. 2D drawings required, see sample.**

**Week 13 thru 15: 3 weeks 200 points. Working with Drawings Views.**

**Tutorial #2 Pg. 9-21. Save as Asn9-TUT2ASSYxx. 2D drawings required, see sample.**

**Exercise #2 Pg. 9-46. Save as Asn9-EX2ASSYxx. 2D drawings required, see sample.**

**Read chapter 10 thoroughly. Note that chapter 10 covers 2D Drawing views.**

**Week 16: Final (date TBD) 300 points. Time 6:30pm to 9:00pm**

**Final with instructions will be handed out the night of testing.**

**There are no make ups or rescheduling of the final**

## **CADD 28, Section #7326, 2 units,**

Meets TH 6:00 to 10:10 pm in room #204 Industries and Technologies

Software is SolidWorks 2014/2015

### **Grading:**

Class participation.

Attendance in class, following handout instructions, an organized three ring binder by the 2nd week of class =150 points or 10% of your grade.

### **Grade Points.**

A=1400 to 1500 points, B=1300 to 1399 points, C=750 to 1299 points, D=375 to 749 points, F=less than 374 points.

### **Class Policies:**

Student attendance policy: Students are expected to attend classes regularly. Students who absences exceed 10% of the scheduled class meeting time may be dropped by the instructor.

*Academic Honesty:* Per Honesty ECC policy and process (BP5500 Section I and AP5520 Section A),:

*When an instructor determines that there is evidence of dishonesty in any academic work (including, but not limited to cheating, plagiarism, or theft of exam material), disciplinary action appropriate to the misconduct as defined in BP 5500 may be taken. A failing grade on an assignment in which academic dishonesty has occurred and suspension from class are among the disciplinary actions for academic dishonesty (AP 5520). Students with any questions about the Academic Honesty or discipline policies are encouraged to speak with their instructor in advance.*

- Instructor will subtract points for incomplete or incorrect assignments.
- Assignments are due one week after assignment allotted time.
- All assignments are to be completed one week prior to the end of the semester.
- Late assignments are subject to 10% reduction in points.

### **Disability Accommodations**

1. **"If you have a documented disability and wish to discuss academic accommodations, please contact me as soon as possible."**
2. **"Students with a disability who believe they may need accommodations in this class are encouraged to contact the Special Resource Center on campus as soon as possible to better ensure such accommodations are implemented in a timely fashion. Please contact me privately to discuss your specific needs."**