MINNESOTA STATE UNIVERSITY, MANKATO MECHANICAL ENGINEERING PROGRAM

2024-2025 (FOUR-YEAR PLAN)

FRESHMAN FALL		FRESHMAN SPRING	
MATH 121 Calculus I CHEM 191 Chem. for Engineers ENG 101 English Comp. ME 101 Intro. to Engr.—ME ECON 201 or 202	4 3 4 2 3	MATH 122 Calculus II PHYS 221 Physics I CMST 102* ME 103 Computer Graph. Com. ME 201 Intro. to Prob. Solv. & Des. H/SS Elective	4 4 3 1 2 3
TOTAL	16	TOTAL	17
SOPHOMORE FALL		SOPHOMORE SPRING	
MATH 321 Differential Equations PHYS 222 Physics II PHYS 232 Physics II Lab ME 212 Statics EE 230 Circuits I EE 240 Circuits Lab ME 203 GD&T in Engr. Design	4 3 1 3 3 1 2	MATH 223 Calculus III ME 214 Dynamics ME 223 Mechanics of Materials ME 241 Thermodynamics ME 281 Computation Methods	4 3 3 3 2
TOTAL	17	TOTAL	15
JUNIOR FALL		JUNIOR SPRING	
ME 306 Material Science ME 321 Fluid Mechanics ME 341 Linear Systems ME 344 Instrumentation Science Elective **	3 3 3 4	ME 324 Heat Transfer ME 329 Applied Thermodynamics ME 333 Manufacturing Processes ME 336 ME Experimentation I ME 417 Machine Elements H/SS Elective***	3 3 2 3 3
TOTAL	16	TOTAL	17
SENIOR FALL		SENIOR SPRING	
ME 420 CAE or ME 450 FEM ME 428 Design Project I ME 436 ME Experimentation II ME 463 Automatic Controls ME 4xx ME Electives ME 492 ME Seminar	3 3 2 3 3	ME 438 Design Project II ME 466 ME Experimentation III ME 4xx ME Elective H/SS Elective	3 2 3 7
TOTAL	15	TOTAL	15

Total Credits = 128

This plan is for students planning to graduate under the 2023-2024 Bulletin. Plans for previous bulletins can be found at me.mnsu.edu

^{*} Note: Students may, with permission from their advisor, elect to substitute Technical Communications, ENG 271, or Public Speaking for Technical Professionals, CMST 233.

^{**} Science/Math Elec – Either BIOL 105(4), PHYS 223 and 233 (3+1), CHEM 202(4), MATH 247(4), MATH 422(4), OR ENVR101

^{***} H/SS courses must be chosen correctly to meet program and the university cultural diversity requirements. Courses should be chosen in consultation with a ME academic advisor.