

FOffered in fall semester only.

¹Rhet 105 is taken the first or second semester of the first year, according to student's UIN. Rhet 105 is taken in the fall by students with even UINs and in the spring by students with odd UINs. ME 170 is taken the other semester (in the fall by students with odd UINs and in the spring by students with even UINs).

²A total of four courses must be taken for grades to fulfill general education requirements. At least two of these must be must be Humanities and the Arts courses and the other two must be Social and Behavioral Science courses. Additionally, of these four courses, at least one must be a Western, at least one must be a Non-Western, and at least one must be a U.S. Minority cultures course. Students must also complete the Language Other Than English requirement (LOTE). 1st and 2nd level language courses can count as free electives and be taken CR/NC, but 3rd level of languages courses must be taken for a grade. See College of Engineering and University web sites for more information and course lists.

³ME 470 requires credit or concurrent registration in all required TAM core courses by number (e.g. TAM 470, TAM 412, etc.). Concurrent registration is limited to 2 courses; however, may limit projects you meet the prerequisites for. ME 470 is taken in the fall by students with odd UINs and in the spring by students with even UINs.

⁴Secondary Field Elective—12 hr of coherent course work in mechanics or closely related field. See departmental list online at the MechSE departmental website or propose an alternate set of courses for approval from the MechSE Undergraduate Programs Office.

⁵[Optional] Three hours of secondary field elective credit can be obtained if ME 199 DES or SAE (1 hr) is taken for three consecutive semesters starting no later than the third semester for incoming first-year students or second semester for incoming transfer students. A final report must be submitted to the Undergraduate Programs office at completion per guidelines set by the course instructor. There is a 6 hour maximum for secondary field elective credit obtained from independent study and/or SAE type credits.

SOffered in spring semester only.

CURRICULUM IN ENGINEERING MECHANICS

The curriculum requires 128 hours for graduation.

Course Rubric	Course Name	Credit	TGPA ⁶	2.25 GPA ⁷
Orientation and P	rofessional Development			
ENG 100	Engineering Orientation	1		
ME 290	Seminar	0		
TAM 195	Mechanics in the Modern World	1		
Foundational Mat	hematics and Science			
CHEM 102	General Chemistry I	3		\boxtimes
CHEM 103	General Chemistry Lab I	1		\boxtimes
CHEM 104	General Chemistry II	3		\boxtimes
CHEM 105	General Chemistry Lab II	11		\boxtimes
MATH 221	Calculus I	4		\boxtimes
MATH 231	Calculus II	3		
MATH 241	Calculus III	4		\boxtimes
MATH 257	Linear Algebra w/Computational Applications	3		\boxtimes
MATH 441	Differential Equations	3	\boxtimes	
MATH 442	Intro Partial Differential Equations	3	\boxtimes	
PHYS 211	University Physics: Mechanics	4		
PHYS 212	University Physics: Elec & Mag	4	<u> </u>	
PHYS 213	University Physics: Thermal Physics	2		
PHYS 214	University Physics: Quantum Physics anics Technical Core	2	\boxtimes	\boxtimes
CS 101	Intro Computing: Engrg & Sci	3	П	N
ECE 205	Elec & Electronic Circuits	3	<u>⊠</u>	
ME 170	Computer-Aided Design	3		\boxtimes
ME 200	Thermodynamics	3		\boxtimes
ME 470	Senior Design Project	3	\boxtimes	
TAM 211	Statics	3	\boxtimes	\boxtimes
TAM 212	Introductory Dynamics	3	\boxtimes	\boxtimes
TAM 251	Introductory Solid Mechanics	3	\boxtimes	\boxtimes
TAM 252	Solid Mechanics Design	1	\boxtimes	\boxtimes
TAM 270	Design for Manufacturability	3	$oxed{\boxtimes}$	
TAM 324	Behavior of Materials	4		
TAM 335	Introductory Fluid Mechanics	4		
	•			
TAM 412	Intermediate Dynamics	4		
TAM 445	Continuum Mechanics	4	\boxtimes	
TAM 470	Computational Mechanics	3		
Electives and com	-			
RHET 105 ¹	Principles of Composition	4		
Secondary	Chosen from departmentally approved list or	12	\boxtimes	
field	custom built with advisor approval, courses ofter			
electives ⁴	in the TGPA calculation (see MechSE TGPA list			
General education	<u></u>	12		
Free electives		11		

^{6.} To remain in good academic standing and to graduate from the Engineering Mechanics (EM) curriculum, a student must have a technical grade-point average (TGPA) of at least 2.00. Courses that contribute to TGPA are the courses marked with an "X" in the TGPA column.

^{7.} To register for third-year or 300-level Engineering Mechanics (TAM) courses, students are required to have a grade-point average (GPA) of 2.25 or above in courses marked with an "X" taken from the 2.25 GPA column.