

SANTA ANA COLLEGE, Engineering 184 - AutoCAD II, Computer Aided Drafting 3 units credit. Section 28069, 02/08/10 - 06/02/10

Spring 2010, Class Schedule: weekly suggested schedule **2 hours lecture, 4 hours lab, and time on your own to do lab work, reading, assignments, studying, drawings, quizzes. Total 9 hours per week of 16 week semester.** Passing grade on IN PERSON Final exam required to pass this class. Final exam date/time TBA.

Instructor: Susan Sherod

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Office hours: See course Bb website Staff link. No office hours on holidays when campus is closed.

Textbook: AutoCAD 2010: A Problem Solving Approach, by Sham Tickoo, publisher, Delmar, Cengage Learning

This syllabus may be adjusted over the duration of the course. Review the Course website a few times per week for updates. Note: Assume proportional sizes for problems that do not provide dimensions.

COMPLETE ASSIGNED READING, LECTURE AND LAB MATERIALS BEFORE ATTEMPTING PROBLEMS, TEST DRAWINGS, OR QUIZZES. SUBMIT ASSIGNMENTS IN ASSIGNMENT LINKS WHEN DUE. NAME FILES AS DIRECTED FOR TESTS, AND FOR HOMEWORK USE THIS FORMAT WITH **page number first: pXXX_FigXXX_186_wkX_last_first.XXX. Student name and Filename must BOTH appear in the digital versions of the drawing. **ASSIGNMENTS ARE GRADED FOR PROGRESS APPROXIMATELY EVERY FOUR WEEKS.** ALWAYS BACKUP ALL YOUR WORK TO A SEPARATE DRIVE. CORRECTIONS RETURNED TO YOU AND ADDITIONAL COMPLETED WORK MAY BE RESUBMITTED FOR RECHECK AT MIDTERM AND FINAL REVIEWS. QUIZZES WILL BE POSTED BY 12:00 A.M. MONDAY IN WEEKS GIVEN. **SUBMIT THE CURRENT QUIZ EACH WEEK BEFORE 12:00 A.M OF THE FOLLOWING MONDAY. THERE ARE NO MAKE-UP QUIZZES. ALL STUDENTS MUST LOGIN TO BLACKBOARD FOR COURSE WEB MATERIALS EACH WEEK. NOTE: Bb uses your WebAdvisor ID and password.****

Week 1, Week 2 - Feb. 8 & 15 **note: campus closed Feb. 15 Holiday, Bb available 24/7. Unit I.**

ACAD Review and Advanced Dimensioning

Lecture 1 - Orientation to using Blackboard, File compression/digital dropbox, Review of AutoCAD Basics, AutoCAD Review focused toward Advanced Dimensioning

Lecture 2 - Review use of Templates and Page Setup, Working with Layouts, Creating and using VPorts in Model and Paper Space, Editing VPorts, Layers for VPorts, Linetype scaling, Inserting Layouts

See Assignments for Reading and Problems every week! **Warning - Students who do not complete Quiz 1 on time will be dropped.**

QUIZ 1, Test 1 - drawing assignment must be uploaded to assignments in .zip file

Week 3, 4 - Feb. 22, Mar. 1 - Unit II. Model Space Viewports, Paper Space Viewports, and Layouts

Lecture 3 - Plotting Drawings - Setup VPorts to Scale, Printing to scale, Plotter Configuration, Plotting Sheet Sets, Publish option

Lecture 4 - Hatch, Hatch Editing, Alignment of Hatches, Associative Hatch, Hatch Boundaries and "Islands"

See Assignments for Reading and Problems every week!

QUIZ 2, Test 2 - drawing assignment must be uploaded to assignments in .zip file

Week 5, 6 - Mar 8, 15 - Unit III. Working with Blocks

Lecture 5 - **Working with Blocks** - Block, Insert, Minsert, WBlock, DesignCenter, Tool Palette Blocks,

Purge Unused Blocks

Lecture 6 - **Dynamic Blocks**, Rename, Redefine Blocks, Refedit, Explode, Xplode,

See Bb Assignments for Reading and Problems every week!

QUIZ 3, Test 3 - drawing assignment must be uploaded to assignments in .zip file

Week 7, 8 - Mar. 22, 29 - Unit IV. Attributes & Exam 1

Lecture 7 - **Block Attributes** Attribute Definitions, Extracting Attributes, ANSI Templates for extraction

QUIZ 4, Test 4 - drawing assignment must be uploaded to assignments in .zip file

Lecture 8 - Midterm Review/MIDTERM EXAM online Mar. 29 only - note: Mar. 31, campus closed holiday, Bb available 24/7

See Bb Assignments for Reading and Problems every week!

SPRING BREAK! NO CLASSES & CAMPUS CLOSED FROM APRIL 5 THROUGH APRIL 11

Week 9, 10 - Apr. 12, 19 - Unit V. External References - Files and Images

Lecture 9 - **Understanding External References** Xref Manager, Attach, Unload, Reload, Detach, Bind and it's options, Xclip, Refedit

Lecture 10 - **Working with Advanced Drawing Options** - Multilines, Express Tools

See Assignments for Reading and Problems every week!

QUIZ 5, Test 5 - drawing assignment must be uploaded to assignments in .zip file

Week 11, 12 - Apr. 26, May 3 - Unit VI. Advanced Options

Lecture 11 - **Grouping and Advanced Editing of Sketched Objects**

Lecture 12 - **Editing Polylines, using Undo Operations, Options for Selection Modes**

See Assignments for Reading and Problems every week!

QUIZ 6, Test 6 - drawing assignment must be uploaded to assignments in .zip file

Week 13, 14 - May 10, 17 - Unit VII.

Unit IV. Advanced CAD Drawing, Technical Drawing with AutoCAD

Lecture 13 - Multiview orthographics, sections, auxiliary views, Drawing Exchange & Export Options

Lecture 14 - Isometric Drawings

See Assignments for Reading and Problems every week!

QUIZ 7, Test 7 - drawing assignment must be uploaded to assignments in .zip file

Week 15 - May 24 - Unit VIII. The User Coordinate System, Introduction to 3D

Lecture 15- Introductory information for 3 Dimensional CAD drawings

QUIZ 8

Unit VI. Semester Review

Week 16 - May 31 campus closed Holiday. Bb will be available 24/7 as usual.

Lecture 16 - Test 8 and Final Review/Final Exam - in person date/time TBA. Photo ID required for entry. Final Exams are password protected. Passwords are given in person at the exam. You are advised to arrive a few minutes early.

It is the student's responsibility to send drawings via the correct Assignment Links for all work for the class. There are extra links to send in resubmitted or additional work at middle of term and end of term, plus two supplemental Assignment links, as additional locations where you can upload late work.

Review and complete ALL weeks' drawings for submission to assignments by 06-04-10, midnight.

If you plan to become knowledgeable about Engineering you must commit yourself to read, study, and practice in a highly productive manner. You must be involved in the learning process 100%. Important aspects of your involvement include (1) Attendance & Participation, (2) Utilization of textbook and internet resources.

Best wishes to each of you for a successful semester in Engineering 184!

ENGINEERING 184, COURSE INFORMATION

CLASS DESCRIPTION: Intermediate course in the use of AutoCAD software. Topics include layouts, vports, sheet sets, blocks, hatches, attributes, inquiry, and 3-D introduction. Recommended preparation: Engineering 183. Advisory reading level: 3.

TEXT:

THE TEXT MUST BE USED FOR EVERY CLASS whether in person or a "VIRTUAL" SESSION. It is the main focus of instruction and practice.

METHOD OF PRESENTATION:

Lecture, Demonstration, Internet Methods, Email, Individual Instruction.

ASSESSMENTS::

Scheduled per the week noted in the class syllabus. Will be available beginning Monday at 12 a.m. of the week and will time off the following Monday at 12 a.m. **QUIZZES CANNOT BE MADE-UP IF MISSED!** Quizzes will be taken online using the Blackboard software. In order to take the quiz, you will need to login to Blackboard using your id and password. The online quiz will be open book and will be available on a timer, typically for 5 minutes **from the time you begin**. Be sure to do required reading and try lab work **before** you attempt a quiz so that you will be prepared. You may take a posted quiz at any computer with internet access and a java enabled current version of web browser during the week it is posted. However, be sure to use the practice quiz to be sure you can take quizzes from your remote computer if you do not use a computer at the SAC campus to take your quizzes. Tests will become available via an Assignment link on Monday at 12 a.m. in weeks they are given, and will time off the following Monday. **TESTS CANNOT BE MADE-UP IF MISSED!** Be sure to submit Drawing Test problems to their appropriate Assignment link.

ASSIGNMENT REVIEW AND EVALUATION:

During the course there will be weekly evaluation of your progress as well as the midterm and final review/evaluation. The Final Exam during the last week of class, will be in person. Failure to pass the Final Exam will result in failure for this class, so it is very important to be ready for it. As part of the Final Exam you may be asked to display assignments and demonstrate commands and features as requested by the instructor, and to answer specific questions. Unless prior arrangements have been made, no work will be accepted late. **If accepted, late work may be assessed a 20% grade reduction penalty.** Students may create assignments at any computer that has AutoCAD and can save to a file

format compatible with AutoCAD 2010.

GRADING FACTORS/GRADING SCALE.

Quizzes =30%, Drawing Test Assignments = 40%, Midterm Review 5%, Exam I = 10%, Exam II = 10%. Final Review = 5%. **A passing grade on the IN PERSON Final Exam is required to pass this course. Photo ID is required for the Final Exam.**

A 100-90%

B 89-80%

C 79-70%

D 69-60%

F 0-59%

Be sure to check Blackboard to review your grades. Extra credit opportunities may be offered during the semester. Regular assignments must be done before extra credit points will be given.

CHEATING/COPYING.

While cooperative effort, consultation, and discussion are effective (and strongly encouraged) ways in which to learn, you are expected to complete your own work. Submitting copied or duplicated work of another student is considered cheating. Cheating may result in an "F" grade in the class and possible suspension from the college. Allowing another student to copy your work may result in the same penalty for you. Do not let anyone copy your work!

ATTENDANCE POLICY:

You are responsible for your own attendance. You are expected to regularly attend all lecture and lab sessions. Weekly submission of quizzes or exams and assignments show your participation. Students who do not participate can be dropped for excessive absence. In a compressed course **IT IS MOST IMPORTANT THE STUDENT PLACE A HIGH PRIORITY ON PARTICIPATION IN CLASS!** If you have discontinued participation in the course it is your responsibility to drop the course. Failure to do this may result in an "F" grade for the course. Students are responsible for complying with the "add/drop" procedures and for processing add/drop forms with the Admissions office before the deadlines. Be sure to check at the first class meeting regarding the session drop deadline.

LAB HOURS/ARRANGED HOURS:

This course includes lab hours. The class workload for courses at SAC is generally intended to require 48 hours of work for each unit of credit, so 3 units equals a total of **144 hours of work**. These hours are scheduled in virtual or in person class lecture and lab assignments. You must plan to do homework such as textbook reading, and study/review as well. Plan your time accordingly. The CAD lab will be open each week. The [Lab Schedule](#) is posted on the [Engineering Department](#) website and also available in the CAD Lab, at A-225 on campus. Students are responsible for reading and complying with all aspects of the "Standards of Conduct For computer Classrooms and Computer Labs". The Computer Conduct Information is the first link on the Course Information page of this class and must be read and agreed to by all students who use SAC computers. The quiz posted for Computer Conduct allows you to select true to demonstrate your agreement with SAC rules. *You cannot use SAC computers if you don't read the form and select true when you take the quiz.*

MINIMUM STUDENT MATERIALS:

Textbooks. Removable storage media such as USB flash drive or DVD-R are recommended for back up of your work. 3-ring binder, notepaper and pencils/pens. Download of the free student version of AutoCAD is recommended for students' use on their own computer systems, provided the student's system is adequate to run it. Verify system requirements for AutoCAD at <http://www.autodesk.com>.

GETTING OFF TO A GOOD START:

It is so important to get off to a good start. Santa Ana College is eager to accommodate students with disabilities. It is the responsibility of the student to inform the instructor of any special needs in a timely manner. Recommendations for the serious student follow:

1. Get the text before the first class meeting. The initial lecture will refer to information and assignments in the text.
2. Plan to attend class regularly. Quizzes, lectures, and demonstration will build upon one another, so it is important to do work sequentially..
3. Find a "Learning Partner" for mutual help. The instructor cannot be expected to bring you up-to-date with every detail if you miss announcements, emailed directions or corrections, fall behind with lectures, lab demonstrations, or assignments. If you and your study partner cannot mutually resolve questions, and need additional information, check the course FAQ first, and if still uncertain, email the instructor the details of your questions.
4. Be sure to review your email and the announcements in Blackboard regularly. For 6 or 8 week sessions, review daily.

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By Susan Sherod