MET 212 Syllabus Fall 2026 Edison State Community College

Week			Chapter	Review	Assignment DUE DATE !	Test	Quiz
1	Wednesday	8/26/2026	Intro	Intro			???
			1 - Basic Concepts	Stress Strain E G etc.			???
2	Wednesday	9/2/2026	2 - Design properties of materials		due Ch 1 - 3,6,16,19,29,37,54,58,61,66		???
			Metals / Nonmetals / designs				???
3	Wednesday	9/9/2026	3 - Direct stress, deformation, design		due Ch 2 - 1,2,14,17,19,20,23,28,29,35,69 due Ch 3 - 3,7,11,15,120,127,142,143		???
4	Wednesday	9/16/2026	4 - Direct / Torsional shear stress		due Ch 3 - 25,27,45,48,49,63,71		???
							???
5	Wednesday	9/23/2026	5 - Shearing forces		due Ch 4 - 4,5,6,19,30,47,61,65,66,71,73,84,85bonus		???
			5 - Bending moments				
6	Wednesday	9/30/2026	6- Centroids		due Ch 5 - 3,9,21,27,33,65,79	EXAM 1	???
			6 - Moments of inertia				
7	Wednesday	10/7/2026	7 - Stresses in bending		due Ch 6 - 3,5,9,18,23,24,31		???
							???
8	Wednesday	10/14/2026	8 - Shear stresses in beams		due Ch 7 - 3,9,17,23,68,69 and 105 bonus		???
							???
9	Wednesday	10/21/2026	9 - Deflection of beams		due Ch 8 - 3,7,12,23,24,29,73 bonus Ch10 - 1		???
							???
10	Wednesday	10/28/2026	10 - Combined stresses		due Ch 9 - 1,2,3,7,9,15,17,62		???
			Design of beams			EXAM 2	???
11	Wednesday	11/4/2026	11 - Columns		due Ch 10 - 1,19,22,27,31		???
							???
12	Wednesday	11/11/2026	12 - Pressure Vessels		due Ch 11 - 1,3,5,9,15,19,22 and 17 bonus		
13	Wednesday	11/18/2026	13 - Connections		due Ch 12 - 3,4,7,9,15,19,21		
14	Wednesday	11/25/2026	13 - Connections			PROJECT DUE	
					NO CLASS - THANKSGIVING?		
15	Wednesday	12/2/2026	Review / make up		due Ch 13 - 1,3,5,7,8		
			all	for final (after Exam 3)		EXAM 3	

(subject to changes as semester permits) **Final - 12/9/2026 Wed at 5:30 pm**

MET 212S
Applied Strength of Materials
Edison State Community College
Fall 2026

Instructor Thomas Looker
B.S. MET Purdue University, 1990, M.S. Engineering Univ Toledo , 2009
Phone (937) - 778 - 7943 cell 937 419 0602

Class hours **W 5:30 - 8:15pm rm 458**
Office hours Mon 3:30 - 5:30pm Tues/Thur 9:45 - 10:30 am
Wed 11:00-12:30 and 4:30 - 5:30 pm or by appt

tlooker@edisonohio.edu

Grading

Homework	30%
Exams (total of approx. 3)	30%
Project	10%
Final (comprehensive)	20%
Participation & Quiz's	10%
total	100%

Grading Scale
90-100 A
80-89 B
70-79 C
60-69 D
59 and below F

Homework

Must be 8 - 1/2 by 11 inch paper with NO tearoffs
On time (no late will be accepted without prior approval)
(1 free late homework coupon per semester) other late will be max 50% of grade
Name and date and problem numbers clearly visible
Answer to be given in box format with all solution steps shown on paper
Partial credit will be given for correct steps even without correct answer
Copying from one another will result in grade of 0%
Pages stapled together and orderly (better grade for neat papers)

Dates to remember

9/7/2026 Labor day - no class

11/26-29/2026 Thanksgiving no class

12/9/2026 Last day of classes

12/9/2026 FINAL EXAM

Textbook Applied Strength of Materials 7th Edition
Robert L Mott

Chapters 1 - 16 Main text

3 tests at roughly 5 chapters each

Edison State Fall 2026 MET 212 Policy Statements

Regular attendance is extremely important in order that students may benefit from supplementary material presented in class and from class discussions. Further, those who miss class or do not attend, typically are those needing the most help during the classes that they do attend. This situation will not be acceptable to me or to those students who attend every lecture. If a student must miss a class, the student is responsible for checking with a classmate in order to determine what material was covered in his or her absence. The instructor will provide any handouts that were missed, but do not expect the missed class to be reviewed. Students who miss class are responsible for doing the exercises that were completed during the missed class/classes.

Students who miss examinations are responsible for contacting the instructor to schedule the make up examination. Make up examinations must be completed before the next class meeting. I subscribe to the philosophy that education is a two-way street. It's not just my responsibility to teach, but it is also your responsibility to learn. Therefore, I expect that you will do the reading assignments prior to class and come to class prepared to do class exercises, ask questions and enter into discussions. Academic dishonesty in any form will not be tolerated. Copying homework from other individuals will result in receiving no credit for the assignment. Any additional violation will result in a failing grade for the course.

Edison State Community College is committed to providing an environment respectful of students' beliefs. Students are permitted to be absent for up to 3 days each semester based on their faith, religion, or spiritual belief system with no academic penalty. Students must complete the Testing Your Faith Act Accommodations Form, https://www.edisonohio.edu/Registration-and-Records/ and provide a copy to their individual faculty within 14 days from the start of the course. The entire policy can be found in the student handbook at http://stage.edisonohio.edu/digipub/StudentHandbook/index.html.

Student Wellness Center

College is stressful! Feeling burnt out, anxious, frustrated? When challenges arise, it's helpful to have someone to talk to. We have partnerships established with many local mental health providers and can connect you with area resources.

The Student Wellness Center helps students navigate obstacles which might cause issues or create a sense of distress during your school year. Edison State has built a network of health professionals to support students. With these partnerships, the Student Wellness Center can assist students who need support in areas such as:

- o Recovery and Counseling referral
- o Housing
- o Food
- o Physical well-being

Information and education are also provided on the topics of:

- o Alcohol and drug abuse and prevention
- o Sexual assault prevention and awareness
- o Building healthy relationships
- o Inclusion and belonging
- o Survivor support
- o Self-care
- o Anti-Hazing

If you are struggling and need to speak with someone in person, please reach out to Velina Bogart, Coordinator of Student Wellness, at vbogart@edisonohio.edu, 937-778-7854, Room 193 (next door to the Security Office).

Walk in hours on campus are Tuesday, Wednesday, Thursday, 8am-5pm. Hours may vary according to the college schedule or events. You may schedule an appointment by clicking here.

If this is a medical emergency, please call 911. If this is a mental health emergency, please call 988.

Please note that the Charger Station Food Pantry has been relocated to Room 060 (next to the cafeteria).