

# Wilkes University

## Electrical Engineering Curriculum

First Semester			Credits	Second Semester			Credits
CHM 117	Chemistry for Engineers Lab		1	EE 216	Circuit Analysis I		3
CHM 118	Chemistry for Engineers		3	EGR 201	Professionalism and Ethics		1
EGR 180	CADD Lab		1	EGR 231	Statics		3
ENG 101	English Composition		4	MTH 112	Calculus II		4
FYF 101	First Year Foundations		3	PHY 201	General Physics I		3
MTH 111	Calculus I		4	PHY 204	Physics I Laboratory		1
<b>Total Credits 16</b>				General Education			3
				<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	Intro to Differential Equations		4	MTH 212	Multivariable Calculus		4
PHY 202	General Physics II		3	General Education			3
PHY 205	General Physics II Laboratory		1	<b>Total Credits 17</b>			
<b>Total Credits 15</b>							
Fifth Semester			Credits	Sixth Semester			Credits
EE 252	Electronics II		4	EGM 320	Engineering Project Management		3
EE 271	Semiconductor Devices		4	EGR 214	Linear Systems		3
EE 381	Microfabrication Lab		3		Co-op or Engineering Elective*		3
	Engineering Elective*		3		Math/Science Elective**		3
	General Education		3	General Education			3
<b>Total Credits 17</b>				<b>Total Credits 15</b>			
Seventh Semester			Credits	Eighth Semester			Credits
EE 314	Control Systems		3	EE 339	Electromagnetics II		4
EE 325	Energy Conversion Devices		3	EE 382	Modern Communications Systems		4
EE 337	Electromagnetics I		3	EGR 392	Senior Projects II		2
EGR 391	Senior Projects I		1	Free Elective***			3
	General Education		3	Engineering Elective*			3
	General Education		3				
<b>Total Credits 16</b>				<b>Total Credits 16</b>			
<b>TOTAL CURRICULUM CREDITS 130</b>							

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*\*Engineering Elective at 200 level or above. \*\*Math/Science Elective from approved list. \*\*\*Free Elective any course 101 level or above.*

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