

# Wilkes University

## Mechanical Engineering Curriculum

First Semester			Credits	Second Semester			Credits
CHM 117	Chemistry Lab for Engineers	1		EGR 200	Materials Science	3	
CHM 118	Chemistry for Engineers	3		EGR 201	Professionalism and Ethics	1	
EGR 180	CADD Lab	1		EGR 231	Statics	3	
ENG 101	Composition	4		MTH 112	Calculus II	4	
FYF 101	First-Year Foundations	3		PHY 201	General Physics I	3	
ME 175	Machining	1		PHY 204	General Physics I Lab	1	
MTH 111	Calculus I	4		General Education		3	
<b>Total Credits 17</b>				<b>Total Credits 18</b>			
Third Semester			Credits	Fourth Semester			Credits
EE 211	Electrical Circuits and Devices	3		EGR 222	Mechatronics	3	
EE 283	Electrical Engineering Lab	1		ME 232	Strength of Materials	3	
EGR 140	Scientific Programming	3		ME 234	Dynamics	3	
MTH 211	Differential Equations	4		ME 322	Thermodynamics	3	
PHY 202	General Physics II	3		MTH 212	Multivariable Calculus	4	
PHY 205	General Physics II Lab	1		<b>Total Credits 16</b>			
General Education		3		<b>Total Credits 18</b>			
Fifth Semester			Credits	Sixth Semester			Credits
ME 215	Manufacturing Processes	3		EGM 320	Engineering Project Management	3	
ME 321	Fluid Mechanics	3		ME 323	Fluid Mechanics Lab	1	
ME 333	Machine Design	3		ME 324	Heat Transfer	3	
ME 335	Finite Element Methods	4		ME 330	Vibrations Laboratory	1	
General Education		3		ME 332	Vibrations	3	
<b>Total Credits 16</b>				Co-op or ME Technical Elective*		3	
Seventh Semester			Credits	Eighth Semester			Credits
EGR 391	Senior Projects I	1		EGR 392	Senior Projects II	2	
ME 317	Robotics	3		Engineering Elective***		3	
ME 326	Heat Transfer Laboratory	1		Free Elective****		3	
ME 384	Mechanical Design Laboratory	3		ME Technical Elective*		3	
Math/Science Elective**		3		General Education		3	
General Education		3		<b>Total Credits 14</b>			
<b>Total Credits 14</b>				<b>Total Credits 14</b>			
<b>TOTAL CURRICULUM CREDITS 130</b>							

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*\*ME Technical Elective at 200 level or above. \*\*Math/Science Elective from approved list. \*\*\*Engineering Elective at 200 level or above.*

*\*\*\*\*Free Elective any course 101 level or above. This chart is for illustration purposes only. See Undergraduate Bulletin for specific requirements.*