

MET 2616 - Mechanics 2

Fall 2026 Syllabus, Section 01, CRN 43846,

Credit hours: 3

Instructor

Michelle Seifert

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Public Instructor Information

Master of Industrial Engineering & Management - MSE, Youngstown State University, 2014

Bachelor of Mechanical Engineering Technology - BSA, Youngstown State University, 2012

Student Support Hours/Office Hours: M/W 4-5 pm, Tues 1-4 pm. Other times are available, usually before or after class

Additional Contact Methods: 330-941-2365

Preferred Contact Method: email

Communication Expectations:

How to Refer to me: Professor Seifert

Course Description

2616. Mechanics 2. Introduction to dynamics of solids, study of various types of motion, Newton's second law, work and energy, impulse and momentum. Three hours lecture per week. Prereq.: MET 1515 "C" or better. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Vector Mechanics for Engineers: Statics and Dynamics, 12th Edition	Beer, Johnson, Mazurek	978-1-259-63809-1

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	CH 6	Trusses	
8/31	CH 6	Frames and Machines	
9/7	CH 8	Friction	
9/14	CH 8	Wedges and Screws	
9/21	CH 11	Kinematics of Particles	
9/28	CH 11	Rectilinear Motion	
10/5	CH 11	Graphical Methods	
10/12	CH 11	Curvilinear Motion	
10/19	CH 12	Kinetics of Particles	
10/26	CH 12	Work and Energy, Power	
11/2	CH 13	Conservation of Energy	
11/9	CH 13	Impulse and Momentum	
11/16	CH 13	Impact	
11/23	CH 13		

11/30	CH Review	Final Exam Review
12/7	All Chapters	Final Exam

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.