

# Wilkes University

## Mechanical/Electrical Engineering Double-Major Curriculum

First Semester		Credits	Second Semester		Credits
CHM 117	Chemistry Lab for Engineers	1	EE 216	Circuit Analysis I	3
CHM 118	Chemistry for Engineers	3	EGR 200	Materials Science	3
EGR 180	CADD Lab	1	EGR 201	Professionalism and Ethics	1
ENG 101	Composition	4	EGR 231	Statics	3
FYF 101	First-Year Foundations	3	MTH 112	Calculus II	4
ME 175	Machining	1	PHY 201	General Physics I	3
MTH 111	Calculus I	4	PHY 204	General Physics I Lab	1
<b>Total Credits 17</b>			<b>Total Credits 18</b>		
Third Semester		Credits	Fourth Semester		Credits
EE 217	Circuit Analysis II	3	EE 241	Digital Design	4
EE 285	Electrical Circuits Lab	1	EE 251	Electronics I	3
EGR 140	Scientific Programming	3	EGR 222	Mechatronics	3
MTH 211	Differential Equations	4	ME 232	Strength of Materials	3
PHY 202	General Physics II	3	ME 322	Thermodynamics	3
PHY 205	General Physics II Lab	1	<b>Total Credits 16</b>		
<b>Total Credits 15</b>			Sixth Semester		Credits
Fifth Semester		Credits	ME 234	Dynamics	3
EE 252	Electronics II	4	ME 323	Fluid Mechanics Lab	1
EE 271	Semiconductor Devices	4	ME 324	Heat Transfer	3
EE 381	Microfabrication Lab	3	MTH 212	Multivariable Calculus	4
ME 321	Fluid Mechanics	3	Math/Science Elective*		3
ME 333	Machine Design	3	General Education		3
<b>Total Credits 17</b>			<b>Total Credits 17</b>		
Seventh Semester		Credits	Eighth Semester		Credits
EE 314	Control Systems	3	EE 339	Electromagnetics II	4
EE 337	Electromagnetics I	3	EGR 214	Linear Systems	3
ME 215	Manufacturing Processes	3	EGM 320	Engineering Project Management	3
ME 326	Heat Transfer Lab	1	ME 330	Vibrations Lab	1
ME 335	Finite Element Methods	4	ME 332	Vibrations	3
General Education		3	General Education		3
<b>Total Credits 17</b>			<b>Total Credits 17</b>		
Ninth Semester		Credits	Tenth Semester		Credits
EE 325	Energy Conversion Devices	3	EE 382	Modern Communication Systems	4
EGR 391	Senior Projects I	1	EGR 392	Senior Projects II	2
ME 317	Robotics	3	General Education		3
ME 384	Mechanical Design Lab	3	General Education		3
General Education		3	<b>Total Credits 12</b>		
<b>Total Credits 13</b>			<b>Total Credits 12</b>		

**TOTAL CURRICULUM CREDITS 159**

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*\*Math/Science Elective from approved list.*

*This chart is for illustration purposes only. See Undergraduate Bulletin for specific requirements.*