

## BSME Curriculum

### Freshman Year

First Semester	Hours
<a href="#">CH 101</a> General Chemistry	4
ENGR 111 Engineering the Future	1
<a href="#">EN 101</a> English Composition I (FC)	3
<a href="#">MATH 125 Calculus I (MA)</a>	4
ME 121 Introduction to M.E.	1
ENGR 131 Engineering Concepts I	1
ENGR 151 Fund. Graphics	1
<b>TOTAL</b>	<b>15</b>

Second Semester	Hours
ENGR 141 Engineering Concepts II	1
<a href="#">EN 102</a> English Composition II (FC)	3
<a href="#">MATH 126</a> Calculus II (MA)	4
ENGR 161 Graphics	1
<a href="#">PH 105</a> General Physics with Calculus I	4
Humanities (H) or social science (SS) elective (See Note 1)	3
<b>TOTAL</b>	<b>16</b>

### Sophomore Year

First Semester	Hours
<a href="#">AEM 201</a> Statics	3
Approved Science Elective	4
<a href="#">MATH 227</a> Calculus III (MA)	4
<a href="#">ME 215</a> Thermodynamics I	3
<a href="#">PH 106</a> General Physics with Calculus II	4

Second Semester	Hours
<a href="#">AEM 311</a> Fluid Mechanics	3
<a href="#">AEM 264</a> Dynamics	3
<a href="#">MATH 238</a> Applied Differential Equations I (MA)	3
<a href="#">MTE 271</a> Engineering Materials I	3
<a href="#">ME 305</a> Thermodynamics II	3

<b>TOTAL</b>	<b>18</b>
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<b>TOTAL</b>	<b>15</b>
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Junior Year

<b>First Semester</b>	Hours
<a href="#">ECE 320</a> Fundamentals of Electrical Engineering	3
<a href="#">AEM 250</a> Mechanics of Materials I	3
<a href="#">AEM 251</a> Mechanics of Materials Laboratory	1
Humanities (H) or social science (SS) elective (See	3
<a href="#">ME 309</a> Heat Transfer	3
<a href="#">ME 349</a> Engineering Analysis (C)	3
<b>TOTAL</b>	<b>16</b>

<b>Second Semester</b>	Hours
<a href="#">ME 383</a> Modern Manufacturing Practices	3
<a href="#">ME 350</a> Static Machine Components	3
<a href="#">ME 360</a> Control and Instrumentation Components (W)	3
<a href="#">ME 372</a> Dynamic Systems (C)	3
Approved mechanical engineering elective (See Note 2)	3
<b>TOTAL</b>	<b>15</b>

Senior Year

<b>First Semester</b>	Hours
<a href="#">ME 415</a> Energy Systems Design OR <a href="#">ME 407</a> Heating Ventilation and Air Conditioning	2 or 3
<a href="#">ME 450</a> Dynamic Machine Components	3
<a href="#">ME 460</a> Thermal Systems Instrumentation (W)	3
<a href="#">ME 489</a> Mechanical Engineering Design I	3

<b>Second Semester</b>	Hours
<a href="#">ME 490</a> Mechanical Engineering Design II	3
Approved technical elective (See Note 3)	3
Approved mechanical engineering elective (See Note 2)	3
Humanities (H) or social science (SS) elective (See Note 1)	3
Humanities (H) or social science (SS)	3

Humanities (H) or social science (SS) elective (See Note 1)	3
Humanities (H) or social science (SS) elective (See Note 1)	3
TOTAL	<b>17 or 18</b>

elective (See Note 1)	
TOTAL	<b>15</b>

Note 1: At least 6 semester hours of the required 18 hours of humanities and social science electives must be a two-semester sequence forming an in-depth study.

Note 2: Mechanical engineering electives are offered on a regular schedule, but not necessarily every year. The student may select any two mechanical engineering electives to complete the requirements for the BSME degree.

Note3: The list of Approved Technical electives will be available at undergraduate advising.