

Mechanical Engineering
Bachelor of Science in Mechanical Engineering (B.S.M.E.) <042T>
 Catalog Year 2016-17

First Semester				Second Semester			
WVUE	191	First Year Seminar	1.00	ENGL	102	Composition and Rhetoric (<i>GEF 1</i>)	3.00
ENGL	101	Composition and Rhetoric (<i>GEF 1</i>)	3.00	ENGR	111	Software Tools for Engineers	3.00
CHEM	115	Fund of Chemistry I (<i>GEF 8</i>)	4.00	<i>GEF</i>	<i>5</i>	Human Inquiry and the Past	3.00
DRET	120	Drafting 1	2.00	MAE	241	Statics	3.00
MATH	155	Calculus I (<i>GEF 3</i>)	4.00	MATH	156	Calculus II (<i>GEF 8</i>)	4.00
			14.00				16.00
Third Semester				Fourth Semester			
MAE	242	Dynamics	3.00	PHYS	112	General Physics (<i>GEF 8</i>)	4.00
MAE	243	Mechanics of Materials	3.00	MAE	331	Fluid Mechanics	3.00
MAE	240	Manufacturing Processes	3.00	MAE	201	Applied Engineering Analysis	3.00
MATH	251	Multivariable Calculus	4.00	MAE	320	Thermodynamics	3.00
PHYS	111	General Physics (<i>GEF 2B</i>)	4.00	MATH	261	Elementary Differential Equations	4.00
			17.00				17.00
Fifth Semester				Sixth Semester			
MAE	342	Dynamics of Machines	3.00	MAE	332	Experimental Methods	1.00
MAE	333	Mechanical Measurements	1.00	MAE	423	Heat & Mass Transfer	3.00
MAE	321	Applied Thermodynamics	3.00	MAE	419	Heat Transfer Lab	1.00
EE	221	Intro. Electrical Engr.	3.00	MAE	340	Vibrations	3.00
EE	222	Intro. Electrical Engr. Lab	1.00	ENGL	305	Technical Writing	3.00
MAE	480	Machine Design & Manufacturing	3.00	ECON	401	Managerial Economics (<i>GEF 4</i>)	3.00
			14.00	MAE	460	Auto Controls	3.00
							17.00
Seventh Semester				Eighth Semester			
MAE	405	Sr. Mechanical Engineering Lab	1.00	ENGR	401	Senior Engineering Seminar	1.00
MAE	455	CADD-Comp Aided Des & Drafting	3.00	MAE	410	Materials Science (<i>GEF 2B</i>)	4.00
MAE	480	ME Systems Design I	3.00	MAE	456	Finite Element Design	3.00
<i>GEF</i>	<i>6</i>	The Arts and Creativity	3.00	MAE	481	ME Systems Design II	3.00
<i>GEF</i>	<i>7</i>	Global Studies and Diversity	3.00				3.00
			3.00				14.00
			16.00				

Total hours necessary to earn the B.S.M.E. degree = 125.00

Notes: ⁽¹⁾ The Technical Elective must be selected from an approved list.