



**MIDWESTERN
STATE UNIVERSITY**

A Member of the Texas Tech University System

Course Syllabus: Dynamics
McCoy College of Science, Math and Engineering
MENG 2213
Fall 2024 MWF: 8:00 AM – 8:50 AM

Contact Information

Instructor: Pranaya Pokharel
Office: McCoy Hall 219C
Office hours: MWF 9:30-10:30 AM, R 09:30 AM-12:00 PM
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Course Description

Kinematics and kinetics of particles and rigid bodies in plane motion. Work-energy and impulse-momentum principles.

Course Pre-Requisite

MENG 2113

Textbook & Instructional Materials

Engineering Mechanics Dynamics by R. C. Hibbeler 15th edition, Pearson

Student Handbook

Refer to: [Student Handbook](#)

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Cheating, collusion, and plagiarism (the act of using source material of other persons, either published or unpublished, without following the accepted techniques of crediting, or the submission for credit of work not the individual's to whom credit is given).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

Moffett Library

Moffett Library provides resources and services to support student's studies and assignments, including books, peer-reviewed journals, databases, and multimedia materials accessible both on campus and remotely. The library offers media equipment checkout, reservable study rooms, and research assistance

from librarians to help students effectively find, evaluate, and use information. Get started on this [Moffett Library webpage](#) to explore these resources and learn how to best utilize the library.

Grading

The final grade for the course will be based on the scores earned in the two mandatory exams, the mandatory comprehensive exam, and the average score earned in two quizzes and in the homework. The exams each contributes 20%, the comprehensive exam contributes 30%, quizzes average contributes 15%, homework average contributes 10%, and active participation contributes 5%, for a total of 100%.

Table 1: Points allocated to each assignment.

Assignments	%
Attendance/Participation	5
Homework Average	10
First Exam	20
Second Exam	20
Quiz Average	15
Final Exam	30
Total Percent	100

Table 2: Total points for final grade.

Grade	%
A	90 - 100
B	80 to 89
C	70 to 79
D	60 to 69
F	Less than 60

Homework

All homework assignments will be due at the class period or in dropbox folder provided in D2L on the due date. After the due date, points will be taken off for late homework. After the solutions are discussed, late homework will be graded for 60% of the points. Printing issues are not a valid excuse for late homework. Print at home or the student center, library, or in the lab. Since writing, analytical, and critical thinking skills are part of the learning outcomes of this course, all writing, problem solving, and coding assignments should be prepared by the student. Developing strong competencies in this area will prepare you for a competitive workplace. Therefore, AI-generated submissions are not permitted and will be treated as plagiarism.

Quizzes

There will be two quizzes during the semester. You are expected to take them on the scheduled date and time. However, if for some acceptable reason you are not able to do so, then you must inform the instructor in advance. The instructor will then decide whether you will be allowed to take a make-up quiz, depending on the validity of your excuse.

Exams

There will be two midterm exams and one final exam during the semester. You are expected to take all exams on the scheduled date and time. However, if for some acceptable reason you are not able to do so, then you must inform the instructor in advance. The instructor will then decide whether you will be allowed to take a make-up exam, depending on the validity of your excuse. Final exam is scheduled on December 11, 2024.

Important Dates

Last day for term schedule changes: August 29, 2024. Check date on [Academic Calendar](#).

Deadline to file for graduation: September 23, 2024. Check date on [Academic Calendar](#).

Last Day to drop with a grade of "W:" November 25, 2024. Check date on [Academic Calendar](#).

Refer to: [Drops, Withdrawals & Void](#)

Desire-to-Learn (D2L)

Extensive use of the MSU D2L program is a part of this course. Each student is expected to be familiar with this program as it provides a primary source of communication regarding assignments, examination materials, and general course information. You can log into [D2L](#) through the MSU Homepage. If you experience difficulties, please contact the technicians listed for the program or contact your instructor.

Attendance

Students are expected to attend all meetings of the classes in which they are enrolled.

Change of Schedule

A student dropping a course (but not withdrawing from the University) within the first 12 class days of a regular semester or the first four class days of a summer semester is eligible for a 100% refund of applicable tuition and fees. Dates are published in the Schedule of Classes each semester.

Refund and Repayment Policy

A student who withdraws or is administratively withdrawn from Midwestern State University (MSU) may be eligible to receive a refund for all or a portion of the tuition, fees and room/board charges that were paid to MSU for the semester. HOWEVER, if the student received financial aid (federal/state/institutional grants, loans and/or scholarships), all or a portion of the refund may be returned to the financial aid programs. As described below, two formulas (federal and state) exists in determining the amount of the refund. (Examples of each refund calculation will be made available upon request).

Services for Students with Disabilities

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. After notification of acceptance, students requiring accommodations should make application for such assistance through Disability Support Services, located in the Clark Student Center, Room 168, (940) 397-4140. Current documentation of a disability will be required in order to provide appropriate services, and each request will be individually reviewed. For more details, please go to [Disability Support Services](#).

College Policies

Campus Carry Rules/Policies

Refer to: [Campus Carry Rules and Policies](#)

Smoking/Tobacco Policy

College policy strictly prohibits the use of tobacco products in any building owned or operated by WATC. Adult students may smoke only in the outside designated-smoking areas at each location.

Alcohol and Drug Policy

To comply with the Drug Free Schools and Communities Act of 1989 and subsequent amendments, students and employees of Midwestern State are informed that strictly enforced policies are in place which prohibits the unlawful possession, use or distribution of any illicit drugs, including alcohol, on university property or as part of any university-sponsored activity. Students and employees are also subject to all applicable legal sanctions under local, state and federal law for any offenses involving illicit drugs on University property or at University-sponsored activities.

Campus Carry

Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes as prohibited. The new Constitutional Carry law does not change this process. Concealed carry still

requires a License-to-carry permit, and openly carrying handguns is not allowed on college campuses. For more information, visit [Campus Carry](#).

Active Shooter

The safety and security of our campus is the responsibility of everyone in our community. Each of us has an obligation to be prepared to appropriately respond to threats to our campus, such as an active aggressor. Please review the information provided by the MSU Police Department regarding the options and strategies we can all use to stay safe during difficult situations. For more information, visit [MSUReady – Active Shooter](#). Students are encouraged to watch the video entitled “*Run. Hide. Fight.*” which may be electronically accessed via the University police department’s webpage: [“Run. Hide. Fight.”](#)

Grade Appeal Process

Students who wish to appeal a grade should consult the Midwestern State University [MSU Catalog](#)

***Notice:** Changes in the course syllabus, procedure, assignments, and schedule may be made at the discretion of the instructor.

Course Schedule:

The course is scheduled on MWF 8:00-8:50 AM

Topics	Assignments/Exams	Due Date
Introduction and Kinematics of a Particle	HW 1-4 / Quiz 1	TBD
Kinetics of a Particle: Force and Acceleration	HW 5	TBD
Kinetics of a Particle: Work and Energy	HW 6 / Exam 1	TBD
Kinetics of a Particle: Impulse and Momentum	HW 7	TBD
Planar Kinetics of a Rigid Body	HW 8 / Quiz 2	TBD
Kinetics of a Rigid Body: Force and Acceleration	HW 9 / Exam 2	TBD
Kinetics of a Rigid Body: Work and Energy	HW 10	TBD
Kinetics of a Rigid Body: Impulse and Momentum	HW 11	TBD
Course Review	Final Exam	Dec 11