

DE ANZA COLLEGE
BUSINESS/COMPUTER SYSTEMS DIVISION
DESIGN & MANUFACTURING TECHNOLOGIES DEPT
GREEN SHEET FOR **SPRING 2016**

Course: **DMT 060A-01,64Z**
Call No. **44023, 44025**
Days: **TTh, TBA**
Time: **8:30am – 12:20pm, TBA**

SolidWorks (Beginning)

Rm **E35**

Instructor: Paul Klingman
Ofc Hrs: **MTWTh 4:00p-4:50p**
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Text and Reference: **Planchard & Planchard, Engineering Design with SolidWorks 2015, SDC, 2015**
(ISBN: 978-1-58503-922-7)

Overview: ~8-hour lecture/lab per week.

Fundamentals of computer-aided design/drafting using SolidWorks CAD software.
Application of operating system, software, hardware, and peripherals in creating manufacturing models. The student will create and modify a number of 3-D parametric models using SolidWorks.
Database and file management as related to CAE/CAD/CAM applications will also be covered.

Standard Operating Procedures

Attendance: Attendance at all classes is expected. While the student's attendance record is not part of his/her grade, the workload is designed to make **full** use of the hours allocated for this class. That is to say, *if a student doesn't put 8 hours of work per week on the subject matter, (s)he cannot expect to finish the assigned work by the end of the quarter.* Attendance will be noted once every session. It is the student's responsibility to insure that his/her presence at class is recorded. Students should be aware of significant Academic Calendar dates (**16apr16, 17apr16, 29apr16, 27may16**). Note: <http://deanza.edu/calendar/springdates.html>

Important! Classes can have unique deadlines, and eligibility for refunds and W-grades are within very short timelines. Please check with your Instructor or Admissions for your class drop dates. Note this link: <http://deanza.edu/registration/add-drop.html>

Homework: The "only" homework required for this class is to complete the reading in the text prior to starting work on the computer. The student should do this reading **outside of class** in order to make the best use of lab time. Students should be able to complete all assigned lessons and projects during lab time, provided preparatory reading is done outside of class. Any other homework assigned will not require the use of the lab workstations. Something unique to the DMT CAD classes is that e-blasting a class with so-called 'spam' messages is a necessary evil (unintended consequence) we have to do in order to give the student a chance at keeping up with the latest developments which will affect your work. I try as an instructor to be judicious here. I hate spam as much as the next guy, so I try to keep these blasts to a minimum. Having said that, I consider what I **do** send to be 'Need-To-Know' . . . something the student 'Needs to Know'. Therefore, you are also responsible for content issued in any official DMT CAD message, specifically e-mails sent via the course's CATALYST News Forum. I will often refer a student to the course News Forum for information I know to be posted there. The CATALYST News Forum is available to any student who has access to this course's CATALYST Interface Shell.

Distance-Learners: This section is devoted to issues specific to anyone who intends on viewing lectures & doing Lab Work (any work requiring the SolidWorks program for completion of task) somewhere other than the CDI CAD Lab. With respect to the issues brought up in the 'Attendance' section of this syllabus, the student is required to view the on-line lectures in the same way that an On-Campus Learner is required to attend live lectures in the CAD Lab. The student is responsible for any content covered in a lecture, whether live or on-line. Maintenance of a current version of the SolidWorks software is the Distance Learner's complete & total responsibility. **DMT CAD has resources available which make this task possible, but the final responsibility for access to all hardware/software needed to successfully complete this course rests with the Student Distance Learner.**

Student Learning Outcome: The student's grade for this course is based upon the submittal of the following: (1) Assignments as prescribed in CATALYST'S Course Calendar & Assignment List; and (2) a combination of one "mid-term project" and one "final project", details to be discussed & further documented later as the exams draw closer. I will accept early submittals of Projects. Each individual lesson/project will be graded according to the following:

1. Accuracy of Model: Is model proportionally similar to that shown in text? Are dimensions accurate?
2. Clarity of Print: No unnecessary datum planes, axes, or points shown. Hidden lines permitted.
3. Completeness of Model: Are all necessary features shown on model? Any "extra" features?

Each assignment is to be checked into its CATALYST Assignment Submittal In-Box. After initial grading, I will either approve the line item or give you a list of items in the model to correct. **RE-SUBMITTALS OF PROJECT WORK ARE ALLOWED & ENCOURAGED!!** The sooner and more often you submit your work, the better chance you will have at getting full credit. Quite often, the student's first submitted try at a project is graded down from the full credit score of '4'. In this case, the **only** chance a student has at getting a better grade is to re-submit that work with the Instructor's Feedback as a guide to a better score.

Use of files from the Textbook's CD: In short, NOT ALLOWED! For your assignments: Besides the documents **you** create from scratch, **I only allow the use of SolidWorks document files (Parts, Assemblies, Drawings, etc.) which come directly from CATALYST, DeAnza College's Course Management System. As a rule of thumb, whenever the textbook says "copy from the CD", read "look in the Course Work Starter Pack"!!** If the textbook calls for a particular part or assembly, which you think is missing from the Course Work Starter Pack, send me an e-mail through CATALYST, and I will look into the matter. **If I can find the file** I want you to use, I will notify you of the name and location of that file. **If I cannot find the file** I want you to use, I will post the needed file(s) on CATALYST and notify the entire class.

An example for the Beginning SolidWorks class would be the following: In Chapter Two, you will be using the assembly file named **AirCylinder_??????**. The textbook will only refer to a file named **"AirCylinder"**. You are expected to make the "logical jump" to the new name of the component you will use instead.

Also, remember that EVERY file you create must have the name as called out in the textbook, with the addition of your 4-digit ID tacked on to the end of that file name. Once you create the PLATE part, you would name this part file to read **Plate_????**, where "?????" is replaced by the last four digits of **your** DeAnza College 8-digit Student ID. In general, the names of the files I've supplied you (Course Work Starter Pack) should be left alone.

Instructor FeedBack: With the added number of students in this section, the normal turn-around time of four class days (two calendar weeks) will need to be tied to the **first** of the two major due dates given to each assignment. When you look at the CATALYST calendar for this class, you will see the actual assignments on their respective **Original Due Dates**.

Work Schedule: There are **12** weeks scheduled for **Spring Quarter** (including Finals Week), and the standard class material covers 6 chapters. Students should expect to complete one chapter every two weeks in order to keep pace with this schedule. Each line item will be graded pass/fail; your grade will be an aggregate of all project scores, divided by the total number of points possible. In addition, I may assign questions and/or exercises from each chapter. I am leaving some flexibility in the total amount of work assigned in order to allow for system down time.

Course Exam Schedule: There is **1** Mid-Term and **1** Final Exam scheduled for **Spring Quarter**. The Mid-Term Exam Period for this section begins at **8:30am, Tuesday, 24May16**. The Final Exam Period for this section begins at **8:30am, Tuesday, 21Jun16**. **On-Campus Attendance is mandatory, unless PRIOR ARRANGEMENTS are made with the Instructor.** Plan to be on campus for about 4+ hours total. Time Windows are 3.5 hours for each exam. **During Exam Periods, there is NO Open Lab. This includes the Mid-Term Exam. Refer to CATALYST's Calendar, located at the top of the left-most column in the class shell. The CAD Lab Facility will NOT be available for any purpose other than completing an Exam, whether Mid-Term or Final.** Students should plan **now** to be present during those times & dates called out in the Course Calendar. That is to say, the time for the exam is firm, and only negotiable to a limited degree **during the first two weeks** of **Spring Quarter**. Other than those exceptions granted during the first two weeks of class, **there will be no make-up exam**. There is a calculation that I make if you miss one or the other of these exams. Of course, if you miss BOTH exams, the calculation is very easy, since the only two variables in this equation are the two exam scores.

Basis for Grade:	A: 90% - 100%	Project Check-Off Sheet:	75%
	B: 80% - 89%	Mid-Term Project:	10%
	C: 70% - 79%	Final Project:	15%
	D: 60% - 69%		
	F: < 60%		