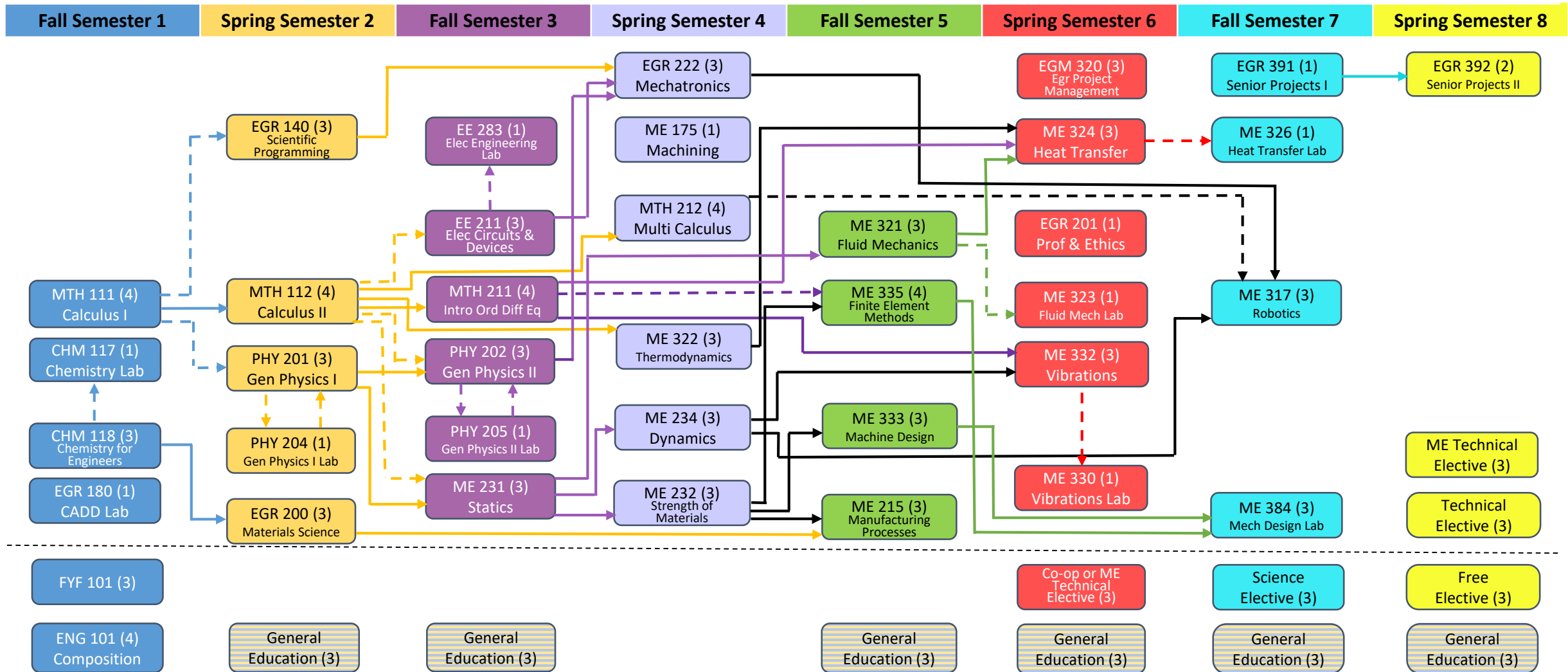


# Wilkes University

## Mechanical Engineering 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.**

# Wilkes University

## Mechanical Engineering Curriculum

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

Rev 6.16.23

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