

A. <u>Academic Division</u>: Engineering Technology, Business & Criminal Justice Division

B. <u>Discipline</u>: Mechanical Engineering

C. <u>Course Number and Title</u>: MECT2330 Statics

D. <u>Assistant Dean</u>: Brooke Miller, M.B.A.

E. Credit Hours: 3

Lecture: 2 hours Laboratory: 2 hours

F. Prerequisites: PHYS1110c

G. <u>Last Course/Curriculum Revision Date: Fall 2025</u> Origin date: 07/28/2011

H. <u>Textbook(s) Title</u>:

Applied Statics & Strength of Materials

Author: LimbrunnerCopyright Year: 2022

• Edition: 7th

• ISBN: 9780135716762

- I. Workbook(s) and/or Lab Manual: None; Class Handouts will be distributed
- J. <u>Course Description</u>: A problem course 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. (TAG # OET007)
- K. <u>College-Wide Learning Outcomes:</u>

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	

L. <u>Course Outcomes and Assessment Methods</u>:

Upon successful completion of this course, the student shall:



Academic Division:	BIT	Discipline:	Engineering Technology
Course Coordinator:			
Course Number:	MECT 2330-900	Course Title:	Statics
Semester / Session:	Fall 2025	Start / End Date:	08/11/2025 - 12/12/2025
Instructor Informat			2.555.0200
Name: Kylie l	Bittner	Phone Number: 419	9-566-9398
		E-Mail Address: lbi	ttner@ncstatecollege.edu
Office Location: _ n/a		Office Hours: By	apt.

I. <u>Topical Timeline (Subject to Change)</u>:

Class	Week of:	Торіс	Chapter/section	Homework
1	08/12/2025	Chapter 1: Introduction	1.1 – 1.6	Run, Hide, Fight Quiz
2	08/19/2025	Quiz #1	1.1 - 1.6	Chapter 1 Homework
3	08/26/2025	Chapter 2: Principles of Statics	2.1 – 2.8	Chantar 2 Hamawark
4	09/02/2025	Quiz #2	2.1 – 2.8	Chapter 2 Homework
5	09/09/2025	Chapter 3: Resultants of Coplanar Force Systems	3.1 – 3.7	Chantar 2 Hamawark
6	09/16/2025	Quiz #3	3.1 – 3.7	Chapter 3 Homework
7	09/23/2025	Chapter 4: Equilibrium of Coplanar Force Systems	4.1 – 4.6	Chapter 4 Homework
8	09/30/2025	Midterm	1.1 - 4.6	Midterm Exam
9	10/07/2025	Fall Break – No Class		
10	10/14/2025	Chapter 5: Analysis of Structures	5.1 – 5.6	Chapter 5 Homework
11	10/21/2025	Quiz #4	5.1 – 5.6	Chapter 3 Homework
12	10/28/2025	Chapter 6: Friction	6.1 – 6.7	Chapter 6 Homework
13	11/04/2025	Quiz #5	6.1 - 6.7	Chapter 6 nomework
14	11/11/2025	Chapter 7: Centroids and Centers of Gravity	7.1 – 7.4	Chanter 7 Hemowerk
15	11/18/2025	Quiz #6	7.1 – 7.4	Chapter 7 Homework
16	11/25/2025	Chapter 8: Area Moments of Inertia	8.1 – 8.6	Chapter 8 Homework
17	12/02/2025	Final Exam Review		
18	12/09/2025	Final Exam	All Sections	Final Exam

II. <u>Course Assignments</u>:

- 1. Exams 60%
- 2. Quizzes 15%
- 3. Homework 25%

III. <u>Grading and Testing Guidelines</u>:

a. See Canvas

Course Number:	Course Title:	
Semester / Session:	Start / End Date:	
		

IV. <u>Examination Policy</u>:

- 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 contacting the instructor prior to the exam.
- 3. No makeup opportunity will be given for absences of quizzes.

V. <u>Class Attendance and Homework Make-Up Policy</u>:

- 1. Class attendance is necessary to acquire the knowledge required to meet the course objectives
- 2. Students are responsible for completing all homework assignments on time, 10% penalty per day will be applied for late work

VI. <u>Classroom Expectations</u>:

Actively participate in class and with team members during group work.

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

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	В	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. <u>College Procedures/Policies</u>:

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

 $\frac{https://ncstatecollege.edu/documents/President/PoliciesProcedures/PolicyManual/Final\%20PDFs/14-081b.pdf$