

# ELECTRICAL AND ELECTRONIC ENGINEERING TECHNOLOGY, AAS

## Associate of Applied Science in Electrical and Electronic Engineering Technology (286001AAS)

### Program Contact

Dr. David Roke  
Interim Department Chair  
Schrank Hall (South) 123  
330-972-6813  
roke@uakron.edu

### Program Information

This program prepares individuals for work as technicians in developing, manufacturing, installing, testing and maintaining electrical and electronic equipment and systems.

### Career Information

The demand by industry for electronic technicians is now and will continue to be great. It is estimated that thousands of new electronic technicians will be required each year. Electronic technicians find employment in many areas of the electronics field; some of the specific career opportunities include:

- *Computer Technician* - installation, implementation, maintenance of data processing hardware and systems.
- *Engineering Aide* - assists engineers in the design, development, and testing of new electronic equipment.
- *Customer-Service Technician* - installs, operates, and maintains electronic equipment located at the customer's installation. Also provides training for the customer's personnel.
- *Communications Technician* - installs and operates various types of commercial and govt. communications equipment.
- *Plant Technician* - works in electronic manufacturing operations in designing and setting up quality control and other tests for manufactured products. Also may supervise and train electronic production workers

### Placement or Optional Cooperative Education

Co-op work experiences are available on an optional basis in this academic program. To obtain additional information contact the Career Center regarding these opportunities.

For additional information regarding career opportunities in the Electronic Engineering Technology field, please visit the Bureau of Labor Statistics at [www.bls.gov](http://www.bls.gov) (<http://www.bls.gov>) or the Career Center at the Student Union, room 211, (330-972-7747) <http://www.uakron.edu/career> (<http://www.uakron.edu/career/>)

### Bachelor Degree Programs

Upon completion of the Electrical and Electronic Engineering Technology Associate of Applied Science Degree, a student may proceed to the Electrical and Electronic Engineering Technology Bachelor of Science Degree. Please refer to the Electrical and Electronic Engineering Technology Bachelor of Science degree Curriculum Guide for further information.

The following information has official approval of **The Department of Engineering and Science Technology** and **The College of Engineering and Polymer Science**, but is intended only as a supplemental guide. Official degree requirements are established at the time of transfer and admission to the degree-granting college. Students should refer to the Degree Progress Report (DPR) which is definitive for graduation requirements. *Completion of this degree within the identified time frame below is contingent upon many factors, including but not limited to: class availability, total number of required credits, work schedule, finances, family, course drops/withdrawals, successfully passing courses, prerequisites, among others.* The transfer process is completed through an appointment with your academic advisor. Transfer students should consult their Advisor to identify courses that are equivalent.

#### 1st Year

Fall Semester		Hours
2020:121	English	3
2030:153	Technical Mathematics III	2
2420:263	Professional Communications and Presentations	3
2860:120	Circuit Fundamentals (Sch. Lab) <sup>1</sup>	4
2860:121	Introduction to Electronics and Computers (Sch. Lab) <sup>1</sup>	2
Hours		14

#### Spring Semester

2030:154	Technical Mathematics IV	3
2820:160	Technical Physics: Mechanics (Sch. Lab)	4
2860:122	AC Circuits (Sch. Lab) <sup>2</sup>	3
2860:123	Electronic Devices (Sch. Lab) <sup>2</sup>	4
Hours		14

#### 2nd Year

Fall Semester		
2030:255	Technical Calculus I	3
2040:240	Human Relations	3
2860:225	Applications of Electronic Devices (Sch. Lab) <sup>1</sup>	4
2860:237	Digital Circuits (Sch. Lab) <sup>1</sup>	4
2860:242	Machinery & Controls (Sch. Lab) <sup>1</sup>	3
Hours		17

#### Spring Semester

2040:243	Contemporary Global Issues	3
2040:244	Death & Dying	2-3
or 2040:254	or The Black Experience from 1619-1877	
or 2040:256	or Diversity in American Society	
or 2040:257	or The Black Experience 1877 - 1954	
or 2040:258	or The Black Experience 1954 - Present	
2820:164	Technical Physics: Heat & Light (Sch. Lab)	2

2860:238	Microprocessor Applications (Sch. Lab) <sup>2</sup>	4
or 2860:251	or Electronic Communications	
2860:260	Electronic Project (Sch. Lab) <sup>2</sup>	2
	Technical Elective <sup>3</sup>	3
Hours		16-17
Total Hours		61-62

<sup>1</sup> Traditionally Fall course offering only (See Program Contact).

<sup>2</sup> Traditionally Spring course offering only (See Program Contact).

<sup>3</sup> Technical Electives: Availability dependent on enrollment demands and classroom availability. Technical Electives are defined as courses outside of the Electronic Engineering Technology Program that supports a student's career interest. The following list shows approved technical electives. Some courses listed may involve prerequisites. Any course taken that is not on the following list must be approved by the Program Director in writing in order to be considered a technical elective.

**Policy Alert: By the end of your first 48 credit hours attempted, you must have completed your required General Education English, Mathematics, and Communications (Speech) requirements.**

## Technical Electives

Code	Title	Hours
2870:332	Management of Technology Based Operations	3
2880:110	Manufacturing Processes	3
2920:101	Introduction to Mechanical Design	3
2920:121	Fundamentals of Engineering Drawing	3
2920:310	Economics of Technology	3
2880:140	Computer Aided Drawing	3
2880:230	3-D Modeling & Design	3
2980:101	Basic Surveying	3
2985:101	Introduction to Geographic & Land Information Systems	3
2990:125	Statics	3
2990:150	Plan Reading	2
2860:290	Special Topics: Electronic Engineering Technology	1-4