Computer Engineering Concentration Outline

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

MPE = P5

Some general education courses may be taken during the summers

Fall Semester			Spring Semester		
Freshman					
ENGR120	Intro to Engineering & Design	2	ENGR181	Material Properties and Processes	3
ENGR125	Engineering Graphics	3	HLED135	Wellness	3
MATH191	Calculus I (P5, MATH167 or MATH168)	4	MATH192	Calculus II (MATH 191 or MATH195)	4
ENGL115	College Writing I	3	CPTR152	Computer Science II (CPTR151)	3
CPTR151	Computer Science I	3	RELT100	God & Human Life	3
		15			16
Sophomore					
ENGR185	Engineering Statics (MATH191)	3	ENGR225	Circuit Analysis (MATH 191)	3
ENGR365	Numerical Methods for Engineers	3	ENGR285	Engineering Dynamics (ENGR185, PHYS241, MATH 192; MATH286)	3
PHYS241	Physics for Scientists I (MATH192; Co: PHYS271)	4	MATH286	Differential equations (MATH192)	3
PHYS271	Physics for Scientists Lab I (Co: PHYS241)	1	PHYS242	Physics for Scientists II (MATH192, PHYS241; Co: PHYS272)	4
INEN221	Intro to Innovation	3	PHYS272	Physics for Scientists Lab II (Co: PHYS242)	1
HIST110	Worldviews, Cultures, and God	3	COMM104	Communication Skills	3
		17			17
Junior					
ENGR275	Electronics I (ENGR225)	3	ENGR325	Electronics II (ENGR275)	4
MATH240	Calculus III (MATH192)	4	STAT340	Probability and Statistics (MATH191 or MATH195)	3
ENGL215	College Writing II (ENGL115 or ENGL117)	3	ENGR310	Linear Systems Analysis (MATH215, MATH286, CPTR151)	3
CPTR276	Data Structures (CPTR152)	3	CPTR	Elective	3
REL	Religion (RELG, RELB, RELT)	3	ENGR335	Logic Circuit Design (ENGR275)	3
		16			16
Senior					
ENGR385	Microprocessor Systems	4	ENGR492	Senior Design Project	3
GEN ED	Arts/Humanities	3	CPTR	Upper Division Elective	3
ENGR491	Review of Engineering Design (ENGR355, 385 or 390)	1	REL	Religion (RELG, RELB, RELT)	3
CPTR	Upper Division Elective	3	GEN ED	Social Sciences	3
REL	Religion (RELB,RELG,RELT)	3	ENGR 455	Communication Systems (ENGR310, ENGR325, STAT340)	4
ENGR450	Engineering Economy (MATH145 or MATH 191)	2			
		16			16

Suggested 4-year course outline per Bulletin 2024-2025

Total Credits for Graduation 129