

**ENGR 2100—Fundamentals of Engineering Mechanics
Spring Term 2017**

TRIGGER WARNING: physics, trigonometry, algebra, vectors, force, torque, work, energy, stress, strain, mass, friction, normal, tangential, acceleration, velocity, quiz, grade, bad puns

Prerequisite: PHYS 1600, Engineering Physics I

Required Text: The textbook required for ENGR 2100, Fundamentals of Engineering Mechanics, during Spring Semester 2015 will be: David A. Cicci, *Fundamentals of Engineering Mechanics: Spring Semester 2017*. The textbook is NOT available at any of the campus bookstores. It is ONLY available at: Sofy Copy & Fax Service, 145 E Magnolia Avenue (located inside Magnolia Plaza), ☎: (334) 821-4657. **YOU SHOULD PURCHASE THIS TEXTBOOK PRIOR TO THE BEGINNING OF CLASSES AS YOU WILL BE EXPECTED TO HAVE REVIEWED THE MATERIAL CONTAINED IN MODULES #1 AND #2 PRIOR TO THE FIRST CLASS MEETING ON 11 JANUARY.**

Instructor: Prof. Peter Schwartz
2322 Shelby Center
844-4121
schwartz@auburn.edu
Office hours: MWF 10:00-11:00 and TR 11:00-12:30

Attendance: You are strongly encouraged to read each Module **prior** to coming to class. Lectures discussing the material contained in each Module will be on Wednesdays and Fridays and recitation/problem sessions will be held on Mondays, with the exception of Martin Luther King Day (1/16). Attendance is not **required**, but is **very strongly urged**. You are responsible for all material and announcements presented in class and/or posted on CANVAS.

Course Objective: To provide the student in a non-mechanics engineering curriculum with the basic fundamentals of engineering mechanics.

Course Outcome: The ability to identify, formulate, and solve engineering problems. [ABET outcome 3(e)]

Assessment: **THERE WILL BE NO EXAMINATIONS NOR WILL THERE BE A COMPREHENSIVE FINAL EXAMINATION.** Your **entire** grade will be determined by your performance on the **weekly** in-class quizzes given every Wednesday (except for 1/11) during the last 20 minutes of the class. You will be expected to take **every** quiz at the scheduled time. **NO MAKE-UP QUIZZES WILL BE GIVEN.**

Homework: You are expected to be able to solve the six (6) problems at the end of each module. Homework will NOT be collected or graded, but the problems will be the basis for most, if not all, in-class quizzes given during the semester.

Academic Integrity: The highest standards of academic integrity are expected. You are free and encouraged to work with one another to solve the homework problems, but the quizzes are expected to be your **individual** effort. Copying another's work or allowing your work to be copied is an academic integrity violation and will result in the grade of "zero" being recorded for that quiz. Consult the *Tiger Cub*, or speak to me if there are any questions.

Special Accommodations: Students requiring special accommodations should contact the Director of the Program for Students with Disabilities, located in 1232 Haley Center.



Grading Policy¹: The following numerical scale² (NS) will be used to determine your course grade:
NS = A (100-90); B (89-80); C (79-65); D (64-50); F (< 50).

¹ I reserve the right to **expand** any or all of the grade ranges indicated.

² NS = (Quiz grade **average**) x 10 rounded (by Excel®) to the nearest integer.

Academic Contingency: If normal class activities are disrupted due to an emergency and/or crisis situation (e.g., flu outbreak, hurricane, plague of locusts, Martian invasion, World War Z, dogs sleeping with cats, etc.), the syllabus will be modified to allow completion of the course, if possible. If this occurs, a revision to the syllabus and/or course assignments will replace the original materials.

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SCHEDULE/SYLLABUS

WEEKDAY	DATE	MODULE#	QUIZ
Wednesday	1/11	Module #3 and Module #4 ³	None
Friday	1/13	Module #4 and Module #5	None
Monday	1/16	 NO CLASS	None
Wednesday	1/18	Module #6	Quiz #1 (3,5)
Friday	1/20	Module #7	None
Monday	1/23	Recitation	None
Wednesday	1/25	Module #8	Quiz #2 (6,7)
Friday	1/27	Module #8	None
Monday	1/30	Recitation	None
Wednesday	2/1	Module #9 (15 th Class Day-last day to drop w/o grade)	Quiz #3 (8)
Friday	2/3	Module #11 and Module #12	None
Monday	2/6	Recitation	None
Wednesday	2/8	Module #14	Quiz #4 (9,11,12)
Friday	2/10	Module #15	None
Monday	2/13	Recitation	None
Wednesday	2/15	Module #17	Quiz #5 (14, 15)
Friday	2/17	Module #18 & Module #19	None
Monday	2/20	Recitation	None
Wednesday	2/22	Module #20	Quiz #6 (17,18,19)
Friday	2/24	Module #21	None
Monday	2/27	Recitation	None
Wednesday	3/1	Module #22	Quiz #7 (20,21)
Friday	3/3	Module #24	None
Monday	3/6	Recitation	None
Wednesday	3/8	Module #25 & Module #26	Quiz #8 (22,24)
Friday	3/10	Module #27	None
Monday	3/13	 NO CLASS	None
Wednesday	3/15	SPRING BREAK—NO CLASS	None
Friday	3/17	SPRING BREAK—NO CLASS	None
Monday	3/20	Recitation	None
Wednesday	3/22	Module #28	Quiz #9 (25,26,27)
Friday	3/24	Module #29	None
Monday	3/27	Recitation	None
Wednesday	3/29	Module #30	Quiz #10 (28,29)
Friday	3/31	Module #31 (Last day to withdraw with a "W" grade)	None

³ You are expected to have read Modules #1 and #2 **prior** to the first class. The topics contained in these modules (vectors and vector operations) are considered review material and assumed to have been covered in your earlier mathematics (1620, 1627, 2660) and/or physics courses.

WEEKDAY	DATE	MODULE #	QUIZ
Monday	4/3	Recitation	None
Wednesday	4/5	Module #32	Quiz #11(30, 31)
Friday	4/7	Module #33	None
Monday	4/10	Recitation	None
Wednesday	4/12	Module #33	Quiz #12 (32)
Friday	4/14	Module #35	None
Monday	4/17	Recitation	None
Wednesday	4/19	Module #38	Quiz #13 (33,35)
Friday	4/21	Module #40	None
Monday	4/23	Recitation	None
Wednesday	4/25	Quiz Only	Quiz #14 (38,40)
Friday	4/28	NO CLASS	None

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