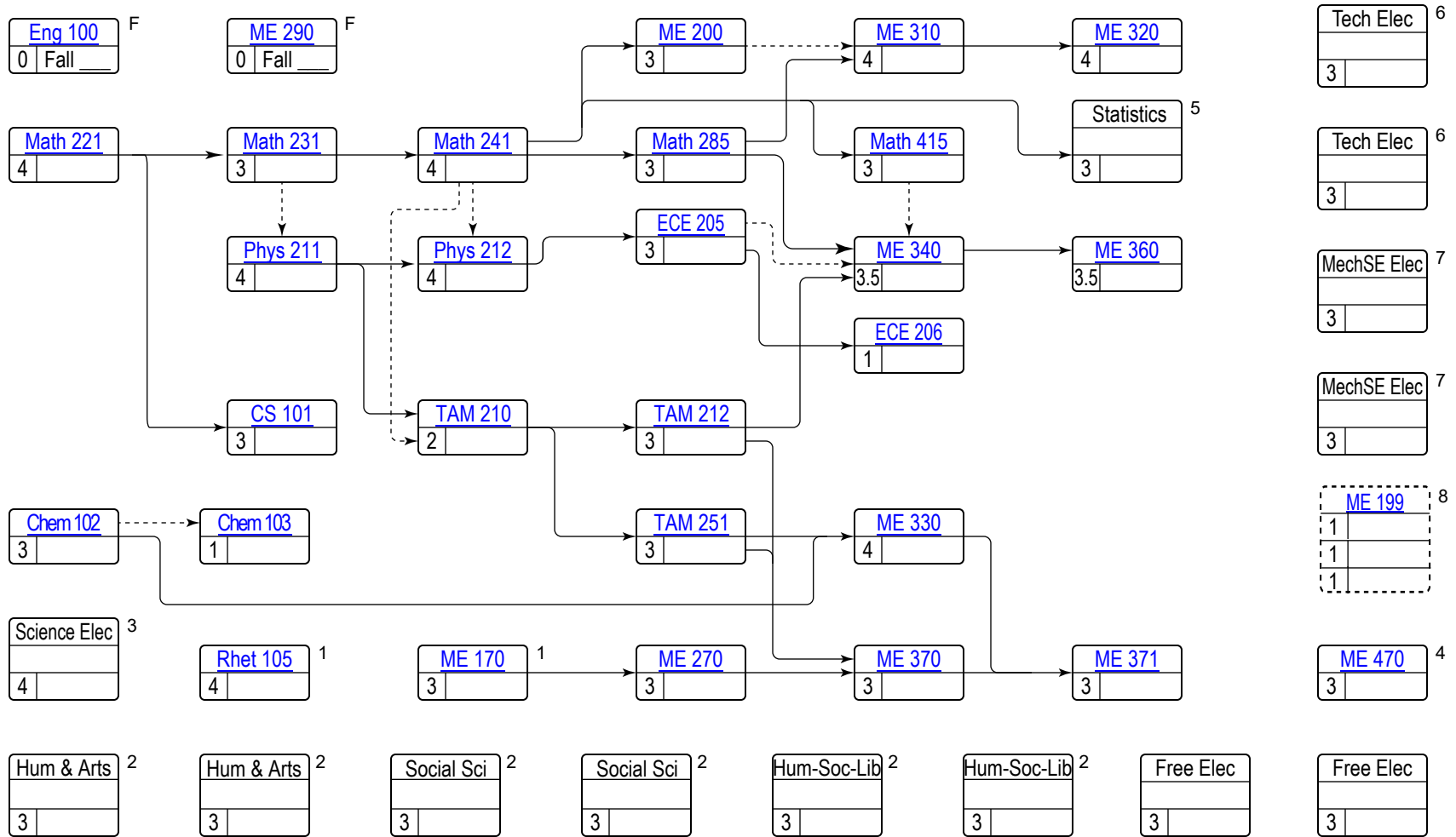


→ Prerequisite

----- Corequisite

Mechanical Engineering (ME) Flowsheet



03/01/2019

Name _____ UIN _____

Western² course Non-Western² course U.S. Minorities² course LOTE²

Find College of Engineering (CoE) degree requirement information at:
<https://wiki.illinois.edu/wiki/display/ugadvise/Degree+Requirements>

^FOffered in Fall semester only.

¹Rhet 105 is taken the fall by students with even UINs and spring by students with odd UINs in the first year. ME 170 is taken the other semester.

²A total of 18 hours is required to fulfill general education requirements. Of these hours, there is a 6 hour Humanities requirement and 6 hour Social Science requirement, the remaining 6 hours may be from the two preceding categories or the Liberal Education elective list provided by the CoE. For students entering after SU18, a Western (W), Non-Western (NW), and U.S. Minorities (US) cultures course is required. For students entering prior to SU18, a W and NW or US cultures course is required. Among the Social Science courses, ECON 102 or 103 is required for ME students. Students must also complete the university foreign language requirement by completing the 3rd level of a language other than English (LOTE).

³Choose from Chem 104/105, MCB 150 (151 recommended), or Phys 213/214.

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 UINs and in the spring by students with odd UINs.

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

⁶Technical electives are generally 400-level courses in engineering, physics, chemistry, and mathematics. One Professional elective of no more than 3 hours can replace a technical elective. See the complete list on the ME undergraduate program website:

<http://mechanical.illinois.edu/undergraduate/bs-mechanical-engineering>

⁷MechSE electives are most 400-level ME and TAM courses. See the list from 6.

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 third semester, or second semester for transfer students. A final report must be submitted to the MechSE Undergraduate Programs Office upon completion.

CURRICULUM IN MECHANICAL ENGINEERING

The curriculum requires 128 hours for graduation.

Course Rubric	Course Name	Credit	2.25 GPA ⁹	TGPA ¹⁰
Orientation and Professional Development				
ENG 100	Engineering Orientation	0	<input type="checkbox"/>	<input type="checkbox"/>
ME 290/390	Seminar	0	<input type="checkbox"/>	<input type="checkbox"/>
Foundational Mathematics and Science				
CHEM 102	General Chemistry I	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CHEM 103	General Chemistry Lab I	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MATH 221	Calculus I	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MATH 231	Calculus II	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MATH 241	Calculus III	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MATH 285	Intro Differential Equations	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MATH 415	Applied Linear Algebra	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PHYS 211	University Physics: Mechanics	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PHYS 212	University Physics: Elec & Mag	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Mechanical Engineering Technical Core				
CS 101	Intro Computing: Engrg & Sci	3	<input checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>
ME 270	Design for Manufacturability	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ME 200/300	Thermodynamics	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ME 310	Fundamentals of Fluid Dynamics	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ME 320	Heat Transfer	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ME 330	Engineering Materials	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ME 340	Dynamics of Mechanical Systems	3.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ME 360	Signal Processing	3.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ME 370	Mechanical Design I	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ME 371	Mechanical Design II	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ME 470	Senior Design Project	3	<input type="checkbox"/>	<input checked="" 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, MCB 150, PHYS 213/214	4	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> <input checked="" type="checkbox"/>
Technical electives ⁶	Chosen from MechSE approved list	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MechSE electives ⁷	TAM and ME courses from MechSE approved list	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>
General education ²		18	<input type="checkbox"/>	<input type="checkbox"/>
Free electives ¹¹		6	<input type="checkbox"/>	<input type="checkbox"/>

9. To register for third-year Mechanical Engineering (ME) courses, students are required to have a cumulative grade-point average (GPA) of at least 2.25 in the courses marked with an "X". See <http://catalog.illinois.edu/undergraduate/engineer/#TechnicalGPA> for more information.

10. To remain in good academic standing and to graduate from the ME curriculum, a student must have a cumulative GPA of at least 2.00 in the courses marked with an "X". See <http://catalog.illinois.edu/undergraduate/engineer/#TechnicalGPA> for more information.

11. Almost any course offered by the University, and most transfer courses, can be used for free electives. Some restrictions apply, visit <https://wiki.illinois.edu/wiki/display/ugadvise/Degree+Requirements#DegreeRequirements-FreeElectives> for more information.