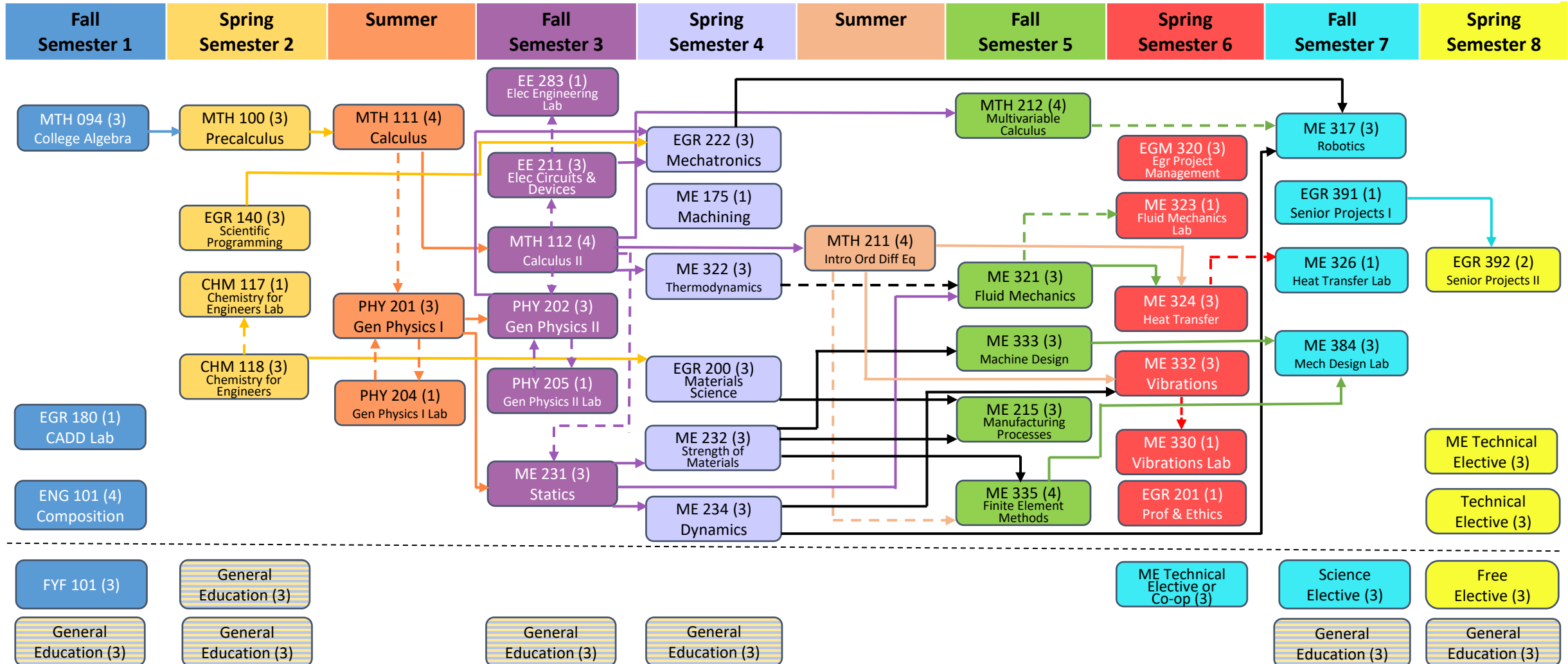


Wilkes University

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.

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	<i>CHM 118</i>	<i>Chemistry for Engineers</i>	3
FYF 101	First-Year Foundations	3	<i>CHM 117</i>	<i>Chemistry for Engineers Lab</i>	1
<i>MTH 094</i>	<i>College Algebra</i>	3	<i>MTH 100</i>	<i>Precalculus</i>	3
<i>General Education</i>		3	<i>General Education</i>		3
Total Credits 14			<i>General Education</i>		3
					Total Credits 16
Summer - Total Credits 8 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
ME 231	Statics	3	ME 234	Dynamics	3
<i>General Education</i>		3	Total Credits 16		
Total Credits 18					
Summer - Total Credits 4 MTH 211 – Intro. to Ord. Diff. 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	EGR 201	Professionalism and Ethics	1
ME 333	Machine Design	3	ME 323	Fluid Mechanics Lab	1
ME 215	Manufacturing Processes	3	ME 332	Vibrations	3
ME 335	Finite Element Methods	4	ME 330	Vibrations Lab	1
Total Credits 17			ME 324	Heat Transfer	3
			ME Technical Elective* or Co-op		3
					Total Credits 15
Seventh Semester		Credits	Eighth Semester		Credits
ME 317	Robotics	3	ME Technical Elective*		3
ME 326	Heat Transfer Lab	1	Technical Elective***		3
ME 384	Mechanical Design Laboratory	3	Free Elective****		3
EGR 391	Senior Projects I	1	EGR 392	Senior Projects II	2
Science Elective**		3	<i>General Education</i>		3
<i>General Education</i>		3			
Total Credits 14			Total Credits 14		
TOTAL CURRICULUM CREDITS 136					

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. Italicized courses are out of sequence from the standard BSME schedule.
 This chart is for illustration purposes only. See Undergraduate Bulletin for specific requirements.