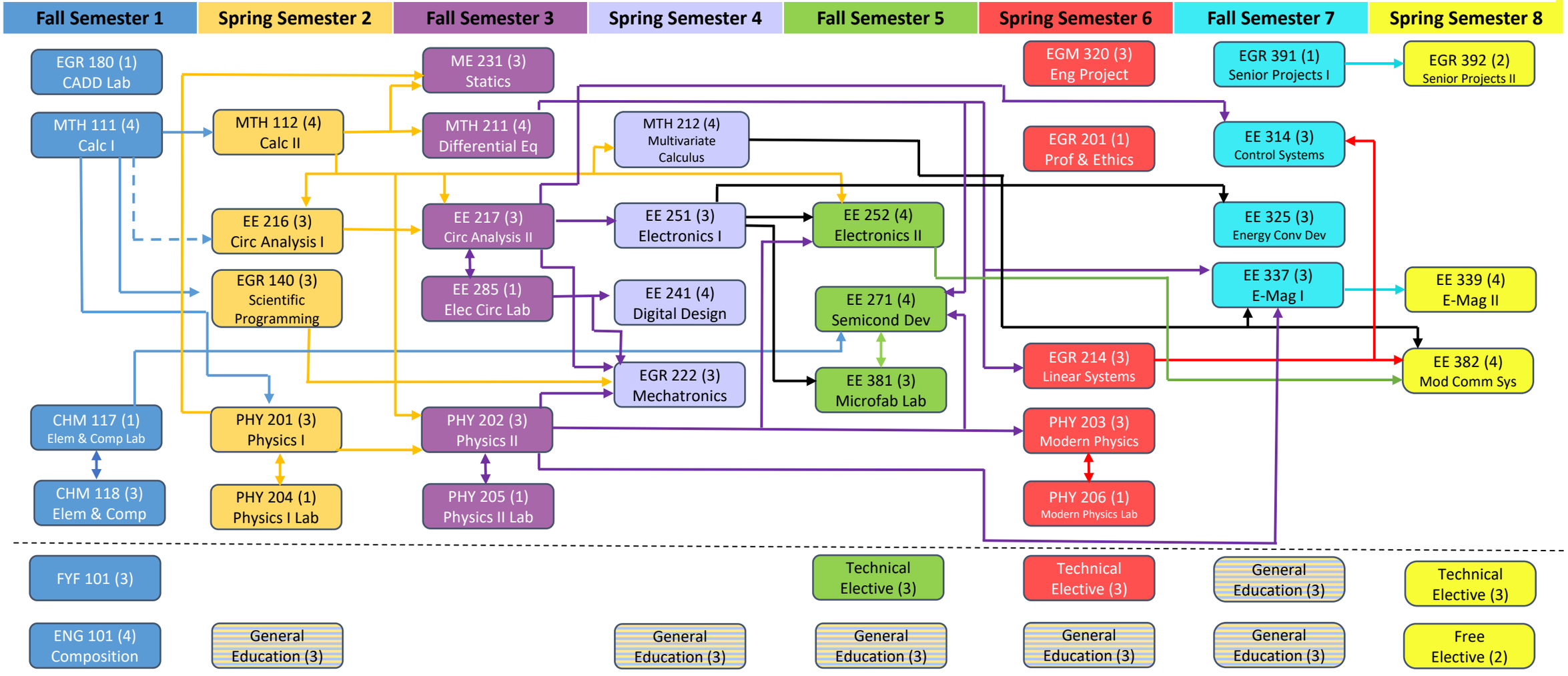
Wilkes University

Electrical 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.

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Wilkes University

Electrical Engineering Curriculum

First Semester		Credits
MTH 111	Calculus I	4
CHM 118	Chemistry for Engineers	3
CHM 117	Chemistry for Engineers Lab	1
EGR 180	CADD Lab	1
ENG 101	English Composition	4
FYF 101	First Year Foundations	3
	Total Credits	**16**

Second Semester		Credits
MTH 112	Calculus II	4
PHY 201	General Physics I	3
PHY 204	Physics I Laboratory	1
EGR 140	Scientific Programming	3
EE 216	Circuit Analysis I	3
	General Education	3
	Total Credits	**17**

Third Semester		Credits
MTH 211	Intro to Differential Equations	4
PHY 202	General Physics II	3
PHY 205	General Physics II Laboratory	1
EE 217	Circuit Analysis II	3
EE 283	Electrical Circuits Lab	1
ME 231	Statics	3
	Total Credits	**15**

Fourth Semester		Credits
MTH 212	Multivariable Calculus	4
EE 251	Electronics I	3
EGR 222	Mechatronics	3
EE 241	Digital Design	4
	General Education	3
	Total Credits	**17**

Fifth Semester		Credits
EE 252	Electronics II	4
EE 271	Semiconductor Devices	4
EE 381	Microfabrication	3
	Technical Elective*	3
	General Education	3
	Total Credits	**17**

Sixth Semester		Credits
	Co-op or Technical Elective*	3
EGR 201	Professionalism and Ethics	1
EGM 320	Engineering Project Analysis	3
PHY 203	Modern Physics	3
PHY 206	Modern Physics Lab	1
EGR 214	Linear Systems	3
	General Education	3
	Total Credits	**17**

Seventh Semester		Credits
EE 314	Control Systems	3
EE 337	Electromagnetics	3
EGR 391	Senior Projects I	1
EE 325	Energy Conversion Devices	3
	General Education	6
	Total Credits	**16**

Eighth Semester		Credits
EE 339	Electromagnetics II	4
EE 382	Modern Communications Systems	4
EGR 392	Senior Projects II	2
	Technical Elective*	3
	Free Elective**	2
	Total Credits	**15**

TOTAL CURRICULUM CREDITS 130

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**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.