

			15 credits	Prerequisites/Co-requisites
CIVE 281	Analytical Mechanics	3		C- MATH262, MATH263
COMP 202	Foundations of Programming	3		
ECSE 200	Electric Circuits 1	3		P- PHMS 142; C- MATH262
MATH262	Intermediate Calculus	3		P- MATH133 or equiv, MATH141
MATH263	ODEs for Engineers	3		C- MATH262
			16 credits	Prerequisites/Co-requisites
ECSE 206	Probability & Statistics for Eng	3		
ECSE 206	Intro to Signals & Systems	3		P- ECSE 200
ECSE 210	Electric Circuits 2	3		P- ECSE 200
ECSE 211	Design Principles and Methods	3		P- ECSE 200 and (COMP 202 or ECSE 209)
ECSE 251	Electric and Magnetic Fields	3		P- MATH262, ECSE 200
FACC 100	Intro to Engineering Profession	1		
			16 credits	Prerequisites/Co-requisites
ECSE 250	Fundamentals of Software Development	3		P- COMP 202 or equivalent
ECSE 222	Digital Logic	3		P- COMP 202 or ECSE 202
ECSE 362	Fundamentals of Power Eng	4		P- ECSE 210 and ECSE 251; C- CIVE 281
MME 262	Properties of Materials in EE	3		
COMP 202	Introduction to Software Systems	3		P- (COMP 202 or ECSE 209) or (COMP 250 or ECSE 250)
			15 credits	Prerequisites/Co-requisites
ECSE 306	Intro Comm Svs. & Networks	4		P- ECSE 206, ECSE 206
ECSE 324	Computer Organization	4		P- ECSE 200 and ECSE 222 and COMP 202
ECSE 331	Electronics	4		P- ECSE 210
HSS 1	Humanities & Social Sciences 1*	3		
FACC 250	Resp. of the Prof. Engineer	0		P- FACC 100 or BREE 205
			14 credits	Prerequisites/Co-requisites
ECSE 307	Linear Systems & Control	4		P- ECSE 206, ECSE 210
WCOM206	Communication in Engineering	3		
ECSE 354	Electromagnetic Wave Propagation	4		P- ECSE 251
FACC 300				

ECSE 335	Microelectronics	4	P- ECSE 331
ECSE 403	Control	4	P- ECSE 307
ECSE 408	Communication Systems	4	P- ECSE 205 ECSE 308
ECSE 416	Telecom Networks	4	P- (ECSE 250 or COMP 250) and ECSE 205 and (ECSE 308 or ECSE 316)
ECSE 433	Physical Basis of Transistor Devices	4	P- MVE 202, ECSE 331, ECSE 251
ECSE 444	Microprocessors	4	P- ECSE 324
ECSE 470	Electromechanical and Static Conversion Systems	4	P- ECSE 332

COMP 54E	Brain Inspired Artificial Intelligence	3	P- MATH 222, MATH 223, and MATH 323 or equivalents.
COMP 551***	Applied Machine Learning	4	