

MINNESOTA STATE UNIVERSITY, MANKATO
MECHANICAL ENGINEERING PROGRAM
2022-2023 (FOUR-YEAR PLAN)

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

Total Credits = 128

* 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.

This plan is for students planning to graduate under the 2022-2023 Bulletin. Plans for previous bulletins can be found at me.mnsu.edu