

ISE Approved Technical Electives							
Number	Cr	Title	Prerequisites	Online	Fall	Spring	Summer
CEG 3310/L	4	Computer Organization	CS 1181 (C or higher) or (CEG 2170 (C or higher) and (CEG 3320 or EE 2000))		X	X	
CEG 3400	3	Introduction to Cyber Security	CEG 2350 (C or higher)		X	X	
CS 3100	3	Data Structures and Algorithms	CS 1181 (C or higher) and CEG 3310 (C or higher) and (MTH 2570 or CS 2200)		X	X	
CS 3700	3	Introduction to Databases & Modeling	CS 1180 or CS 1160 or CEG 2170		X	X	
CS 4280/ MTH 4570	4	Combinatorics and Graph Theory	MTH 2310 and (CS 1160 or CS 1180)			X	
EE 4120/ ME 4121	3	Industrial Controls and Automation	ME 1020 or CS 1160		X	X	
EE 4190	4	Reinforcement Learning & Neural Networks in Intelligent Control (available odd years)	MTH 2350		X		
ISE 3940	1-3	Engineering Internship	Junior status, Department permission	As arranged			
ISE 4830	3	Engineering Project Management and Applications	ISE 2211 or STT 3600				X
ISE 4940	1-3	Engineering Internship	Senior status, Department permission	As arranged			
ISE 4950	1-5	Undergraduate Research in ISE II	Department Permission	As arranged			
ISE 4960	1-4	Departmental Honors Research in ISE	Research Proposal, Department Permission	As arranged			
ISE 4980	1-5	Undergraduate Special Topics in ISE II	Varies with topic	As scheduled			
ISE 4990	1-5	Undergraduate Independent Study in ISE	Department permission	As arranged			
SCM 3340	3	Global Supply Chain Management	SCM 3070			X	
SCM 4250	3	Supply Chain Information Management	SCM 3070			X	
SCM 4600	3	Supply Management	SCM 3070		X		
MTH 3000 or higher		from list of Mathematics Minor Requirements	Varies by course	Varies by course			

*ISE 4950, ISE 4960, or ISE 4990 may be used to fulfill one technical elective requirement. Students may not use more than one of these courses to fulfill multiple technical elective requirements.