

Electrical Engineering Concentration Outline

()=Pre-requisites, Co=Co-requisites

Fall Semester

Spring Semester

Freshman

ENGR120	Intro to Engineering & Design	2	ENGR180	Material Science (CHEM131)	4
ENGR125	Engineering Graphics	3	MATH192	Calculus II (MATH191 or MATH195)	4
MATH191	Calculus I (P5, or MATH167, or MATH168)	4	ENGR185	Engineering Statics (MATH191)	3
GEN ED	Social Science or History	3	RELT100	God & Human Life	3
HLED120/FT	Fit for Life/Fitness Activity	1	COMM104	Communication Skills	3
ENGL115	College Writing I	3			
		16			17

Sophomore

ENGR225	Circuit Analysis (MATH191)	3	ENGR285	Engineering Dynamics (ENGR185, PHYS241 , and MATH192: Co: MATH286)	3
PHYS241	Physics for Scientists I (MATH192; Co: PHYS271)	5	MATH286	Differential Equations (MATH192)	3
MATH240	Calculus III (MATH192)	4	CPTR152	Computer Science II (CPTR151	3
CPTR151	Computer Science I	3	PHYS242/27	Physics for Scientists II (MATH192 and PHYS241; Co: PHYS 272)	5
FTES	Physical Fitness Activity	1	ENGR275	Electronics I (ENGR225)	3
		16			17

Junior

MATH215	Linear Algebra (MATH182, MATH191, or MATH195)	3	ENGR310	Linear Systems Analysis (MATH215, MATH286, CPTR151)	3
ENGL215	College Writing II (ENGL115 or ENGL117)	3	STAT340	Probability and Statistics (MATH191 or MATH195)	3
ENGR435	Electromagnetic Fields (MATH240, MATH286, PHYS 242)	4	ENGR315	Critical Thinking (PHYS242)	3
ENGR325	Electronics II (ENGR275)	4	ENGR385	Microprocessor Systems (ENGR335 or CPTR276)	4
GEN ED	Social Sciences	3	ENGR390	ENGR Measurements Lab (ENGR330, ENGR340)	4
		17			17

Senior

ENGR491	Review of Engineering Design	1	ENGR492	Senior Design Project (ENGR385 or ENGR390)	3
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ENGR450	Engineering Economy (MATH145 or MATH191)	2	ENGR455	Communications Systems (EN	4
GEN ED	Religion (RELB,RELG,RELT)	3	GEN ED	Religion (RELG, RELB, RELT)	3
GEN ED	Religion (RELB,RELG,RELT)	3	GEN ED	Arts/Humanities	3
ENGR410	Feedback Control (ENGR275, ENGR285, ENGR310)	4	ENGR485	Community Service	2

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Offered every other year*

Suggested 4-year course outline per Bulletin 2020-2021

Total Credits for Graduation

128