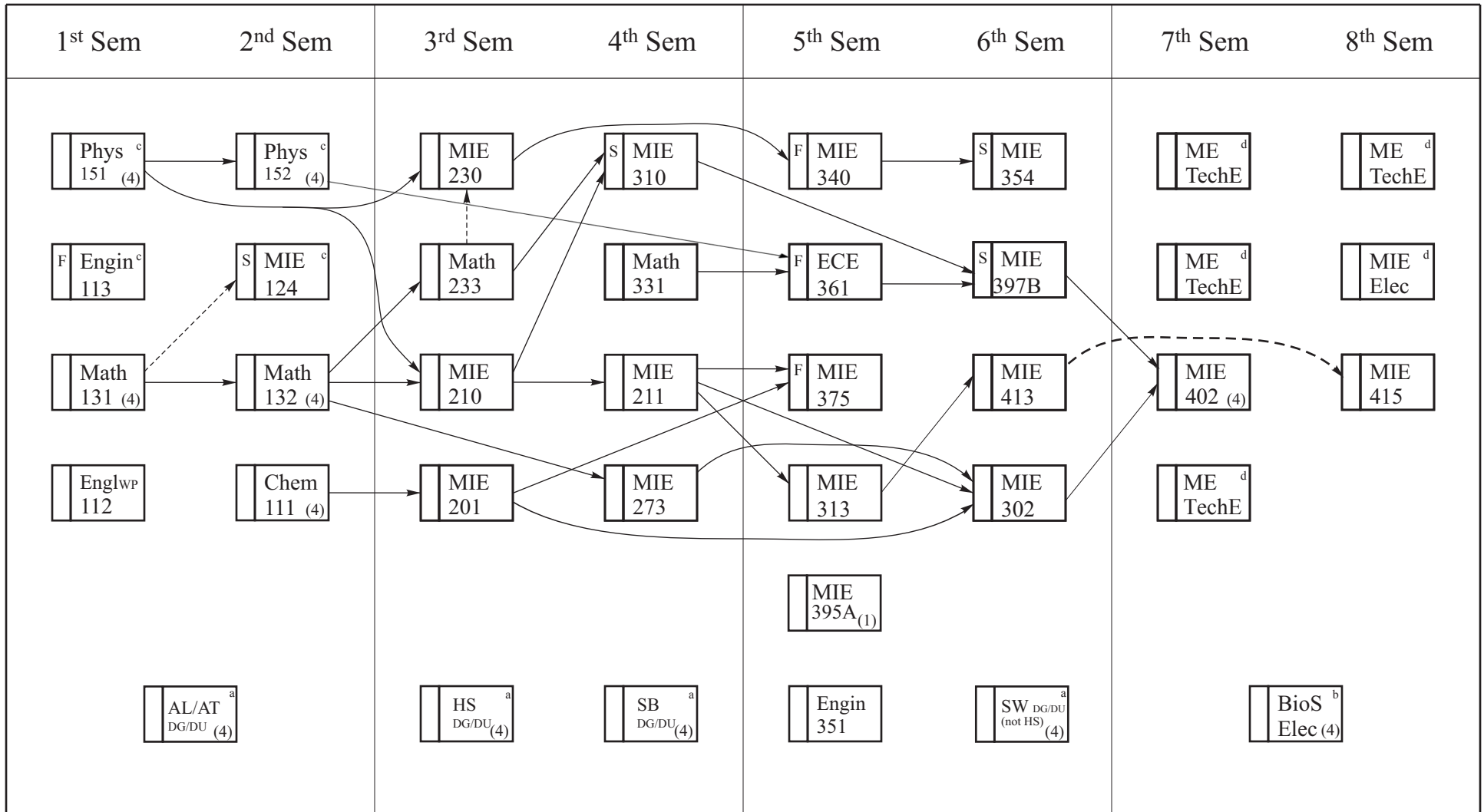


Mechanical and Industrial Engineering Department

MECHANICAL ENGINEERING CURRICULUM



If only offered fall (F) or spring (S)

F MIE a Note on reverse
401 (4) Credits, if other than 3

Prerequisite course
 Prerequisite that may be taken concurrently

Scheduling Note: Courses offered vary from year to year and from semester to semester. The sequence of courses shown is only a sample. Students will plan their individual programs after consulting the University Registration Materials and the MIE Department Registration Notes.

Scheduling Option: Students who do not enroll in MIE 302 in their 5th semester may choose to take MIE 313 instead and may take MIE 413 and MIE 415 in their 6th and 7th semesters, respectively.

Graduation Clearance: Both University and Department Cumulative GPAs of 2.0 are required for graduation.

Prerequisites: Not all prerequisites are shown. Consult SPIRE Course Descriptions for complete listings. Students must satisfy prerequisites or obtain instructor permission, irrespective of SPIRE enrollment.

Total Credits: 123
Revised 3/15/2018

ME Degree Program, Flowchart Notes

NOTE: The flowchart is not the official student record. It should be used in conjunction with your university transcript and your academic requirements report.

Notes: a. **Social World Requirement:** 4 COURSES, each 4 credits (one from each group)

- 1) AL or AT 3) HS
- 2) SB 4) AL, AT, SB, SI or I

Social World Diversity Requirement

One of the four Social World courses must have a global diversity designation (DG) and one must have a United States diversity designation (DU)

- b. **Biological Science Requirement:** Any 4 cr course having the Biological Science (BS) designation.
- c. **Alternative Courses:** An approved alternative exists to the "standard" course shown.
- d. **Mechanical Engineering Program Electives:** Students must take 4 ME Tech Elective courses and one MIE Elective course. Other upper level engineering courses, including courses in other engineering and related disciplines, may be acceptable as ME Tech Elective courses. MIE 353 is not considered a ME Tech Elective.

All MIE courses at or above the 300 level, including ME Tech Electives, are acceptable as the MIE Elective. Chem 112 and Math 235 also satisfy the MIE Elective requirement. Courses related to ME but taught in other Engineering or Science Departments, Math, or ISOM may be acceptable. Typically, electives are offered in only one semester and many are not offered every year; check SPIRE to see which courses are each semester.

See the registration notes for a listing of scheduled ME Tech Electives and examples of approved non-MIE Tech Electives.

ME COURSE TITLES AND NUMBERS

ENGIN 113	Introduction to Mechanical & Industrial Engineering
MIE 124	Computational Approaches to Engineering Problems (using MATLAB)
MIE 201	Introduction to Materials Science
MIE 210	Statics
MIE 211	Strength of Materials
MIE 230	Thermodynamics
MIE 273	Probability and Statistics for Engineers
MIE 302	ME Lab I
MIE 310	Dynamics
MIE 313	Design of Mechanical Components
MIE 340	Fluid Mechanics I
MIE 354	Heat Transfer
MIE 375	Manufacturing Processes
MIE 395A	Seminar, Engineering Professionalism
MIE 397B	System Dynamics
MIE 402	ME Lab II
MIE 413	Design of Mechanical Assemblies
MIE 415	Design of Mechanical Systems