

Texas A&M university-Texarkana  
Course Syllabus

ENGR 312 – Engineering & Business Ethics  
Summer 2024

This syllabus is a guide for the course and is subject to change at the discretion of the instructor with proper notice to students.

**Contact Information**

**Instructor** Abdallah Farraj, Ph.D., P.Eng., SMIEEE  
**Email** AFarraj@tamut.edu  
**Office Phone** (979) 317-3419  
**Office Hours** MTW 9:00 AM – 10:30 AM (Online) or by appointment

**Course Description**

This course will make science and engineering students aware of ethical issues they will face in the work environment. It will help them understand the responsibilities of scientists and engineers and prepare them to articulate and respond to ethical conflicts. Class will involve case studies, discussions, writing response papers and tests.

**Course Prerequisites**

N/A.

**Course Meeting Information**

**Delivery Method** Asynchronous Online  
**Meeting Time** N/A  
**Meeting Location** Canvas  
**Start/End Dates** 5/28/2024 – 7/1/2024

**Required Textbooks/Resources**

<b>Title</b>	Engineering Ethics – Concepts and Cases
<b>Edition</b>	6 <sup>th</sup>
<b>Author(s)</b>	Charles Harris, Michael Pritchard, Michael Rabins, Ray James, and Elaine Englehardt
<b>Publisher</b>	Cengage
<b>ISBN</b>	978-1337554503

**Student Learning Outcomes**

By the completion of this course, the student will be able to:

<b>Course Objectives</b>	<b>ABET</b>	<b>Assessment</b>
1. Develop an understanding of ethics and analyze ethical choices of action.	4, 7	Case Studies
2. Gain insight on ethical practices and violations in the work environment and ethical requirements in professional licensure.	4	Exams
3. Foster an ethically acceptable approach to science and engineering that can be implemented in the workplace.	4, 7	Case Studies
4. Demonstrate knowledge of the major issues and problems facing modern science and engineering, including issues that touch upon ethics, values, and public policies.	2, 4	Exams

**Tentative Course Outline**

<b>Week no.</b>	<b>Topics</b>	<b>Textbook Material</b>
1	Engineers: Professionals for the Human Good	Chapter 1
1	A Practical Ethics Toolkit	Chapter 2
2	Responsibility in Engineering	Chapter 3
2	Engineers in Organizations	Chapter 4

3	Trust and Reliability	Chapter 5
3	The Engineer’s Responsibility to Assess and Manage Risk	Chapter 6
4	Engineering and the Environment	Chapter 7
4	Engineering in the Global Context	Chapter 8
5	New Horizons in Engineering	Chapter 9

### Methods of Evaluation

Component	Tentative Due Date	Weight
Exam 1	Monday June 3	10%
Exam 2	Monday June 10	10%
Exam 3	Monday June 17	10%
Exam 4	Monday June 24	10%
Exam 5	Monday July 1	10%
Assignment 1	Monday June 3	5%
Assignment 2	Monday June 10	5%
Assignment 3	Monday June 17	5%
Assignment 4	Monday June 24	5%
Assignment 5	Monday July 1	5%
Case Study 1	Monday June 3	5%
Case Study 2	Monday June 10	5%
Case Study 3	Monday June 17	5%
Case Study 4	Monday June 24	5%
Case Study 5	Monday July 1	5%

- Depending on the dynamics of the semester, an exam might be replaced with semester work (homework assignments, quizzes, participation, projects, etc.) or vice versa. Proper notice will be given to the students.
- Unexcused and uncommunicated late work will not be accepted.

### Grading Scale

A = 90-100%, B = 80-89%, C = 70-79%, D = 60-69%, F = 0-59%.

### Course Etiquette

- Students will demonstrate respect for professors and fellow students.
- Using humor to demean or disparage others is not acceptable.
- Respectful and Professional communication and writing format should be followed in all interactions in the discussion board.

### Online Participation Policy

- Students are responsible for beginning their participation on the **FIRST DAY OF CLASSES** by logging on and completing assignments/quizzes according to the COURSE CALENDAR. Failure to submit online assignments between the first day of classes and the University census date (according to the University schedule) will result in an ADMINISTRATIVE DROP from the course.
- Student participation is encouraged. Students are expected to actively participate throughout the week in order to promote a meaningful and engaging learning experience.

### Online Web Conferencing Etiquette

This standard applies to situations where web conferencing is required or a web conference with your instructor is necessary.

- You are expected to be courteous towards the instructor and your classmates in any online discussions or video conferences.
- You are expected to be on time for any scheduled video meetings.
- Cell phones should be turned off during any video conferences and any distractions (dogs, children, etc.) should be removed from your webcam area during the video meeting.

### Discussion Board Standards

The "tone" is a very important part of electronic communication. When you read your message out loud, does it sound the way you would speak to another student in the classroom? Below are some basic guidelines that you should follow:

- Think through and re-read your comments before you post them.
- Be nice. Refrain from inappropriate language and derogatory or personal attacks.
- Make a personal commitment to learning about, understanding, and supporting your peers.
- Assume the best of others in the class and expect the best from them.
- Disagree with ideas but avoid challenges that may be interpreted as a personal attack.
- Be open to being challenged or confronted with your ideas or prejudices.
- Challenge others with the intent of facilitating growth. Do not demean, harass, or embarrass others.

### Disability Accommodations

Texas A&M University-Texarkana is committed to the principle that every individual should have an equal opportunity to enroll in an academic course of study, to register for courses or examinations, and to complete a degree or certificate. Students with disabilities may request reasonable accommodations through Disability Services in the Office of Student Life by filling out the Accommodation Request Form located at <https://tamut.edu/campus-life/Disability-Services/index.html> or by contacting the Office of Student Life at [accommodations@tamut.edu](mailto:accommodations@tamut.edu) or 903.223.1351.

### Academic Integrity

Academic honesty is expected of students enrolled in this course. Cheating on examinations, unauthorized collaboration, falsification of research data, plagiarism, and undocumented use of materials from any source constitute academic dishonesty and may be grounds for a grade of 'F' in the course and/or disciplinary actions. For additional information, see the university catalog.

### Artificial Intelligence Guidelines

In this course, students are permitted to utilize AI assistants, including ChatGPT, Google Bard, and ChatPDF, to assist in their writing process. We acknowledge the potential benefits of AI technology in supporting students' writing and critical thinking while upholding academic integrity. Consequently, it is imperative for students to adhere to the following guidelines to ensure the integrity of their work when utilizing AI assistants:

- **Proper Credit:** Alongside each assignment, students must provide citations for the AI assistants they employ in their work.
- **Explanation of Prompts and Assistance:** Students are required to include an explanation of the prompts used and provide a concise summary detailing how the AI assistants aided them in crafting their assignments.
- **Fact-Checking Responsibility:** Students bear the responsibility of fact-checking all information generated by the AI assistants. Any inaccuracies identified in the final submission will be considered a violation of academic integrity.
- **Purposeful Use of AI Assistants:** AI assistants should be used solely to enhance students' writing, not to engage in academic dishonesty or cheating. Submitting work that has been entirely generated by an AI assistant is considered plagiarism.
- **Awareness of AI Limitations and Evolution:** Students must be aware of the limitations inherent in AI assistants and acknowledge that AI technology is continually evolving.
- **Consequences for Non-Compliance:** Students who fail to comply with these guidelines will be subject to the university's academic integrity policy. Consequences may include receiving a failing grade for the assignment or facing disciplinary action.
- **Open Communication with Instructors:** Students are strongly encouraged to communicate with their instructor if they have any questions or concerns regarding the appropriate use of AI assistants.

These guidelines promote the ethical use of AI technology in the classroom. Students should use AI technology to supplement their writing skills and critical thinking abilities while maintaining academic integrity.

### Texas A&M-Texarkana Email Address

Upon application to Texas A&M University-Texarkana an individual will be assigned an A&M-Texarkana email account. This email account will be used to deliver official university correspondence. Each individual is responsible for information sent and received via the university email account and is expected to check the official A&M-Texarkana email account on a frequent and consistent basis. Faculty and students are required to utilize the university email account when communicating about coursework.

### Drop Policy

- To drop this course after the census date, a student must complete the Drop/Withdrawal Request Form, located at <https://www.tamut.edu/Admissions/Enrollment-Services/Registrar/Dropping.html> or obtained in the Registrar's Office. The student must submit the signed and completed form to the instructor of each course indicated on the form to be dropped for his/her signature. The signature is not an "approval" to drop, but rather confirmation that the student has discussed the drop/withdrawal with the faculty member. The form must be submitted to the Registrar's office for processing in person, email [Registrar@tamut.edu](mailto:Registrar@tamut.edu), mail (7101 University Ave., Texarkana, TX 75503) or fax (903-223-3140).
- Drop/withdraw forms missing any of the required information will not be accepted by the Registrar's Office for processing. It is the student's responsibility to ensure that the form is completed properly before submission.

- If a student stops participating in class (attending and submitting assignments) but does not complete and submit the drop/withdrawal form, a final grade based on work completed as outlined in the syllabus will be assigned.

#### Student Technical Assistance

- Solutions to common problems and FAQs for your web-enhanced and web courses are found at this link: <https://tamut.edu/Academics/Online-Education/Student-Training/index.html>.
- If you cannot find your resolution there, you can submit a support request by contacting the IT Service Desk by Email: [isite@tamut.edu](mailto:isite@tamut.edu) or phone: 903-334-6603.