

**THE UNIVERSITY OF AKRON  
AKRON OHIO  
SUMMIT COLLEGE**

**ELECTRONIC ENGINEERING TECHNOLOGY  
2860: Associate of Applied Science Degree**

Accredited by the Technology Accreditation Commission of the ABET, Inc.,  
111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - Telephone (410) 347-7700.

**FIRST YEAR****Fall Semester**

		<b><u>Credit Hours</u></b>	<b><u>Prerequisites</u></b>
2020:121	English	4	Placement test
2030:152	Technical Mathematics II	2	2030:151 with grade of C- or better or placement test
2030:153	Technical Mathematics III	2	2030:152 or equiv with grade of C- or better or placement test
2040:240	Human Relations	3	
2860:120	Circuit Fundamentals (Sch. Lab)	4	2030:152, 153 & 2860:121 coreqs
2860:121	Intro. to Electronics and Computers (Sch. Lab)	<u>2</u>	2030:151
		17	

**Spring Semester**

2030:154	Technical Mathematics IV	3	2030:153 or equiv with grade of C- or better or placement test
2020:222	Technical Report Writing	3	2020:121
2820:161	Technical Physics: Mechanics I (Sch. Lab)	2	2030:153 corequisite
2820:162	Technical Physics: Mechanics II (Sch. Lab)	2	2820:161 prerequisite
2860:122	AC Circuits (Sch. Lab)	3	2030:153 coreq.
2860:123	Electronic Devices (Sch. Lab)	<u>4</u>	2030:154 coreq; 2860:120 prereq.
		17	2860:120

**SECOND YEAR****Fall Semester**

2030:255	Technical Calculus I	3	2030:154 or equiv with grade of C- or better or placement test
2860:225	Applications of Electronic Devices (Sch. Lab)	4	2860:123 & 2030:154
2860:237	Digital Circuits (Sch. Lab)	4	2860:123 & 136
2860:242	Machinery & Controls (Sch. Lab)	3	2860:120 & 121 or 370
2940:210	Computer Aided Drawing I	<u>3</u>	
		17	

**Spring Semester**

2040:242	American Urban Society	3	
2820:164	Technical Physics: Heat & Light (Sch. Lab)	2	2820:161 & 2030:153
2860:238	Microprocessor Applications (Sch. Lab)	4	2860:237
2860:251	Electronic Communications (Sch. Lab)	4	2860:225
2860:260	Electronic Project (Sch. Lab)	2	Final semester and 2940:210 or permission
2870:301	Computer Control of Automated Systems	<u>3</u>	
		18	

**TOTAL CREDITS = 69**

**Program Description**

The rapid increase in the application of science and engineering to the needs of our economy has greatly intensified the demand not only for engineers and scientists, but also for the technicians who assist them. Engineering technicians make up one of the fastest growing occupational groups in the United States and are employed in virtually every activity where technical know-how is required. Their work requires the application of scientific and mathematical theory as well as specialized knowledge and skills in some aspect of technology. The engineering technician may become involved with electronic and mechanical instruments, experimental apparatus, computing devices, tool design, manufacturing and drafting. As part of the engineering team, the technician contributes to the technological progress and high level of productivity which characterizes our industry today.

The Electronic Engineering Technology curriculum is one of a number of associate degree programs offered through the SUMMIT COLLEGE of The University of Akron. The program requires two years of full-time study and leads to the Associate of Applied Science Degree in Electronic Engineering Technology. The program may also be undertaken on a part-time evening basis generally requiring more than two years for completion. Both day and evening programs meet the standards of the Technology Accreditation Commission of ABET, Inc. (TAC/ABET) and are accredited by that organization.

The program is designed to prepare the individual to become a competent electronic technician capable of working and communicating with engineers, scientists, and production personnel. The first year provides a firm foundation in mathematics, electricity, and basic electronics. The second year builds directly on this background with applied electronic courses in such areas as computers, communications, controls, and instrumentation. Although the curriculum prepares the student for immediate technical employment, a portion is devoted to non-technical subjects in order to assist the individual in developing as a citizen and responsible human being.

**Career Opportunities Available**

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.

Additional career opportunities are available to the associate degree technician who wishes to continue his/her education through the baccalaureate level. The University of Akron offers a Bachelor of Technology degree program requiring two years of study beyond the associate degree program.

**Placement or Optional Cooperative Education**

Students are encouraged to check with their major department and with the Center for Career Management (330-972-7747) regarding these opportunities.