Prerequisite: Etech 24

THIS IS IMPORTANT:
You must keep copies of all of your work until you are satisfied with your final grade. If I misrecord an assignment you will be able to give it to me again.

I encourage you to work together and to help each other with learning AutoCAD. What you cannot do is share AutoCAD files and especially turn them in as your own homework. If I discover that homework files have been shared, both parties receive no credit for the assignment and an automatic grade point reduction on your final grade. Please consult the Cabrillo College Student Handbook and especially Cabrillo College’s policy on sharing homework.

Purpose:
ETECH 41 presents a second level AutoCAD and first level mechanical drafting course. Includes an introduction to the computer aided design of mechanical drawings, detailing the fabrication of mechanical parts, technical sketching, multi-view orthographics, section views, auxiliary views, 3D modeling, dimensioning, and an introduction to computer aided manufacturing.

Learning Objectives:
1. Efficiently construct accurate drawings that display skill in the use of such commands as ADC, VP, and UCS2.
3. Apply concepts of design to the principles of 3D modeling while displaying skill in the use of parametrics and FEA.


Other Suggested Textbooks: Since the above required book is soley a tutorial-type text, I suggest purchasing an AutoCAD reference-type text. In addition, an AutoCAD quick reference guide is also very handy for quickly locating command information. I also use AutCAD’s help (F1 key) extensively. It is your choice.

Required Supplies: A USB flash drive that can hold at least 5 mb.

Attendance: I will take attendance at the end of each class. I will excuse your attendance if you notify me by email in advance of the class. I do not need to know the reason. Attendance is important but I also understand that there are times when your family and employer make other demands. Before you miss more than three class periods, we should talk if there are reasons they should be excused.

All late drawings are discounted 20% if you do not have an excused absence. Therefore it is to your advantage to excuse yourself from class if you are unable to attend.

Lectures: Prior to class, you are expected to have completed the reference text reading that corresponds to the lecture topic. Furthermore, you must be prepared to participate in the lecture by asking/answering questions. Lectures will be approximately two hours in duration, and will promptly begin at 6:00 pm.

Lab: While attending lecture is important, nothing surpasses spending time using the AutoCAD system. I estimate a four hour/week time commitment beyond the two hour lecture period.

TBA Lab Hours Log Sheet (Arranged Hours): This course requires at least 2 hours and 5 minutes per week of arranged hours to be fulfilled in a Cabrillo lab (Rooms 715, 801, 810, 834, 1400 or Watsonville Computer Lab). It is the students’ responsibility to record their attendance and they should do so by signing in each time they attend the lab. Arranged hours are class time and all students are expected to meet this number of hours per week to fulfill the requirements of this course. TBA hours will be checked periodically.
TBA Lab Hours log sheet will be due the last day of class on Week 15 (the week before Final Week). If the log sheet is not turned in that night it is considered late and 5 points will be deducted from your final grade. If I do not have your log sheet when I submit my grades you will get a No Pass (NP) for the semester as your final grade.

Assignments: Drawing assignments, meant to provide you with practice on the topics discussed, are due on the dates indicated for each homework assignment. While your classmates may answer questions and provide you with guidance, you are expected to complete your own work. All late drawings are discounted 20% if you do not have an excused absence. The most you can lose for a late homework assignment is 20%, so if you get behind, work on the next homework assignment and complete the late homework assignment when you have time.

Submitting Your Assignments: All AutoCAD homework files must be placed in the Polubinsky folder/Etech-41/turnin, which can be accessed via the “start menu/programs/faculty folders.” All homework must be saved on your own media and should be deleted only after you have received a final grade for the course. Lastly, all drawings must be named using the 7 digits of your student ID number followed by a dash and the drawing name. Example; 4201668-HW3 (Student ID Home Work Week 3).

Evaluation: I will correct your assignments each week and post the score for the assignments in my Faculty Folder Polubinsky folder/Etech-41. Grading is based on the following:

<table>
<thead>
<tr>
<th>Points</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90 to 100</td>
<td>A</td>
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<tr>
<td>80 to 89</td>
<td>B</td>
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<tr>
<td>70 to 79</td>
<td>C</td>
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<tr>
<td>60 to 0</td>
<td>No Pass</td>
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84 pts. - drawing assignment (12 week sessions @ 7.0 points maximum per week)
16 pts. - final project

Instructor Information: ph: 479-5705, fax: 479-6507, email: grpolubi@cabrillo.edu, my web page: www.cabrillo.edu/~gpolubinsky, department web page: cabrillo.info

Miscellaneous: You are required to adhere to all of the guidelines stated in the Cabrillo College Student Handbook (available at student services). All types of disabilities must be reported to me on your first day of class attendance (our conversation will be kept confidential).

Important Dates:
2/6      Last day to drop a class with a refund
2/6      Last day to add a Spring semester class
3/28     Spring Break
4/23     Deadline to withdraw from full-term course
5/10     Last class meeting for the semester
5/17     Final project and all late homework due

Class Calendar

<table>
<thead>
<tr>
<th>WEEK</th>
<th>DATE</th>
<th>HOMEWORK</th>
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<tbody>
<tr>
<td>WEEK 1</td>
<td>1/26</td>
<td>Read lesson-related material in your textbook.</td>
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<td>WEEK 2</td>
<td>2/2</td>
<td>Exercise: 3A-D and 4A-F, Turn in 3D &amp; 4D.</td>
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<tr>
<td>WEEK 3</td>
<td>2/9</td>
<td>Exercise: 5A-G, Turn in 5E.</td>
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</table>
WEEK 4  2/16
Lesson 6
HOMEWORK
Exercise: Turn in 6B or 6C, your choice.

WEEK 5  2/23
Lesson 7
HOMEWORK
Exercise: Turn in 7A or 7B, your choice.

WEEK 6  3/1
Lesson 8
HOMEWORK
Exercise: Turn in 8C

WEEK 7  3/8
Lesson 9
HOMEWORK
Exercise: Turn in 9A and 9B

WEEK 8  3/15
Lesson 10 and 11
HOMEWORK
Exercise: Turn in 11B at three different scales using whatever you did in Lesson 6 (Week 4).

WEEK 9  3/22
Lesson 13 (Skip Lesson 12 and 14)
HOMEWORK
Exercise: Practice on 13B. Turn in only if you want extra credit (5 points possible).

SPRING BREAK  3/28-4/2

WEEK 10  4/5
Lesson 15 and 16
HOMEWORK
Exercise: Turn in 16D.

WEEK 11  4/12
Lesson 17 and 18
HOMEWORK
Exercise: Turn in 17C.

WEEK 12  4/19
Lesson 19 and 20
HOMEWORK
Exercise: Turn in 19B.

WEEK 13  4/26
Lesson 21
HOMEWORK
Exercise: Complete 21B, then set up a layout tab, show 3 windows with each revolution in one of the three windows and turn in.

WEEK 14  5/3
Lesson 22
HOMEWORK
Exercise: Turn in 22C

WEEK 15  5/10
Dynamic block handout, wrap up
HOMEWORK
Final Project.

WEEK 16  5/17
Final Project and late homework is due by 6PM

I’ll be in the CTC, Building 1400, to pick up any remaining assignments and the Final Project at 6PM

SEE TBA (TO-BE-ARRANGED) LAB HOURS WORKSHEET ON THE NEXT PAGE
**Course:** ETECH 41  
**Section #:** 91719  
As stated in the Cabrillo College Schedule of Classes, students in this course are expected to spend 2 hours per week working on class projects in a Cabrillo College Lab. Please document your hours below. Your dates & times should not overlap with the day/time that our class meets (6pm-10:20pm). If you are out sick for an entire week then please write “out sick.” Please do not use ditto marks. A hardcopy will be due at our final class meeting. Thank you.

<table>
<thead>
<tr>
<th>Week: M-Sun</th>
<th>Date:</th>
<th>Start time:</th>
<th>End time:</th>
<th>Duration (hours):</th>
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<td>Week 1 (1/25 – 31)</td>
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<td>Week 2 (2/1 - 7)</td>
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<td>Week 3 (2/8 - 14)</td>
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<td>Week 4 (2/15 - 21)</td>
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<td>Week 5 (2/22 – 28)</td>
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<td>Week 6 (2/29 – 3/6)</td>
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<td>Week 9 (3/21 - 27)</td>
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<td>Week 11 (4/11 - 17)</td>
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<td>Week 12 (4/18 - 24)</td>
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<td>Week 13 (4/25 – 5/1)</td>
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<td>Week 14 (5/2 - 8)</td>
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<td>Week 15 (5/9 - 15)</td>
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<td>Finals week (5/16-21)</td>
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