Effective: Fall 2015 **Last Updated: 5/19/15**

College of Applied Science and Technology
ELECTRONIC ENGINEERING TECHNOLOGY 286001AAS

Associate of Applied Science Degree

Web Link: http://www.uakron.edu/summitcollege/engineering_tech/electronic-engineering-tech/index.dot

Accredited by the Technology Accreditation Commission of ABET, http://www.abet.org

The following information has official approval of the **College of Applied Science & Technology**, but is intended only as a guide. Official degree requirements are established at the time of transfer and admission to the degree-granting college. *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.*

Italicized courses fulfill General Education requirements. http://www.uakron.edu/advising/docs/General_Education_Guide.pdf

1st Year	**Fall Semester**	Credit Hours	Prerequisites
2020:121	*English*	3	Placement by Advisor
2030:153	*Technical Mathematics III*	2	2030:152 with grade of C- or better or appropriate placement by Advisor
2040:240	*Human Relations (Social Science Requirement)*	3	
2860:120	Circuit Fundamentals (Sch. Lab) Note a.	4	2030:152, 2030:153, 2860:121 co-requisites
2860:121	Intro. to Electronics and Computers (Sch. Lab) Note a.	2	2030:151 prerequisite, 2860:120 co-requisites
xxxx:xxx	*Area Studies/Cultural Diversity Requirement*	2	
Total		**16**	

1st Year	**Spring Semester**		
2030:154	Technical Mathematics IV	3	2030:153 with grade of C- or better or appropriate placement by Advisor
2820:161	*Technical Physics: Mechanics I (Sch. Lab) (Natural Science Requirement)*	2	2030:153 co-requisite
2820:162	*Technical Physics: Mechanics II (Sch. Lab) (Natural Science Requirement)*	2	2820:161 2030:153 prerequisite
2860:122	AC Circuits (Sch. Lab) Note b.	3	2860:120 prerequisite, 2030:154 co-requisite
2860:123	Electronic Devices (Sch. Lab) Note b.	4	2860:120 prerequisite
2420:263	*Professional Communications & Presentations*	3	
Total		**17**	

2nd Year	**Fall Semester**		
2030:255	Technical Calculus I	3	2030:154 with grade of C- or better or appropriate placement by Advisor
2860:225	Applications of Electronic Devices (Sch. Lab) Note a.	4	2860:123, 2030:154
2860:237	Digital Circuits (Sch. Lab) Note a.	4	2860:123, 2860:136
2860:242	Machinery & Controls (Sch. Lab) Note a.	3	2860:120 & 2860:121 or 2860:370 (previously 270)
Total		**14**	

2nd Year	**Spring Semester**		
2040:242	*American Urban Society (Social Science Requirement)*	3	
2820:164	*Technical Physics: Heat & Light (Sch. Lab) (Natural Science Requirement)*	2	2820:161, 2030:153
2860:238 2860:251	Microprocessor Applications (Sch. Lab) Note b. -OR- Electronic Communications (Sch. Lab) Note b.	4	2860:237
2860:260	Electronic Project (Sch. Lab) Note b.	2	Final semester and 2940:210 or permission
xxxx:xxx	Technical Elective	**3**	
Total		**14**	

	Total Credits for Degree	**61 min**	

POLICY ALERT: 1) By the end of your first 48 credit hours attempted, you must have completed your REQUIRED General Education English, Math, and Communications (Speech) requirements.

YOU MUST HAVE A MINIMUM CUMULATIVE GPA OF 2.0 TO GRADUATE WITH THIS DEGREE.

NOTES:
Note a. Traditionally Fall course offering only (See Program Contact)
Note b. Traditionally Spring course offering only (See Program Contact)

PROGRAM CONTACT
Program Director Mr. Andrew E. Milks, Schrank Hall South 221D, 330-972-2449 or amilks@uakron.edu

PROGRAM INFORMATION
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 COLLEGE OF APPLIED SCIENCE & TECHNOLOGY at 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 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.

For additional information, visit the Bureau of Labor Statistics at www.bls.gov or the Career Center at the Student Union, room 211 http://www.uakron.edu/career.

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

An additional degree option is to proceed to the Bachelor of Organizational Supervision degree.

TRANSFER
A student can complete the transfer process by meeting with an Academic Adviser in the College in which they reside.

Thorman/ Milks