

# ELECTRONIC ENGINEERING TECHNOLOGY, Associate in Science Degree - 4580

*Engineering & Technology Department*

The Electronic Engineering Technology AS prepares students to enter the job market as electronic or electro-mechanical technicians working with electrical or electronic systems, digital systems, and computer equipment. Students are able to complete the design and construction of many different electronic circuits as part of their laboratory work in each of the electronics courses. In addition, many students are able to work on projects in robotics, personal computer rebuilding, and various circuit designs as on-going projects over the course of several semesters. The complete program is only available at the Harrisburg Campus.

### *Career Opportunities*

Graduates of the program enter the electrical or electronic job market as high-level service technicians. They assist the engineering staff in the design, construction, and testing of prototype equipment manufactured in today's advanced technologies.

### *Competency Profile*

This curriculum is designed to prepare students to:

- Assist in the design and development of new devices
- Install, operate, service, and maintain complex electrical and electronic equipment
- Prepare reports, specifications, and manuals under the direction of scientists and engineers
- Identify global and ethical engineering issues

### **PROGRAM REQUIREMENTS (TOTAL CREDITS = 62)**

General Education		Major Requirements		Other Required Courses	
ENGL 101 English Composition I	3	CAD 154 Computer Aided Drafting & Design	3		
ENGL 104 Technical Writing	3	ELEC 100 Fundamentals of Electricity and Electronics	1		
COMM 101 Effective Speaking	3	ELEC 101 Equipment Utilization	1		
Humanities & Arts Elective	3	ELEC 106 Fundamentals of Electronics	4		
Mathematics Elective - MATH 103	3	ELEC 108 Applied Digital Electronics	3		
Mathematics <b>or</b> Science Elective - MATH 104	3	ELEC 111 AC/DC Circuits I	4		
Science w/ a Laboratory Elective (Rec: PHYS 201)	3	ELEC 126 Installing and Troubleshooting PCs	4		
Social & Behavioral Science Elective	3	ELEC 203 Electronic Circuit Design	4		
First-Year Seminar Elective - ENGR 102	2	ELEC 211 AC/DC Circuits II	4		
Wellness	1	ELEC 213 Digital Electronics	4		
	27	ENGR 208 Microcontrollers & PLCs	3		
			35		

### **RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS**

Part-time students can complete this program by taking one or more courses each semester.

Fall Semester I	Spring Semester I	Summer	Fall Semester II	Spring Semester II
CAD 154 3	ELEC 111 4	ELEC 211 4	ELEC 106 4	COMM 101 3
ELEC 100 1	ENGL 104 3		ELEC 108 3	ELEC 203 4
ELEC 101 1	ENGR 208 3		ELEC 126 4	ELEC 213 4
ENGL 101 3	MATH 104 3		Science w/ a Lab Elective 3	Humanities/Arts Elective 3
ENGR 102 2				Wellness 1
MATH 103 3				
Social/Behavioral Science Elective 3				

### **SUGGESTED ADDITIONAL SEQUENCE FOR STUDENTS TRANSFERRING TO A BSEET PROGRAM**

Fall Semester III for transfer students	Spring Semester III for transfer students
CHEM 101 (Inorganic Chemistry) 4	Transfer Electives* 6
Transfer Elective* 3	MATH 121 (Calculus I) 4
MATH 119 (Pre-Calculus, 12 Week Session) 4	PHYS 202 (General Physics II) 4
PHYS 201 (General Physics I) 4	Wellness (PSU Only) 1
Wellness (PSU Only) 1	Total Credits 15
Total Credits 16	

*\*Students are to select courses for their intended transfer institution.*