## Wilkes University

Mechanical/Electrical Engineering Double-Major Curriculum						
First Semester		Credits	Second Semester		Credits	
MTH 111	Calculus I	4	MTH 112	Calculus II	4	
CHM 117	Chemistry Lab for Engineers	1	PHY 201	General Physics I	3	
CHM 118	Chemistry for Engineers	3	PHY 204	General Physics I Lab	1	
EGR 180	CADD Lab	1	EGR 140	Scientific Programming	3	
ENG 101	Composition	4	EE 216	Circuit Analysis I	3	
FYF 101	First-Year Foundations	3	EGR 200	Materials Science	3	
Total Credits 16				Tota	Credits 17	
Third Semester		Credits		Fourth Semester Cred		
MTH 211	Differential Equations	4	EGR 222	Mechatronics	3	
PHY 202	General Physics II	3	EE 251	Electronics I	3	
PHY 205	General Physics II Lab	1	EE 241	Digital Design	4	
EE 217	Circuit Analysis II	3	ME 322	Thermodynamics	3	
EE 285	Electrical Circuits Lab	1	ME 232	Strength of Materials	3	
ME 231	Statics	3	ME 175	Machining	1	
		+			Credits 17	
Total Credits 15						
Fifth Semester		Credits		Sixth Semester	Credits	
EE 252	Electronics II	4	ME 234	Dynamics	3	
EE 271	Semiconductor Devices	4	MTH 212	Multivariable Calculus	4	
EE 381	Microfabrication Lab	3	PHY 203	Modern Physics	3	
ME 321	Fluid Mechanics	3	PHY 206	Modern Physics Lab	1	
ME 333	Machine Design	3	ME 323	Fluid Mechanics Lab	1	
Total Credits 17			ME 324	Heat Transfer	3	
				General Education	3	
			Total Credits 18			
	Seventh Semester	Credits		Eighth Semester	Credits	
EE 314	Control Systems	3	EGR 201	Ethics	1	
EE 337	Electromagnetics I	3	PHY 214	Applied Physics	3	
ME 326	Heat Transfer Lab	1	EGM 320	Engineering Project Management	3	
ME 215	Manufacturing Processes	3	ME 332	Vibrations	3	
ME 335	Finite Element Methods	4	ME 330	Vibrations Lab	1	
	General Education	3	EE 339	Electromagnetics II	4	
Total Credits 17				General Education	3	
			_	Total Credits 18		
	Ninth Semester	Credits		Tenth Semester	Credits	
EE 325	Energy Conversion Devices	3	EE 339	Electromagnetics II	4	
EGR 391	Senior Projects I	1	EE 382	Modern Communication Systems	4	
ME 384	Mechanical Design Lab	3	EGR 392	Senior Projects II	2	
ME 317	Robotics	3		General Education	3	
		3				
General Education 3						
Total Credits 16 Total Credits 13						
Total creates 19						

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

**TOTAL CURRICULUM CREDITS 164** 

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