

San José State University
School of Engineering/Mechanical Engineering

**ME 165, Computer Aided Design in Mechanical Engineering, Section 01,
Spring 2020**

Course and Contact Information

Instructor:	Ed Cydzik
Office Location:	Part-time faculty office ó E348
Telephone:	650.954.7278
Email:	edward.cydzik@sjsu.edu
Office Hours – by appointment:	MW 6:30 PM ó 7:15 PM E348 by appointment, Chat via Canvas, email
Class Days/Time:	Tu., Th. 7:30 PM ó 8:45 PM
Classroom:	CL 204 (1 st lecture), E213 for the balance of the semester
Prerequisites:	ME 020, CE 112, ME 130 or MATH 129A ó please provide an unofficial transcript with the prerequisites highlighted by the date noted in CANVAS

Course Format:

This will be primarily an in-person class. The Canvas Learning Management System (LMS) will be used to augment class material dissemination. All materials handed out or posted in Canvas LMS will be restricted for students use for class purposes.

Course Description

Theory and application of Solid Modeling to create solid models (SolidWorks®) and associated engineering drawings and assemblies, and to perform finite element analyses of components.

Prerequisites: ME020, CE112, and either ME130 or MATH129A, with a grade of C- or better in each course.

Allowed Declared Majors: Aerospace Engineering, Mechanical Engineering.

Students will be expected to work individually on homework and other assignments. Some assignments may integrate a number of other technical skills such as additive manufacturing.

Upon successful comple

Course Requirements:

The expectation for the course is that students will spend at least 3 hours per unit per week for a total of 9 hours per week on this 3-unit course.

Final Examination or Evaluation:

ME 165 / Design for Manufacturability, Spring 2020, Course Schedule

The Course Schedule may change changes will be announced during lecture time

Course Schedule

Week	Date	Topics, Readings, Assignments, Deadlines
1		Introduction to ME165, review the Syllabus, get to know each other.
	1/23/20	Download and install SolidWorks 2019 Educational Version to your laptop. HW 1 - Review Software Tutorials: Introduction, Lessons 1, 2, and 3.
2	1/28/20	HW 2 Level I Text ó Chapter 2: Part Modeling. Prerequisites: ME 020, CE 112, ME 130 or MATH 129A – please provide an unofficial transcript with the prerequisites
	1/30/20	
3	2/04/20	HW 3 Level I Text ó Chapter 3: Special Features; Sweep, Loft and Wrap.
	2/06/20	
4	2/11/20	HW 4 Level I Text ó Chapter 4: Detailed Drawings.
	2/13/20	
5	2/18/20	HW 5 Level I Text ó Chapter 5: Assembly Modeling.
	2/20/20	
6	2/25/20	HW 6 Level I Text ó Chapter 6: Assembly and Design Table Drawings.
	2/27/20	
7	3/03/20	HW7 ó CSWA Review Text ó Chapter 2: CSWA Introduction and Drafting Competencies.

Week	Date	Topics, Readings, Assignments, Deadlines
12	4/14/20	HW13 - SW Simulation 4
	4/16/20	HW13 - SW Simulation 4
13	4/21/20	HW14 - SW Simulation 5 ó CSWA Review Text ó Chapter 7: Certified SolidWorks Simulation Associate -