

Individual Graduation Plan
A40180B – Electrical Engineering Technology (2+3 for UNC-Charlotte)
 Fall 2020

Student Name: _____

Student No: _____

The Electrical Engineering Technology curriculum is designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects. Course work includes mathematics, natural sciences, engineering sciences and technology. Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, construction technicians and managers, industrial and technology managers, or research technicians. A course of study that prepares the students to apply basic engineering principles and technical skills in electrical maintenance and management or in the design, planning, construction, development, and installation of electrical systems, machines, and power generating equipment. Includes instruction in electrical circuitry, prototype development and testing, systems analysis and testing, systems maintenance, instrument calibration, and report preparation. Graduates may seek employment as technicians, engineering assistants, technical managers, or salespersons in electrical generation/distribution, industrial maintenance, electronic repair, or other fields requiring a broad-based knowledge of electrical and electronic concepts.

Supplemental Requirements

(Supplemental pre- and corequisite requirements may be waived based on high school grade point average, placement scores, course selection, etc.)

Year	Semester	Grade	Course #	Course Title	Hrs	Prerequisites	Corequisites
			ENG 002 <i>or</i> BSP 4002	Transition English	0-3		
			MAT 003 <i>or</i> BSP 4003	Transition Math	0-3		
			ENG 011	Writing and Inquiry Support	2		
			MAT 071	Precalculus Algebra Support	2		

Curriculum Program Requirements

1st Semester

Year	Semester	Grade	Course #	Course Title	Hrs	Prerequisites	Corequisites
			ACA 122	College Transfer Success	1		
			ELC 120	Intro to Wiring	3		
			ELC 138	DC Circuit Analysis	4		
			ENG 111	Writing & Inquiry	3*	ENG 002 or BSP 4002	ENG 011
			MAT 171	Precalculus Algebra	4*	MAT 121, MAT 003 or BSP 4003	MAT 071

2nd Semester

Year	Semester	Grade	Course #	Course Title	Hrs	Prerequisites	Corequisites
			CSC 134	C++ Programming	3		
			ELC 117	Motors and Controls	4		
			ELN 133	Digital Electronics	4		
			MAT 172	Precalculus Trigonometry	4	MAT 171	

3rd Semester

Year	Semester	Grade	Course #	Course Title	Hrs	Prerequisites	Corequisites
			_____	Communication Choice (Choose from COM 120, COM 231 or ENG 112)	3*	Varies	
			_____	Humanities/Fine Arts Choice (Choose from ART 111, ART 114, ART 115, PHI 240 or REL 110)	3*	Varies	

4th Semester

Year	Semester	Grade	Course #	Course Title	Hrs	Prerequisites	Corequisites
			ELC 128	Intro to PLC	3	ELC 117 or ELC 131	
			ELC 139	AC Circuit Analysis	4	ELC 131 or ELC 138	
			MAT 271	Calculus I	4	MAT 172	
			PHY 151	College Physics I	4	MAT 171 or MAT 271	

5th Semester

Year	Semester	Grade	Course #	Course Title	Hrs	Prerequisites	Corequisites
			ELN 131	Analog Electronics I	4	ELC 139	
			ELN 232	Intro to Microprocessors	4	ELN 133	
			PHY 152	College Physics II	4	PHY 151	
			_____	Social/Behavioral Sciences Choice (Choose from HIS 131, HIS 132, POL 120, PSY 150 or SOC 210)	3*	ENG 002 or BSP 4002	
			_____	Work-Based Learning Choice (Choose from WBL 110 or WBL 111)	1		

* Hours may be required as indicated by high school grade point average/placement scores increasing the number of semester hours required for program completion.

TOTAL PROGRAM HOURS REQUIRED = 67
Total Supplemental Hours Required * = | —
Total Hours Required = | —

Notes:

_____ . _____
Student Signature . *Date*

_____ . _____
Advisor/Counselor Signature . *Date*