

ELECTRONIC ENGINEERING TECHNOLOGY, Associate in Science Degree - 4580

Engineering, Trades & Computer Technologies Department

CIP Code: 15.0303

The Electronic Engineering Technology AS Program prepares students to enter the job market in entry-level positions working with a variety of electronic systems in digital electronics, automation and power. Graduates are expected to qualify as electronics technicians and aides to Engineers. Students are able to complete the construction of a variety of electronic circuits involving semiconductors, programming, AC signals and various circuit designs. This program may be completed at the Harrisburg Campus through on-campus/in-person instruction.

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 = 60)

General Education		Major Requirements		Other Required Courses	
ENGL 101 English Composition I	3	CAD 154 Computer-Aided Drafting & Design	3	CPS 121 Intro to Computer Programming – JAVA	3
ENGL 104 Technical Writing	3	ELEC 100 Fundamentals of Electricity and Electronics	1		
COMM 101 Effective Speaking	3	ELEC 106 Fundamentals of Electronics	3		
Humanities & Arts Elective Core Elective	3	ELEC 111 AC/DC Circuits I	4		
Mathematics Elective Core Elective – <i>MATH 103 or 116</i>	3 or 4	ELEC 203 Electronic Circuit Design	4		
Mathematics or Science Core Elective – <i>MATH 104</i>	3	ELEC 211 AC/DC Circuits II	4		
Science w/ a Laboratory Core Elective - (<i>Rec: PHYS 201</i>)	3	ELEC 213 Digital Electronics	4		
Social & Behavioral Science Core Elective	3	ELEC 220 Microprocessors & Embedded Sys	4		
First-Year Seminar Elective - <i>ENGR 102</i>	2	ENGR 208 Microcontrollers & PLCs	3		
Wellness Elective	1		30		
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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		Fall Semester II		Spring Semester II	
CAD 154	3	ELEC 111	4	CPS 121	3	COMM 101	3
ELEC 100	1	ENGL 104	3	ELEC 106	3	ELEC 203	4
ENGL 101	3	ENGR 208	3	ELEC 211	4	ELEC 220	4
ENGR 102	2	MATH 104	3	ELEC 213	4	Science w/ a Lab Core Elective	3
Humanities/Arts Core Elective	3	Social/Behavioral Science Core Elective	3	Wellness Elective	1		
MATH 103 or 116	3 or 4						