

Course Syllabus - spring 2011
TECH 315 – Project Design & Document Control
Department of Technology

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Office Hours: After class or by appointment
Course Times: Tuesday/Thursday 7:20 – 9:50pm
Location: **B110**, Engineering and Technology building

Course Description

Prerequisites: TECH 310 and 313. Concepts, applications and procedures necessary to control, protect and access graphical data used in the management of design and manufacturing documentation.

Many small to medium sized businesses that work with large companies are using collaborative product development practices allowing them to integrate, manage and reuse their product knowledge and processes to increase their competitiveness. This course will provide students experiences on how the management of a project can be accomplished using today's latest technologies. This will include the latest information on web portals, product lifecycle management (PLM) and product data management (PDM) systems used to manage small to large projects. Students will work in teams to set up a basic design document system and learn to manage the system. Case studies of local companies and guest speakers will be used. Industrial Technologists need to understand the project design and document control processes used to bring products to market quicker and more economically. *(Required concentration course in Computer Integrated Design).*

Student Learning Outcomes

Upon completion of this course, students will be able to:

1. Understand the role of project design software systems used in the engineering design process for small, medium and large enterprises
2. Understand how the various stages of a design project can be controlled electronically
3. Conduct case study research and prepare a report to justify selection of project design software for a small to medium-sized company

Course Requirements

Required Text

Planchard, David C. and Marie P. Planchard, *Assembly Modeling with SolidWorks 2010*, SDC Publications. ISBN# 978-1-58503-564-9.

Course website

This course will incorporate the use of the Moodle learning management system (LMS). Agendas, timelines, assignment uploads will be posted on the TECH 315 Moodle site.

Important Dates to Remember

March 28th	spring quarter; classes begin
March 31st	Cesar Chavez Day; campus closed
May 30th	Memorial Day; campus close
June 6th-11th	Final Examinations
June 12th – 19th	Student recess

Grading

Students are required to attend all classes. The final grade for the course will reflect the degree of success with assignments, quizzes on the lecture material, and assigned exercises and projects and will be calculated on the following basis.

- Class participation and attendance – 10%
- Quizzes – 20%
- Assembly Modeling Exercises – 30%
- PDM Client Interface Exercises – 20%
- Case Study Report – 20%

Final grades will be issued using the following scale:

A	=	93-100
A-	=	90-92
B+	=	87-89
B	=	83-86
B-	=	80-82
C+	=	77-79
C	=	73-76
C-	=	70-72
D+	=	67-69
D	=	63-66
D-	=	60-62
F	=	0-59

*** Individual/Group Work**

Courses may include various combinations of individual and group work. Students must demonstrate individual aptitude, and achieve a passing grade for individual work, in order to pass the course. It is important where team work is undertaken that students be able to clearly demonstrate that individual contribution has been made.

*** Late Submission of Deliverables**

All deliverables submitted late will accrue a 10% per day or part of day deduction from the determined grade, to a maximum of 3 days, from the original deadline time and date. **Failure to submit within 3 days, without approval from the instructor, will result in a grade of F. A** comprehensive medical certificate or other documentation to substantiate the absence must be submitted as soon as possible after the student's return. Such documentation must state the date of illness onset, the expected date of recover, and the extent to which the student is incapacitated.

*** Participation and Professionalism**

Active participation and professional conduct are particularly important in courses and will be evaluated. At the same time, when the student's work is reviewed at the end of the course, an evaluation will be made based on one or more of the following: in class discussion; consultation with instructor; and work ethic. However, none of these evaluations will be used to raise an overall failing grade, to a passing one, based on the quality of the work.

Student Considerations and Responsibilities

*** Student Responsibility (lecture/lab courses)**

The student is responsible for knowing the content of this course outline, the schedule of classes, assignments, and quizzes; and material covered during any absence from scheduled classes.

*** Academic Honesty / Cheating and Plagiarism**

The regulations of the university require that we bring to your attention regulations on *Academic Honesty*, descriptions of which can be found in the 2007-2009 *California State University Undergraduate Catalog* on pages 101 and 760. At the same time it seems that students do not always understand the meaning of cheating and plagiarism and how to avoid it. A website outlining Academic Honesty related to cheating and plagiarism - <http://www.calstatela.edu/usu/csi/StudentRights15b.html>