North Central State College

MASTER SYLLABUS	2025-2026

A. Academic Division: Engineering Technology, Business & Criminal Justice Division

B. Discipline: Mechanical Engineering Technology

C. Course Number and Title: MECT2335 Engineering Statics

D. Assistant Dean: Brooke Miller, M.B.A.

E. Credit Hours: 3
Lecture: 3 hours

F. Prerequisites: MATH 1150, PHYS1110c

G. Last Course/Curriculum Revision Date: Fall 2025 Origin date: 01/25/2021

H. Textbook(s) Title:

Mastering Engineering with Pearson eText for Engineering Mechanics: Statics & Dynamics
- *Authors: Hibbeler*
- *Copyright Year: 2022*
- *Edition: 15th Edition*
- *ISBN: 9780134867267 – Multi-Term Access*

I. Workbook(s) and/or Lab Manual: None

J. Course Description: A problem based course utilizing calculus in dealing with bodies at rest; it lays the necessary groundwork for further study in the design and analysis of structures and machines. Emphasis is placed upon the importance of the ability to draw free body diagrams used in solving problems.

K. College-Wide Learning Outcomes:

College-Wide Learning Outcome	Assessments - - How it is met & When it is met
Communication – Written	
Communication – Speech	
Intercultural Knowledge and Competence	
Critical Thinking	
Information Literacy	
Quantitative Literacy	

North Central State College
SYLLABUS ADDENDUM

Academic Division:	Business, Industry, and Technology	**Discipline:**	Mechanical Engineering Technology
Course Coordinator:			
Course Number:	MECT 2335-CN1	**Course Title:**	Engineering Statics
Semester / Session:	Fall 2025	**Start / End Date:**	08/11/2025 – 12/12/2025

Instructor Information

Name:	Md Saiful Islam	**Credentials:**	PhD, MSc, and BSc
Phone Number:	419-755-4717	**E-Mail Address:**	sislam@ncstatecollege.edu
Office Location:	Kehoe 234	**Office Hours:**	Thursday: 12:00PM - 3:00PM and Friday 10:00AM - 12:00PM

I. Topical Timeline (Subject to Change):

Weeks	Topic	Assignment	Due Date
1-2	Chapter 1: Introduction, Chapter 2: Principles of Statics	Quiz-1	08/21/2025
2-3	Chapter 3: Resultants of Coplanar Force Systems	Quiz-2 Home Work	09/04/2025
3-4	Chapter 4: Equilibrium of Coplanar Force Systems		
5-6-7	Chapter 5: Analysis of Structures	Quiz-3	09/18/2025
8	Contents covered in Weeks 1 to 7	Midterm Exam	10/02/2025
9	Fall Break - No Class		10/6/2025 – 10/10/2025
10-11	Chapter 6: Friction	Quiz-4 Home Work	11/06/2025
12-13-14	Chapter 7: Centroids and Centers of Gravity		
15-16	Chapter 8: Area Moments of Inertia	Quiz-5	11/25/2025
17	Review		
18	**Final Exam**		12/11/2025
NOTE: THIS IS A TENTATIVE SCHEDULE. ASSIGNMENTS AND DUE DATES MAY BE CHANGED AT THE DISCRETION OF THE INSTRUCTOR.			

II. Course Assignments:

Quizzes will be in class. Missed quizzes will not be made up and will result in a "0" score for the quiz.

Exams: If you must miss an exam (for any legitimate reason, e.g.: illness), please notify me as early as possible. No makeup examination permitted if instructor is not notified before the day of the scheduled examination.

Course Number: MECT 2335-CN1 **Course Title:** Engineering Statics
Semester / Session: Fall 2025 **Start / End Date:** 8/11/2025 – 12/12/2025

III. Grading and Testing Guidelines:

Final Grade Calculation

Activity	Qty	Points	Percentage
Quizzes/Home Works	5	500	30
Mid Term Exam	1	100	30
Final Exam	1	100	40

IV. Examination Policy:

1. The reasons for which a student will be excused from taking an examination:
   a. Hospitalization (with documented verification)
   b. Death in the immediate family (with documented verification)
   c. Personal illness or illness in immediate family - (doctor's excuse required).

2. A student who misses an examination for any reason is responsible for:
   a. Notifying the instructor before the day of the examination.
   b. Set up a new date for the examination through email from instructor.

3. No makeup opportunity will be given for absences of quizzes.

V. Class Attendance and Homework Make-Up Policy:

Attendance is required per NCSC policy. Class Absentees: No merit or demerit derived from attendance, unless it prevents you from taking a quiz or examination.

VI. Classroom Expectations:

Questions in class: Any questions regarding the material are welcome during the class. If something is not clear to you, it probably is not clear to others. So, ask questions. Your question not only helps yourself, but it also helps others. If your question is too specific and its answer is too long, I may invite you to ask me later in my office.

As a future professional in your field, **you will be expected to conduct yourself as a professional in this course in ALL work and communications** - be it assignments, discussions, Canvas Inbox, emails etc.

This includes but is not limited to:

- **Being respectful of classmates' opinions, work and comments**
- **Being respectful in communications with the instructor**
- **Being respectful of diversity (Note: Offensive "jokes", slurs or hate speech will NOT be tolerated)**
- **Using Non-Profane, Appropriate Language**

Failure to conduct yourself as a professional and meet standards above in this course will result in the following consequences in this course:

- **1st Instance** = Written warning from the instructor documenting issue (No points deductions)
- **2nd offense** = Mandatory meeting with the instructor and or Department Chair or Division Dean (Related assignment/Participation subject to Point Deductions)
- **3rd offense** = College Disciplinary procedures filed with the NC State Judicial Committee as a violation of the Student Code of Conduct. **(Course Grade subject to F)**

Extreme or repeated unprofessional behavior will result in initiating college disciplinary procedures as outlined in the NC State Student Code of Conduct. NCSC Disciplinary hearings can result in a variety of consequences, including and up to suspension or being expelled from the college.

Academic Misconduct such as Plagiarism, Cheating, or Academic dishonesty are not tolerated in this class.

L. Course Outcomes and Assessment Methods:

Upon successful completion of this course, the student shall:

Outcomes	Assessments – How it is met & When it is met
1. Solve for forces in all planar structures for machines at rest, or in constant motion, with due regard to friction.	Problem based quizzes, homework and exams
2. Solve for forces in selected space frames and trusses.	Problem based quizzes, homework and exams
3. Analyze and compute centroids and moment of inertia	Problem based quizzes, homework and exams

M. Recommended Grading Scale:

NUMERIC	GRADE	POINTS	DEFINITION
93–100	A	4.00	Superior
90–92	A-	3.67	Superior
87–89	B+	3.33	Above Average
83–86	B	3.00	Above Average
80–82	B-	2.67	Above Average
77–79	C+	2.33	Average
73–76	C	2.00	Average
70-72	C-	1.67	Below Average
67–69	D+	1.33	Below Average
63-66	D	1.00	Below Average
60-62	D-	0.67	Poor
00-59	F	0.00	Failure

N. College Procedures/Policies:

North Central State College believes that every student is a valued and equal member of the community.* Every student brings different experiences to the College, and all are important in enriching academic life and developing greater understanding and appreciation of one another. Therefore, NC State College creates an inclusive culture in which students feel comfortable sharing their experiences. Discrimination and prejudice have no place on the campus, and the College takes any complaint in this regard seriously. Students encountering aspects of the instruction that result in barriers to their sense of being included and respected should contact the instructor, assistant dean, or dean without fear of reprisal.

* *Inclusive of race, color, religion, gender, gender identity or expression, national origin (ancestry), military status (past, present or future), disability, age (40 years or older), status as a parent during pregnancy and immediately after the birth of a child, status as a parent of a young child, status as a foster parent, genetic information, or sexual orientation*

Important information regarding College Procedures and Policies can be found on the syllabus supplement located at https://ncstatecollege.edu/documents/President/PoliciesProcedures/PolicyManual/Final%20PDFs/14-081b.pdf