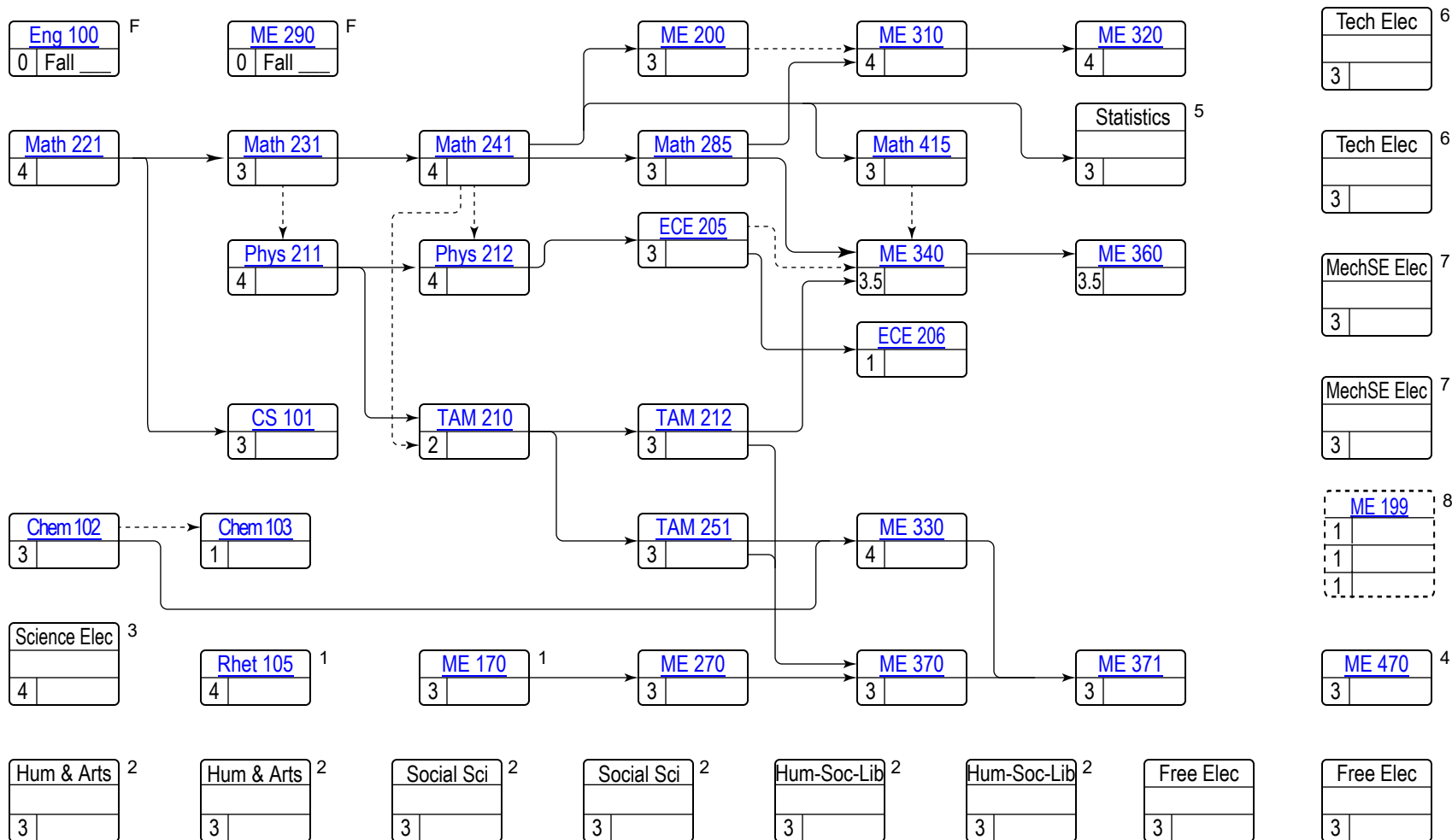


→ Prerequisite

----- Corequisite

Mechanical Engineering Flowsheet



04/05/2018

Name _____ UIN _____

Western course Non-Western course U.S. Minority course LOTE

^FOffered in Fall semester only.

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

²A total of 6 courses to fulfill general education requirements. Of these, at least one must be a Western, at least one a Non-Western cultures course. For students entering after SU18, at least one a U.S. Minority cultures course is also required. Among the Social Sciences courses, ECON 102 or 103 is required for Mechanical Engineering majors. At least 2 Humanities courses and at least 2 Social Sciences courses must be taken for grades. Students must also complete the Language Other Than English requirement (LOTE). 1st and 2nd level language courses can count as Liberal Education electives and be taken CR/NC. See College of Engineering and University web sites for more information and course lists.

³Choose from Chem 104/105, MCB 150, or Phys 213/214. If MCB 150 is taken, then MCB 151 is also recommended.

⁴ME 470 requires credit or concurrent registration in all ME courses that are required by number (e.g. ME 360, ME 371). Concurrent registration is limited to 2 courses. ME 470 is taken in the fall by students with even UIN's and in spring by students with odd UIN's.

⁵Choose from IE 300 or Stat 400/Math 463.

⁶Technical electives are generally 400-level courses in engineering, physics, chemistry, and mathematics. Some restrictions apply to special-topics and individual-study courses. One Professional elective of no more than 3 hours can replace one Technical elective. See the complete list of Technical, Professional, and MechSE electives online at the MechSE departmental website.

⁷MechSE electives are ME and TAM courses on the MechSE departmental approved list (online).

⁸[Optional] Three hours of MechSE or technical elective credit can be obtained if ME 199 DES or SAE (1 hr) is taken for three consecutive semesters starting no later than the first semester of the sophomore year or second semester for transfer students. A final report must be submitted to the Undergraduate Programs office at completion.

CURRICULUM IN MECHANICAL ENGINEERING

The curriculum requires 128 hours for graduation.

Course Rubric	Course Name	Credit	TGPA ⁹	2.25 GPA ¹⁰
Orientation and Professional Development				
ENG 100	Engineering Orientation	0	<input type="checkbox"/>	<input type="checkbox"/>
ME 290	Seminar	0	<input type="checkbox"/>	<input type="checkbox"/>
Foundational Mathematics and Science				
CHEM 102	General Chemistry I	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CHEM 103	General Chemistry Lab I	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MATH 221	Calculus I	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MATH 231	Calculus II	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MATH 241	Calculus III	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MATH 285	Intro Differential Equations	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MATH 415	Applied Linear Algebra	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PHYS 211	University Physics: Mechanics	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PHYS 212	University Physics: Elec & Mag	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mechanical Engineering Technical Core				
CS 101	Intro Computing: Engrg & Sci	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ECE 205	Elec & Electronic Circuits	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ECE 206	Elec & Electronic Circuits Lab	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TAM 210	Introduction to Statics	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TAM 212	Introductory Dynamics	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TAM 251	Introductory Solid Mechanics	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ME 170	Computer-Aided Design	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ME 270	Design for Manufacturability	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ME 200	Thermodynamics	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ME 310	Fundamentals of Fluid Dynamics	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ME 320	Heat Transfer	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ME 330	Engineering Materials	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ME 340	Dynamics of Mechanical Systems	3.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ME 360	Signal Processing	3.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ME 370	Mechanical Design I	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ME 371	Mechanical Design II	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ME 470	Senior Design Project	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electives and composition				
RHET 105 ¹	Principles of Composition	4	<input type="checkbox"/>	<input type="checkbox"/>
Statistics Elective ⁵	IE 300, STAT 400 / MATH 463	3	<input type="checkbox"/>	<input type="checkbox"/>
Science Elective ³	CHEM 104/105, PHYS 213/214, MCB 150	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Technical electives ⁶	Chosen from MechSE approved list	6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MechSE electives ⁷	TAM and ME courses from MechSE approved list	6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
General education ²		18	<input type="checkbox"/>	<input type="checkbox"/>
Free electives		6	<input type="checkbox"/>	<input type="checkbox"/>

9. To remain in good academic standing and to graduate from the ME curriculum, a student must have a GPA of at least 2.00 in the courses marked with an "X"

10. To register for third-year Mechanical Engineering (ME) courses, students are required to have a grade-point average of 2.25 or above in the courses marked with an "X"