

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 www.etamu.edu/counsel

ENGR 2303 (Section 01E) ENGINEERING MECHANICS



COURSE SYLLABUS: FALL 2026
M-W-F 10:00 am-10:50 am - Location: AGIT211

INSTRUCTOR INFORMATION

Instructor: Ayman Elzohairy,
Associate Professor-Department of Engineering and Technology.

Office Location: Room 129

Office Hours: **M** (12:00 pm – 2:00 pm)
T (10:00 am – 11:00 am)
W (12:00 pm – 2:00 pm)
R (10:00 am – 11:00 am)

Office Phone: 903.886.5474

Email Address: Ayman.Elzohairy@etamu.edu

Preferred Form of Communication: E-mail

Communication Response Time: Emails will be responded to on the same day.

Feel free to send an email at any time. Emails received during the weekend will be responded at the evening on the same day.

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

Textbook(s) Required: “optional”

“ENGINEERING MECHANICS - STATICS AND DYNAMICS”, R.C. Hibbeler,
14th Ed., ISBN: 9780133915426.

The syllabus/schedule are subject to change.

Course Description:

This course will focus on equilibrium of particles and rigid bodies; centroids and center of gravity; internal forces of trusses, frames, and machines; internal forces in structural members; friction; second moment of areas; kinematics and kinetics of individual and systems of particles; principles of work and energy, and impulse and momentum; steady and variable mass flow. Prerequisites: PHYS 2425 with a minimum grade of C.

Student Learning Outcomes:

To study the fundamental theory and applications of engineering mechanics. Students successfully completing this course will:

1. Recognize the way in which simple systems resist forces and moments.
2. Be able to simplify a complex force analysis problem down to one that can be analyzed.
3. Understand the fundamentals of analysis of mechanical elements and structural members often encountered in engineering practice.
4. Analyze the accelerated motion of a particle/rigid body using the equation of motion (Newton's Second Law of Motion) with different coordinate systems.

COURSE REQUIREMENTS

Minimal Technical Skills Needed:

Using the learning management system, D2L, and using Microsoft Word and PowerPoint.

Instructional Methods:

This course is an enhanced course. This means course materials and lecture notes will be provided via a course website on D2L. All announcements will be posted on the course website as well. Assignments will be asked to be submitted in class or on the course website. Students' grades for assignments and exams will be indicated on the submitted papers if available and on the course website.

Student Responsibilities or Tips for Success in the Course:

It is a student's responsibility to log in to D2L in a timely manner to read announcements, access necessary course materials, submit assignments and answer quiz questions whenever required. Students can set up their D2L account such that they will receive notifications via emails and/or text messages from D2L when there are new updates on our course website. For more details about how to access the

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course website, read all the subsections of Section ACCESS AND NAVIGATION of this syllabus.

GRADING

Final grades:

In this course will be based on the following scale:

A = 90%-100%

B = 80%-89.9%

C = 70%-79.9%

D = 60%-69.9%

F = 59.9% or Below

Assessments:

The student's final grade will be assessed based on the following:

1. Home Works (25%)
2. Quizzes (25%)
3. Exam-I (25%)
4. Exam-II (25%)

TECHNOLOGY REQUIREMENTS

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 the 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

YouSeeU Virtual Classroom Requirements:

<https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements>

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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@etamu.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, a 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.

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

In general, discussing your questions and/or concerns during office hours with me is the most efficient way to communicate and to get help you need.

If you cannot visit my office during the office hours, it is preferred for you to send me emails with your questions. Please add “[Course Prefix and #]” in the subject title so that I recognize which course and section you are inquiring about. Please be as specific as possible in describing subjects and/or concepts you need more assistance from me

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As indicated at the beginning of this syllabus, all emails will be responded in the same day including weekends. Feedbacks and grading of your assignments and exams will be provided within a week from the due date/time.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

East Texas A&M requires the use of face-coverings in all instructional and research classrooms/laboratories. Exceptions may be made by faculty where warranted. Faculty have management over their classrooms. Students not using face coverings can be required to leave class. Repetitive refusal to comply can be reported to the Office of Students' Rights and Responsibilities as a violation of the Student Code of Conduct.

Students should not attend class when ill or after exposure to anyone with a communicable illness. Communicate such instances directly with your instructor. Faculty will work to support the student in getting access to missed content or completing missed assignments.

Class Attendance Requirements

You will not receive a grade deduction for your absences.

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Assignments and Late Assignments Policy:

1. All assignments should be submitted at the beginning of the class on the due date.
2. A few problems from an assignment will be selected to be graded for the correctness of procedures and their answers.
3. Remainder of the assignment will be graded for completeness of your solution procedures.
4. Late assignments will be accepted until the next lecture period with a **50%** grade deduction.

Missed Exams and Quizzes Policy

Unless prior arrangements are worked out with the instructor, a zero-grade will be awarded for a missed exam or quiz.

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 in the [Student Guidebook](http://www.etamu.edu/admissions/registrar/documents/studentGuidebook.pdf).
<http://www.etamu.edu/admissions/registrar/documents/studentGuidebook.pdf>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: [Netiquette](http://www.albion.com/netiquette/corerules.html)
<http://www.albion.com/netiquette/corerules.html>

ETAMU Attendance

For more information about the attendance policy please visit the [Attendance](http://www.etamu.edu/admissions/registrar/generalInformation/attendance.aspx) webpage and [Procedure 13.99.99.R0.01](http://www.etamu.edu/admissions/registrar/generalInformation/attendance.aspx).

<http://www.etamu.edu/admissions/registrar/generalInformation/attendance.aspx>
<http://www.etamu.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf>

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Academic Integrity

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

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

<http://www.etamu.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

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

<http://www.etamu.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf>

ADA Statement

Students with Disabilities

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 for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

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Office of Student Disability Resources and Services

East Texas A&M University Gee

Library- Room 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: Rebecca.Tuerk@etamu.edu

Website: [Office of Student Disability Resources and Services](http://www.etamu.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/)

<http://www.etamu.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

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 East Texas A&M 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.

Web url:

<http://www.etamu.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M campuses. Report violations to the University Police Department at 903886-5868 or 9-1-1.

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East Texas A&M Supports Students' Mental Health

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"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.

13.99.99.R0.03 Undergraduate Academic Dishonesty

13.99.99.R0.10 Graduate Student Academic Dishonesty"

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COURSE OUTLINE / CALENDAR

Week	Subject		
	Monday	Wednesday	Friday
1 8/20 – 8/30	Concentrated Forces in 2D	Concentrated Forces in 2D	Concentrated Forces in 2D
2 8/31 – 9/06	<< Labor Day >>	Particle Equilibrium in 2D	Particle Equilibrium in 2D
3 9/7 – 9/13	Concentrated Forces in 3D	Concentrated Forces in 3D	Concentrated Forces in 3D
4 9/14 – 9/20	Particle Equilibrium in 3D	Particle Equilibrium in 3D	Particle Equilibrium in 3D
5 9/21 – 9/27	Rigid Body Equilibrium in 2D	Rigid Body Equilibrium in 2D	Rigid Body Equilibrium in 2D
6 9/28– 10/04	Truss Analysis	Truss Analysis	Truss Analysis
7 10/05– 10/11	<< Exam I >>		
8 10/12 – 10/18	Internal Forces in Beams	Internal Forces in Beams	Internal Forces in Beams
9 10/19 – 10/23	Dry Friction and Wedges	Dry Friction and Wedges	Dry Friction and Wedges
10 10/26 – 11/01	Centroids and Moment of Inertia	Centroids and Moment of Inertia	Centroids and Moment of Inertia
11 11/02 – 11/08	Introduction to dynamics	Introduction to dynamics	Introduction to dynamics
12 11/09 – 11/15	Particle Kinematics	Particle Kinematics	Particle Kinematics
13 11/16 – 11/22	Particle Kinematics	Particle Kinematics	Particle Kinematics
14 11/23 – 11/29	<< Thanksgiving Break >>		
15 11/30 – 12/06	Projectile Motion		
Final Week	<< Exam II >>		

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