



**ENGR 1304.01E Computer Aided Design (CAD)**  
COURSE SYLLABUS: FALL 2026 (MONDAYS)

**INSTRUCTOR INFORMATION**

**Instructor:** Ray Soles, Adjunct Professor  
**Office Location:** Charles J. Austin Engineering & Technology Building  
**Office Hours:** By appointment.  
**Office Phone:** 903-886-5474  
**Office Fax:** 903-886-5960  
**University Email Address:** Ray.Soles@etamu.edu  
**Preferred Form of Communication:** Email  
**Communication Response Time:** Max 48 hours

**COURSE INFORMATION**

Materials – Textbooks, Readings, Supplementary Readings

**Textbook(s) Required**

**Tutorial Guide to AutoCAD 2025**, Shawna Lockhart, ISBN 978-1-63057-667-7

**Course Description**

[ENGR 1304 – Computer Aided Design \(CAD\)](#). This is an introductory course in computer-aided drafting/design. Students will be taught basic CAD commands, tools, multi-view drawing and dimensioning techniques. This course is three (3) Credit Hours.

**Student Learning Outcomes**

1. Demonstrate basic concepts of the AutoCAD software.
2. Apply basic concepts to develop construction (drawing) techniques.
3. Ability to manipulate drawings through editing and plotting techniques.
4. Understanding geometric construction.
5. Produce template drawings.
6. Produce 2D Orthographic Projections.
7. Understand and demonstrate dimensioning concepts and techniques.
8. Understand Section and Auxiliary Views.
9. Become familiar with the use of Blocks and Design Center.
10. Become familiar with Solid Modeling concepts and techniques.

*The syllabus/schedule are subject to change.*

## COURSE REQUIREMENTS

### Minimal Technical Skills Needed

Using the learning management system (LMS).

### Instructional Methods

This course will be taught face-to-face during the scheduled course time. All assignments, quizzes, and exams will be completed or submitted using the course LMS. The assignments will coincide with the tutorials covered in the lecture. Further details will be given with each of the assignments during scheduled coursetime.

### Student Responsibilities or Tips for Success in the Course

The student has a responsibility to arrive on time and ready to work, this includes having material to take notes from the lectures.

### GRADING

Final grades in this course will be based on the following scale:

405 to 450 points = A

360 to 404 points = B

315 to 359 points = C

270 to 314 points = D

< 270 points = F

### ASSESSMENTS

Assignment 1	25 pts	Quiz 1	10 pts	Exam 1	35 pts
Assignment 2	25 pts	Quiz 2	10 pts	Exam 2	35 pts
Assignment 3	25 pts	Quiz 3	10 pts	Project	50 pts
Assignment 4	25 pts	Quiz 4	10 pts		
Assignment 5	25 pts	Quiz 5	10 pts		
Assignment 6	25 pts	Quiz 6	10 pts		
Assignment 7	50 pts	Quiz 7	10 pts		
Assignment 8	50 pts	Quiz 8	10 pts		

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Assessment	Student Learning Outcomes (SLO)
Assignment 1	1,2
Assignment 2	3
Assignment 3	9
Assignment 4	7
Assignment 5	4
Assignment 6	5
Assignment 7	6,8
Assignment 8	10

### TECHNOLOGY REQUIREMENTS

#### LMS

All course sections offered by East Texas A&M University have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

[https://documentation.brightspace.com/EN/brightspace/requirements/all/browser\\_support.htm](https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm)

Zoom Video Conferencing Tool

[https://inside.tamuc.edu/campuslife/CampusServices/CITESupportCenter/Zoom\\_Account.aspx?source=universalmenu](https://inside.tamuc.edu/campuslife/CampusServices/CITESupportCenter/Zoom_Account.aspx?source=universalmenu)

#### ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or [helpdesk@tamuc.edu](mailto:helpdesk@tamuc.edu).

**Note:** Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, an ETAMU campus open computer lab, etc.

#### COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your instructor.

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### **Technical Support**

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here: <https://community.brightspace.com/support/s/contactsupport>

### **Interaction with Instructor Statement**

This is a face-to-face course. Please ask questions in class, feel free to schedule an appointment. If you need to contact me and cannot make it to my office hours, please contact me via email.

## **COURSE AND UNIVERSITY PROCEDURES/POLICIES**

### **Course Specific Procedures/Policies**

Attendance is taken at the beginning of every scheduled class.

Late work **WILL NOT** be accepted (unless previously approved).

There is **NO** Extra Credit.

### **Syllabus Change Policy**

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

### **University Specific Procedures**

#### **Student Conduct**

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail online in the Student Guidebook.

Students should also consult the Rules of Netiquette Webpage for more information regarding how to interact with students in an online forum. All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The [Code of Student Conduct](#) is described in detail online in the [Student Guidebook](#).

Students should also consult the [Rules of Netiquette Webpage](#) for more information regarding how to interact with students in an online forum.

#### **ETAMU Attendance**

For more information about the attendance policy, please view the [Attendance Webpage](#) and the [Class Attendance Policy](#)

#### **Academic Integrity**

Students at East Texas A&M University are expected to maintain high standards of integrity and honesty in all their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

[Undergraduate Academic Dishonesty University Procedure 13.99.99.R0.03](#)

[Undergraduate Student Academic Dishonesty Form](#)

[Graduate Student Academic Dishonesty University Procedure 13.99.99.R0.10](#)

[Graduate Student Academic Dishonesty Form](#)

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### **Use of Artificial Intelligence**

East Texas A&M University acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources

### **Students with Disabilities-- ADA Statement**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides reasonable accommodation of their disabilities. If you have a disability requiring accommodation, please contact:

#### **Office of Student Disability Resources and Services**

East Texas A&M University  
Velma K. Waters Library Rm 162  
Phone (903) 886-5150 or (903) 886-5835  
Fax (903) 468-8148  
Email: [studentdisabilityservices@tamuc.edu](mailto:studentdisabilityservices@tamuc.edu)  
Website: [Student Disability Services](#)

### **Nondiscrimination Notice**

East Texas A&M University will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

### **Campus Concealed Carry Statement**

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in East Texas A&M University buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

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Pursuant to PC 46.035, the open carrying of handguns is prohibited on all East Texas A&M University campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

### **East Texas A&M Supports Students' Mental Health – Counseling Services**

The Counseling Center at East Texas A&M, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit <https://www.etamu.edu/counseling-center/>

### **Mental Health and Well-Being**

The university aims to provide students with essential knowledge and tools to understand and support mental health. As part of our commitment to your well-being, we offer access to Telus Health, a service available 24/7/365 via chat, phone, or webinar. Scan the QR code to download the app and explore the resources available to you for guidance and support whenever you need it.



## COURSE OUTLINE / CALENDAR

<b>Week 1</b> <b>1/12</b>	<p>Review objectives, syllabus, etc.</p> <p>Become familiar with MyLeo and D2L</p> <p>Create Mech 10 Template</p> <p><i>Homework:</i> Read Chapter 1 and Chapter 2</p>
<b>Week 2</b> <b>1/19</b>	Holiday
<b>Week 3</b> <b>1/26</b>	<p><i>LECTURE – Chapter 1 and Chapter 2</i></p> <p>Lecture on basic concepts of AutoCAD tools. (AutoCAD Ribbons / AutoCAD set-up)</p> <p><i>LAB</i></p> <p>Work on Assignment 1, Assignment 1 Due</p> <p><i>Homework:</i> Read Chapter 3</p>
<b>Week 4</b> <b>2/2</b>	<p><i>LECTURE – Chapter 3</i></p> <p>Lecture on basic tools of AutoCAD. (Draw)</p> <p><i>LAB</i></p> <p>Quiz-1, Work on Assignment 2, Assignment 2 Due</p> <p><i>Homework:</i> Read Chapter 10</p>
<b>Week 5</b> <b>2/9</b>	<p><i>LECTURE – Chapter 10</i></p> <p>Lecture on basic tools of AutoCAD. (Draw and Modify)</p> <p><i>LAB</i></p> <p>Quiz-2, Work on Assignment 3, Assignment 3 Due</p> <p><i>Homework:</i> Read Chapter 7 and 8</p>
<b>Week 6</b> <b>2/16</b>	<p><i>LECTURE – Chapter 7 and Chapter 8</i></p> <p>Lecture on basic tools of AutoCAD. (Draw and Modify)</p> <p><i>LAB</i></p> <p>Quiz-3, Work on Assignment 4, Assignment 4 Due</p> <p><i>Homework:</i> Read Chapter 4</p>
<b>Week 7</b> <b>2/23</b>	<p><i>LECTURE – Chapter 4</i></p> <p>Lecture on basic tools of AutoCAD. (Draw and Modify)</p> <p><i>LAB</i></p> <p>Quiz-4, Work on Assignment 5, Assignment 5 Due</p> <p><i>Homework:</i> Read Chapter 5</p>
<b>Week 8</b> <b>3/2</b>	<p><i>LECTURE – Chapter 5</i></p> <p>Lecture on basic tools of AutoCAD. (Draw, Dimension, and Modify)</p> <p><i>LAB</i></p> <p>Quiz-5, Work on Assignment 6, Assignment 6 Due</p> <p><i>Homework:</i> Read Chapter 6 and 9</p>
Spring Break	

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<b>Week 9</b> <b>3/16</b>	<b>Exam-1</b>
<b>Week 10</b> <b>3/23</b>	<i>LECTURE – Chapter 6 and Chapter 9</i> Lecture on basic tools of AutoCAD. (Draw, Dimension, and Modify) <i>LAB</i> Quiz-6, Work on Assignment 7 (can turn in early)
<b>Week 11</b> <b>3/30</b>	<i>Make Up Day</i> <i>LAB</i> Work on Assignment 7, Assignment 7 Due <i>Homework: Read Chapter 11</i>
<b>Week 12</b> <b>4/6</b>	<i>LAB</i> Quiz-7, Work on Assignment 8 (can turn in early)
<b>Week 13</b> <b>4/13</b>	<i>Make Up Day</i> <i>LAB</i> Work on Assignment 8, Assignment 8 Due
<b>Week 14</b> <b>4/20</b>	Quiz-8, <b>Work on Project (instructions will be provided, can turn in early)</b>
<b>Week 15</b> <b>4/27</b>	<b>Work on Project, Project Due</b>
<b>Week 16</b> <b>5/4</b>	<b>Exam-2 (Final)</b>

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