

Semester 1- Fall	Course Title	Credits	Term	Grade	Comment
ENGL 101	Composition & the Spoken Word [GER 1 &2]	3			
MATH 123	Pre-Calculus [GER 4]	4			
SOET 116	Introduction to CAD and Design	2			
ELEC 161	Electronic Fabrications	2			
ELEC 101	Electric Circuits I	3			
ELEC 109	Electric Circuits I Lab	1			
15					
Semester 2-Spring					
ELEC 141	Industrial Controls	2			
ELEC 102	Electric Circuits II	3			
ELEC 129	Electric Circuit II Lab	1			
MATH 161	Calculus I [GER 4]	4			
ELEC 165	Digital Fundamentals & Systems	3			
ELEC 166	Digital Fundamentals & Systems Lab	1			
14					
Semester 3- Fall					
ELEC 215	Electrical Energy Conversion	4			
ELEC 213	Microprocessors	3			
ELEC 231	Electronic Circuits	4			
❖	Computer Programming Elective	2			
MATH 162	Calculus II [GER 4]	4			
17					
Semester 4- Spring					
ELEC 243	Computer Automated Control Systems	2			
SOET 377	Engineer Ethics	1			
MATH 141	Statistics I [GER 4]	3			
PHYS 125/135	College/University Physics I Lab [GER 5]	1			
PHYS 121/131	College/University Physics I [GER 5]	3			
ELEC 225	Telecommunications	3			
MATH 263	Calculus III [GER 4]	4			
17					
Semester 5- Fall					
PHYS 122/132	College/University Physics II [GER 5]	3			
ELEC 343	Advanced Circuit Analysis	3			
ELEC 380	Communication Networks	3			
GER (3)	Diversity Elective Course	3			
PHYS 126/136	College/University Physics II Lab [GER 5]	1			
MATH 364	Differential Equations [GER 4]	4			
17					
Semester 6- Spring					
ELEC 332	Industrial Power Electronics	3			
ECON 370	Engineering Economics	3			
ELEC 383	Power Transmission and Distribution	3			
SOET 348	Engineering Safety	1			
	Program Elective	3			
	GER course [6,7,8,9,10,11]	3			
16					

Semester 7- Fall					
SOET 361	Project Management	3			
	Program Elective	3			
ELEC 385	Electronic Communications I	3			
ELEC 416	Microelectronics Circuit Design	3			
	GER course [6,7,8,9,10,11]	3			
15					
Semester 8-Spring					
	Program Elective	3			
ELEC 477	Capstone Project	3			
ELEC386	Electronic Communications II	3			
ELEC 436	Biomedical Electronics	3			
	GER course [6,7,8,9,10,11]	3			
15					
Total Credits: 126					

Program Electives

ELEC 375 Fiber Optic Communications	MECH 342 Thermodynamics
PHYS 301 Introduction to Photonics	AREA 340 Geothermal Energy
SOET 373 Management Telecommunications	MATH Minor Courses: 341, 361, 351, 371, 461 SOET374 Industrial Management SOET 349 Industrial Safety and Health ELEC 355 Embedded Electronics
ELEC 405 Satellite Communications	
MECH 351 Design of Experiments	
AREA 303 Wind Turbines	ELEC 379 Digital Signal Processing
❖ Computer Programming Electives: CITA 180, CITA 342, CITA 380, or as Recommended by department chair.	
Or Elective course approved by the program coordinator	

Graduation requirements: 126 semester credit hours with a G.P.A of 2.0 minimum