

Computer Engineering Concentration Outline

Fall Semester

Freshman

ENGR120	Intro to Engineering & Design	2
ENGR125	Engineering Graphics	3
Math191	Calculus I (P5, MATH167 or MATH168)	4
HLED120/FT	Fit for Life/Fitness Activity	1
ENGL115	College Writing I	3
GEN Ed	History/Social Science	3
		16

Spring Semester

ENGR180	Material Science (CHEM131)	4
MATH192	Calculus II (MATH 191 or MATH195)	4
ENGR185	Engineering Statics (MATH191)	3
COMM104	Communication Skills	3
RELT100	God & Human Life	3
		17

Sophomore

ENGR225	Circuit Analysis (MATH 191)	3
PHYS241	Physics for Scientists I (MATH192; Co: PHYS271)	5
MATH240	Calculus III (MATH192)	4
CPTR151	Computer Science I	3
FTES	Physical Fitness Activity	1
		16

ENGR285	Engineering Dynamics (ENGR185, PHYS241, MATH 192; MATH286)	3
MATH286	Differential equations (MATH192)	3
CPTR152	Computer Science II (CPTR151)	3
PHYS242/27	Physics for Scientists II (MATH192, PHYS241; Co: PHYS272)	5
ENGR275	Electronics I (ENGR225)	3
		17

Junior

MATH215	Intro to Linear Algebra (MATH182, MATH191 or MATH195)	3
ENGL215	College Writing II (ENGL115 or ENGL117)	3
CPTR276	Data Structures (CPTR152)	3
ENGR325	Electronics II (ENGR275)	4
ENGR450	Engineering Economy (MATH145 or MATH 191)	2
		15

ENGR310	Linear Systems Analysis (MATH215, MATH286, CPTR151)	3
STAT340	Probability and Statistics (MATH191 or MATH195)	3
ENGR385	Microprocessor Systems (ENGR335 or CPTR276)	4
ENGR315	Critical Thinking (PHYS242)	3
GEN ED	Religion (RELG, RELB, RELT)	3
		16

Senior

ENGR491	Review of Engineering Design	1	ENGR492	Senior Design Project (ENGR 385 or ENGR390)	3
ENGR405	Digital Interfacing (ENGR385, CPTR151)	4	CPTR	Upper Division Elective	3
CPTR	Upper Division Elective	3	GEN ED	Religion (RELG, RELB, RELT)	3
GEN ED	Religion (RELB,RELG,RELT)	3	Gen ED	Social Sciences	3
GEN ED	Arts/Humanities	3	ENGR485	Community Service	2
		<hr/>			<hr/>
		14			14

Offered every other year****Suggested 4-year course outline per Bulletin 2019-2020*****Total Credits for Graduation****125**