

# Wilkes University

## Mechanical Engineering Curriculum College Algebra Track

First Semester		Credits	Second Semester		Credits
EGR 180	CADD Lab	1	EGR 140	Scientific Programming	3
ENG 101	Composition	4	EGR 201	Professionalism and Ethics	1
FYF 101	First-Year Foundations	3	<i>CHM 118</i>	<i>Chemistry for Engineers</i>	3
<i>MTH 094</i>	<i>College Algebra</i>	3	<i>CHM 117</i>	<i>Chemistry Lab for Engineers</i>	1
	<i>General Education</i>	3	<i>MTH 100</i>	<i>Precalculus</i>	3
<b>Total Credits 14</b>					3
					3
			<b>Total Credits 17</b>		
<b>Summer - Total Credits 8</b>					
MTH 111 - Calculus 1 (4)					
PHY 201 - General Physics I (3)					
PHY 204 - General Physics I Lab (1)					
Third Semester		Credits	Fourth Semester		Credits
<i>MTH 112</i>	<i>Calculus II</i>	4	<i>EGR 200</i>	<i>Materials Science</i>	3
EE 211	Electrical Circuits and Devices	3	EGR 222	Mechatronics	3
EE 283	Electrical Engineering Lab	1	ME 175	Machining	1
PHY 202	General Physics II	3	ME 322	Thermodynamics	3
PHY 205	General Physics II Lab	1	ME 232	Strength of Materials	3
EGR 231	Statics	3	ME 234	Dynamics	3
	General Education	3	<b>Total Credits 16</b>		
<b>Total Credits 18</b>					
<b>Summer - Total Credits 4</b>					
MTH 211 – Intro. to Ordinary Differential Equations (4)					
Fifth Semester		Credits	Sixth Semester		Credits
<i>MTH 212</i>	<i>Multivariable Calculus</i>	4	EGR 320	Engineering Project Management	3
ME 321	Fluid Mechanics	3	ME 323	Fluid Mechanics Laboratory	1
ME 333	Machine Design	3	ME 332	Vibrations	3
ME 215	Manufacturing Processes	3	ME 330	Vibrations Laboratory	1
ME 335	Finite Element Methods	4	ME 324	Heat Transfer	3
<b>Total Credits 17</b>					3
			<b>Total Credits 14</b>		
Seventh Semester		Credits	Eighth Semester		Credits
ME 317	Robotics	3		ME Technical Elective*	3
ME 326	Heat Transfer Laboratory	1		Engineering Elective***	3
ME 384	Mechanical Design Laboratory	3		Free Elective****	3
EGR 391	Senior Projects I	1	EGR 392	Senior Projects II	2
	Math/Science Elective**	3			3
	General Education	3			
<b>Total Credits 14</b>			<b>Total Credits 14</b>		
<b>TOTAL CURRICULUM CREDITS 136</b>					

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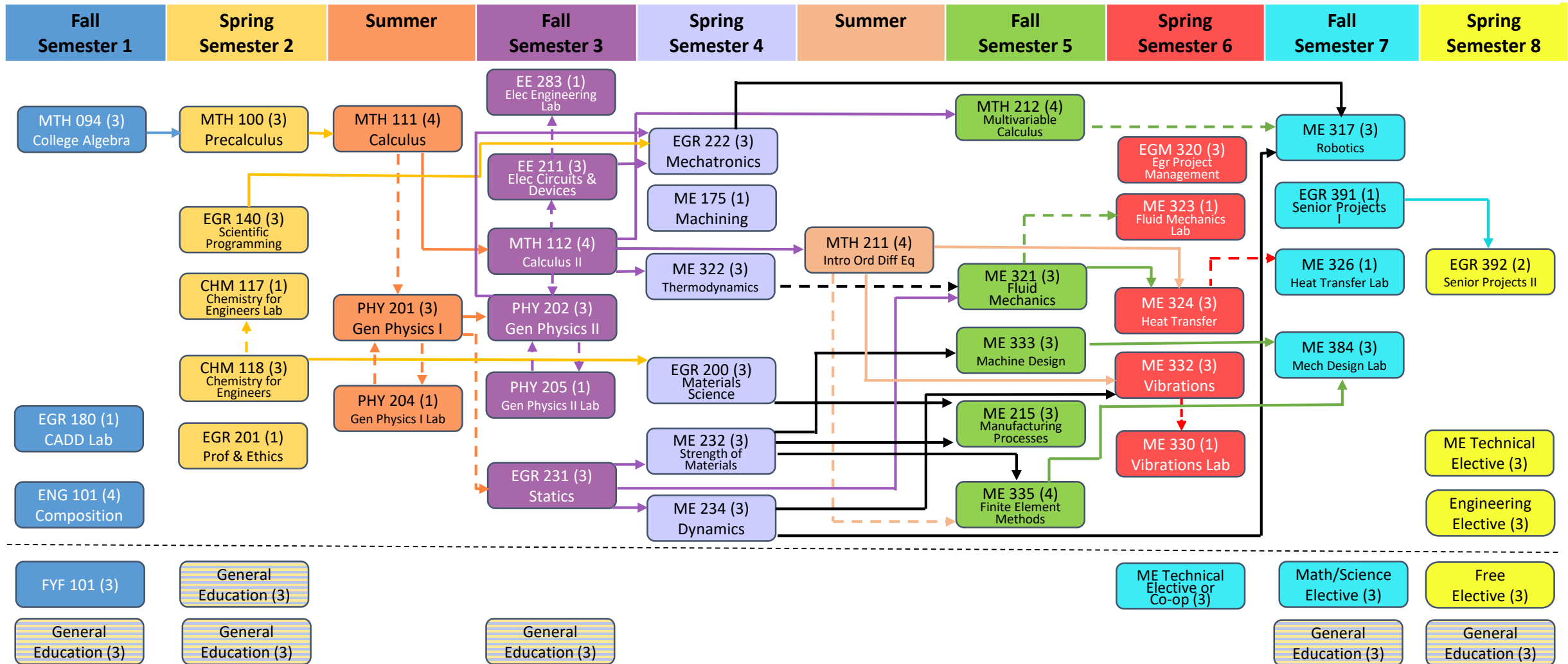
*\*ME Technical Elective at 200 level or above. \*\*Math/Science Elective from approved list. \*\*\*Engineering Elective at 200 level or above.*

*\*\*\*\*Free Elective any course 101 level or above. Italicized courses are out of sequence from the standard BSME schedule.*

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

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## Mechanical Engineering College Algebra Track Curriculum Flowchart



**Some pre-requisite lines shown may be listed as concurrent or as co-requisite in the Bulletin. Please be sure to confirm with your advisor and the latest Bulletin.**

The requisites of a course's requisite are requisites of the course. Solid lines indicate prerequisite and dashed lines corequisites.

Credit hours are listed in parentheses following each course number.

**CHART IS FOR ILLUSTRATION PURPOSES ONLY: SEE UNDERGRADUATE BULLETIN FOR PRE-REQUISITES/CONCURRENT REQUIREMENTS.**