



**MIDWESTERN**  
STATE UNIVERSITY

**MCCOY SCHOOL OF ENGINEERING**  
**SYLLABUS – FALL 2025**

## **MENG/EENG 1101: INTRO TO ENGINEERING**

### **COURSE INSTRUCTOR**

Dr. Zeki Ilhan ([zeki.ilhan@msutexas.edu](mailto:zeki.ilhan@msutexas.edu))

Office: McCoy Hall 219E

Phone: (940) 397-4004

### **TEACHING ASSISTANT**

TBA

### **CLASS SCHEDULE**

<i>Days</i>	<i>Time</i>	<i>Location</i>
Monday		
Tuesday		
Wednesday		
Thursday		
Friday	01:00 pm – 01:50 pm	MY 207

### **OFFICE HOURS**

<i>Days</i>	<i>Time</i>	<i>Location</i>
Monday	01:00 pm – 03:00 pm	MY 219E
Tuesday	11:00 am – 12:00 pm	MY 219E
Wednesday		
Thursday	11:00 am – 12:00 pm	MY 219E
Friday	11:00 am – 12:00 pm	MY 219E

### **CATALOG DESCRIPTION**

An introduction to engineering as a career. The major fields of engineering and the typical responsibilities of an engineer are introduced through the use of guest speakers and field trips. Development of skills in teamwork, problem solving, and basic computer applications as related to engineering.

### **RECOMMENDED TEXTBOOK**

Introduction to Engineering by Paul H. Wright, 3<sup>rd</sup> Edition.  
Wiley. ISBN: 978-0-471-05920-2

### **LIST OF TOPICS COVERED\***

- History of Engineering
- Engineering Challenges for the Future
- Engineering Fields of Specialization
- Career Paths for Graduating Engineers
- Professional Registration
- Professional Organizations
- Engineering Ethics & Case Studies
- Tips for Academic Success
- Fact-based Presentations

*\*Additional material might be covered as the time permits.*

### **ATTENDANCE POLICY**

This course will be delivered in face-to-face mode. Attendance is mandatory, and it represents a part of your overall grade. Attendance will be checked randomly **on select lectures** using the [AttendMe App](#). Detailed instructions on how to download and use the app will be made available in the lectures.

## GRADING SCHEME

The overall course grade will be based on the scores earned on the tests, homework assignments, presentation, and attendance. The contribution of each grade item to the overall score is summarized in Table 1.

Table 1: Percentage contribution of each grade item to the overall grade.

Grade Item	Contribution
Test 1	25%
Test 2	25%
Final Exam	25%
Homework	15%
Presentation	5%
Attendance	5%
<b>TOTAL</b>	<b>100%</b>

## FINAL EXAM

Thursday, December 11, 03:30 pm – 05:30 pm

## DESIRE 2 LEARN (D2L) & BRIGHTSPACE PULSE

I will use the [D2L](#) platform for posting the syllabus, course communication, lecture notes, assignments, and grades. Mobile version of the D2L platform is the [Brightspace Pulse App](#), which is available for free on iPhone, iPad, and Android devices. Consider downloading Pulse for instant notifications about the course.

## STUDENT RESOURCES

For quick links to numerous offices and student services available on the MSU Campus, please refer to the [MCOSME Student Resources Website](#)

## ACADEMIC MISCONDUCT POLICY & PROCEDURES

Academic Dishonesty: Cheating, collusion, and plagiarism (the act of using source material of other persons, either published or unpublished, without following the accepted techniques of crediting, or the submission for credit of work, not the individual to whom credit is given). Additional guidelines on procedures in these matters may be found in the [Office of Student Conduct](#).

## USE OF GENERATIVE AI

Students may use AI tools (e.g., ChatGPT) for brainstorming purposes, similar to how one might use a search engine like Google. However, generating assignments *entirely* through AI without meaningful personal input, revision, or understanding is ***not*** permitted and will be considered a form of plagiarism.

## CONFLICT RESOLUTION PROCESS

1. In the event of an issue with the course or the instructor, the student should first contact the instructor. The faculty and the student will discuss the issue. Hopefully, a resolution is reached.
2. The student should notify the faculty via email again if the issue still did not get resolved after the first communication.
3. If not resolved, the student could then contact the Chair of the McCoy School of Engineering, Dr. Desai, face to face or via email, ([raj.desai@msutexas.edu](mailto:raj.desai@msutexas.edu)), and discuss the issue.
4. Dr. Desai will discuss the issue at hand with the faculty member. Dr. Desai will discuss the result of this discussion with the student. Hopefully, a resolution is reached on the issue after this step.
5. The student should notify the Chair via email if the issue still did not get resolved.
6. The Chair will contact the Dean and try to resolve the conflict. In case the conflict deals with the student grade, he will forward the case to the Grade Appeals Committee, if necessary.

## COURSE ORGANIZATION AND ASSESMENT

- **Course Format:** This course consists of one 50-minute session each week. Class meetings will cover the most essential lecture topic. Due to time limitations, not all the material in the textbook can be covered during the class; hence, follow the instructor's guidance and the lecture notes in D2L to relate the lecture material to the relevant chapters/sections of the textbook. You will **not** be responsible for those chapters/sections of the textbook that are not covered in the class.
- **General Study Guidelines:** Plan on spending at least an hour outside of class ***each week*** to review the lecture material and complete the assignments. Do not wait until the last day to prepare for exams. Utilize office hours whenever you need help about the assignments or the course material.
- **Student Attitude:** After the class starts, the use of phones, conducting private discussions, working on anything that is not directly related to the course, and making derogatory remarks about your classmates or instructor will not be accepted and may result in your dismissal from the class.
- **Midterm Progress Reports:** In order to help students keep track of their progress toward course objectives, the instructor will provide a Midterm Progress Report for at-risk students through their WebWorld account. Midterm grades will not be reported on the students' transcript; nor will they be calculated in the cumulative GPA. They simply give students an idea of where they stand at the midpoint of the semester. Students with a midterm grade below a C should talk to the professor and seek out tutoring.
- **Homework Evaluation Method:** Your performance will be tested regularly throughout the semester by homework assignments. While several homework problems may be assigned as part of a homework assignment, it may be the case that only a subset of problems will be graded. However, you must attempt all problems. ***Do not try to guess which problems will not be graded.***
- **Late Assignments:** Homework assignments must be submitted on the due date, at the due time. Late assignments will ***NOT*** be accepted. However, depending on the overall class progress, ***one (or two) of the lowest graded assignments may not be included in the final grade.***
- **Exam Make-up:** Make-up exams will be given only in case of an ***emergency*** (accompanied by a doctor's report) or a well-documented conflict due to a scheduled ***athletic event*** or a ***conference***.
- **Grade Appeals:** Grade appeals should be resolved with the instructor. If unresolved, they need a formal written appeal to the Dean of the College in which the course was taught. For more information about the grade appeals, consult the [Grade Appeal Checklist](#) through the MCOSME Student Resources website.
- **Academic Honesty Appeals:** Academic honesty appeals are reported to the Department Chair. For more information about the academic honesty appeals, consult the [Academic Honesty Checklist](#) through the MCOSME Student Resources website.
- **Disability Support Services:** In accordance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University endeavors to make reasonable accommodations to ensure equal opportunity for qualified persons with disabilities to participate in all educational, social, and recreational programs and activities. If you have a documented disability that will impact your work in this class, please make an appointment through [Disability Support Services](#) located in the Clark Student Center, Room 168, (940) 397-4140.
- **Disclaimer Statement:** Information contained in this syllabus, other than grading policies, may be subject to change with advance notice, as deemed appropriate by the instructor.

## COURSE OBEJCTIVES IN RELATIONSHIP TO ABET STUDENT OUTCOMES

Table 2: Course objectives matched with the ABET student outcomes (1-7)

COURSE OBJECTIVES	1	2	3	4	5	6	7
Students will be able to define the major differences between an engineer and a scientist.				X			
Students will learn about the major engineering accomplishments throughout the history.			X	X			X
Students will be able to name some of the major engineering challenges of the future.			X	X			X
Students will be able to name the different engineering fields and specialty areas.			X	X			X
Students will be able to name the career options for graduating engineers.			X	X			X
Students will learn about the engineering ethics through case studies based on real-life scenarios.				X			
Students will be able to deliver short, fact-based engineering presentations in teams.			X		X		X

Table 3: Detailed descriptions of the ABET student outcomes (1-7) listed in Table 2.

ABET OUTCOME	DESCRIPTION
1	an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2	an ability to apply engineering design to produce solutions that meets specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3	an ability to communicate effectively with a range of audiences.
4	an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgements, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5	an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6	an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7	an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.