

## Electrical and Computer Engineering Course Prerequisite(s) and Corequisite(s)

Courses		Prerequisites	Corequisites
EGR 101	Intro to Engineering		
EGR 102	Intro to Stru'd Programming	EGR 101	
EGR 204	Engineering Ethics & Safety		
EGR 213	Digital Electronics		EGR 220
EGR 218	Circuit Analysis I	PHY 204, MAT 152	EGR 220, MAT 260
EGR 220	Circuit Analysis I Lab (ECE Lab I)	PHY 216	EGR 218
EGR 303	Engineering Materials	PHY 203 & CHE 201	
EGR 307	Engineering Analysis III	EGR 102, EGR 208	
EGR 315	Engineering Economy	MAT 130 or MAT 151	
EGR 406	Survey of Nanotechnology	EGR 303 or CHE 202 or instructor approval	
ELN 101	Intro Computer for ECE		
ELN 215	Computer Architecture I	EGR 213	
ELN 302	Circuit Analysis II	EGR 218	
ELN 303	Engineering Electronics I	EGR 218	ELN 311
ELN 304	Engineering Electronics II	ELN 303	
ELN 306	Electromagnetic Waves	ELN 302, MAT 251	ELN 313
ELN 307	Signals & Systems	ELN 302	
ELN 310	Circuit Analysis Lab II	EGR 220	
ELN 311	Engineering Electronics Lab I	EGR 220	
ELN 313	Electro-Optical Communications Lab	ELN 310	ELN 306
ELN 403	Digital Logic Design	EGR 213, EGR 218	
ELN 404	Semiconductor Electronics	ELN 303, EGR 303	
ELN 408	Intro. To Control Systems	ELN 307	ELN 433
ELN 409	Electrical Engineering Design I	ELN 303, ELN 307, ELN 311 or Chair Approval	
ELN 411	Energy Conversion	ELN 302	ELN 433
ELN 412	Communication Theory	ELN 307	ELN 313
ELN 413	Electrical Engineering Design II	ELN 409	
ELN 415	Computer Architecture II	ELN 215, CSC 152, or instructor approval	
ELN 417	Computer Networks	ELN 101, EGR 213, or instructor approval	
ELN 433	Electromechanical/Controls Sys Lab	ELN 310	ELN 408
ELN 471	Electronics & Photonics Devices	ELN 303, EGR 303	
ELN 472	Intro to Lasers	ELN 306 or ELN 471	
ELN 515	Microcontrollers/Embedded System	EGR 213 and ELN 302; or ELN403	
ELN 482	Computer Engineering Design I	ELN 403 and ELN 307	
ELN 483	Computer Engineering Design II	ELN 482	
ELN 360	Intro Cyber Phy Systems Security	ELN 101, EGR 101	
ELN 362	Computer Network Security	ELN 101, EGR 213	
ELN 460	Embedded Systems Security	ELN 215	
ELN 462	Quantum Communication Systems	ELN 307	