



MIDWESTERN
STATE UNIVERSITY

MCCOY SCHOOL OF ENGINEERING
SYLLABUS – FALL 2026

MENG 1132 - 101: ENGINEERING GRAPHICS

COURSE INSTRUCTOR

Dr. Zeki Ilhan (zeki.ilhan@msutexas.edu)

Office: McCoy Hall 219E

Phone: (940) 397-4004

TEACHING ASSISTANT

TBA

CLASS SCHEDULE

Days	Time	Location
Monday		
Tuesday		
Wednesday		
Thursday		
Friday	02:00 pm – 04:50 pm	MY 207

OFFICE HOURS

Days	Time	Location
Monday	12:00 pm – 01:00 pm	MY 219E
Tuesday	11:00 am – 12:00 pm	MY 219E
Wednesday	12:00 pm – 01:00 pm	MY 219E
Thursday	11:00 am – 12:00 pm	MY 219E
Friday	01:00 pm – 02:00 pm	MY 219E

CATALOG DESCRIPTION

Essentials of drafting and blueprint reading; orthographic projections, sectional views, pictorial drawing, geometric and dimensional tolerancing, finishing symbols. Introduction to sketching, computer-aided-drafting, and technical graphs.

TEXTBOOK

Introduction to Solid Modeling Using SolidWorks 2026: Evergreen Release (or, earlier versions 2023-2025)

by William E. Howard & Joseph C. Musto. McGraw Hill, 2026.

ISBN: 9781265693589 (bound) | ISBN: 9781264828241 (digital)

Reference textbook (optional): Technical Drawing with Engineering Graphics

by F.E. Giesecke, et al., 15th Edition, Pearson, 2016. ISBN: 9780134306414

LIST OF TOPICS COVERED*

- Introductory and Elementary Part Modeling
- Orthographic Projections
- Engineering Drawings with Detail and Section Views
- Dimensioning & Tolerancing
- Assembly Drawings
- Introduction to 3D-Printing

**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 contribution of each grade item to the overall score is summarized in Table 1. Three exams sum up to 70% of the total grade, while homework scores sum up to an additional 15%, term project accounts for 10%, and the attendance represents the remaining 5%.

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

Grade Item	Contribution
Test 1	25%
Test 2	25%
Final Exam	20%
Homework	15%
Term Project	10%
Attendance	5%
TOTAL	100%

FINAL EXAM

Thursday, December 10, 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 (ChatGPT, Gemini, etc.) 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.

RECORDING CLASSES

Recording classes is prohibited without the professor's explicit permission. Such recordings, when permitted, are for personal use only and may not be uploaded to the internet or otherwise shared, transmitted, or published without the professor's prior consent. When it is feasible and appropriate, students may record classes to accommodate disabilities under the Americans With Disabilities Act, with prior approval of the Disability Support Services. Such recordings may not be uploaded to the internet or otherwise shared, transmitted, or published.

EMERGENCY AID RESOURCES FOR BASIC NEEDS

Unexpected life circumstances can affect anyone. If you are experiencing challenges meeting basic needs—such as housing, utilities, food, transportation, healthcare, technology, textbooks or other life necessities, resources may be available to help. Visit the [Student Emergency Support and Resources webpage](#) to learn more, and explore emergency support opportunities through MSU and how to access them. For additional information, please contact the Office of Student Affairs: Clark Student Center #108, (940) 397-7500, student.affairs@mstuexas.edu

COURSE ORGANIZATION AND ASSESMENT

- **Course Format:** This course consists of one 170-minute session each week. Class meetings will cover the most essential lecture topics and in-class drawing exercises. 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 when preparing for the exams. You will not be responsible for the material that is not covered in the class.
- **General Study Guidelines:** Plan on spending few hours outside of class each week to review the theory lecture, in-class drawing exercises, and complete the assignments/project. Do not wait until the last day to prepare for the exams. Utilize office hours whenever you need help about 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.***
- **Term Project:** A term project will be assigned in November. It requires generating a small mechanical assembly in SolidWorks along with its exploded view. More details about it will be published later in D2L.
- **Late Assignments:** All 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 Student Wellness Center, (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 OBJECTIVES 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 acquainted with primary and principal views, and the properties thereof, used in engineering graphics.	X					X	
Students will be able to use SolidWorks software to create 3D part models using basic and elementary part modeling techniques.	X					X	
Students will be able to use SolidWorks to produce 2D multi-view engineering drawings of mechanical parts.	X					X	
Students will be acquainted with sectional and detail views, and the properties thereof, used in engineering graphics.	X					X	
Students will be able to use SolidWorks to create mechanical assemblies and assembly drawings.	X					X	
Students will be introduced to the concepts of dimensioning and tolerance.	X	X				X	
Students will be introduced to additive manufacturing via 3D printing and slicing.	X	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 judgments, 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.