

**MINNESOTA STATE UNIVERSITY, MANKATO**  
**MECHANICAL ENGINEERING PROGRAM**  
**2020-2021 (FOUR-YEAR PLAN)**

<b>FRESHMAN FALL</b>		<b>FRESHMAN SPRING</b>	
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
		EE244 Digital Logic	2
<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>16</b>
<b>SOPHOMORE FALL</b>		<b>SOPHOMORE SPRING</b>	
MATH 321 Differential Equations	4	MATH 223 Calculus III	4
PHYS 222 Physics II	3	ME 203 GD&T in Engr. Design	2
PHYS 232 Physics II Lab	1	ME 214 Dynamics	3
ME 212 Statics	3	<b>ME223 Mechanics of materials</b>	<b>3</b>
EE 230 Circuits I	3	Science/Math Elective**	4
EE 240 Circuits Lab	1		
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>16</b>
<b>JUNIOR FALL</b>		<b>JUNIOR SPRING</b>	
<b>ME306</b> Materials Science	3	ME 324 Heat Transfer	3
ME 241 Thermodynamics	3	ME 329 Applied Thermodynamics	3
ME 321 Fluid Mechanics	3	ME 333 Manufacturing Processes	3
<b>ME291 Engineering Analysis</b>	<b>3</b>	ME 336 ME Experimentation I	2
ME 341 Linear System Analysis	3	ME 417 Machine Elements	3
		H/SS Elective***	3
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>17</b>
<b>SENIOR FALL</b>		<b>SENIOR SPRING</b>	
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		
H/SS Elective	3		
<b>TOTAL</b>	<b>18</b>	<b>TOTAL</b>	<b>15</b>

**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 2020-2021 Bulletin. Plans for previous bulletins can be found at [me.mnsu.edu](http://me.mnsu.edu)**