

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

ELECTRONIC ENGINEERING TECHNOLOGY

2860: Bachelor of Science Degree

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

(For the first and second years, see Associate of Applied Science program in Electronic Engineering Technology)

THIRD YEAR

Fall Semester

		<u>Credit Hours</u>	<u>Prerequisites</u>
7600:106	Effective Oral Communications	3	
2030:356	Technical Calculus II	3	2030:255 or equiv with grade of C- or better or placement test
2820:111	Introductory Chemistry (Sch. Lab)	3	2030:152 coreq.
3300:112	English Composition II	3	3300:111 (or 2020:121 by Perm.)
	Computer Programming Elective*	2	
2860:350	Advanced Circuit Theory	<u>3</u>	2860:251; 2030:356 Coreq.
		17	

Spring Semester

2860:354	Advanced Circuit Applications	4	2860:350; 2030:356; and one of computer programming electives*
2030:345	Technical Data Analysis	2	2030:154 or equiv with grade of C- or better or placement test
2860:352	Microcontrollers (Sch. Lab)	4	2860:238 Prereq., 350 Coreq.
3400:210	Humanities in the Western Tradition I	4	32 cr. & completion of 3300:112
	Humanities Electives	<u>4</u>	3400:210
		18	

FOURTH YEAR

Fall Semester

2860:453	Control Systems (Sch. Lab)	4	2860:354; 2870:301
2860:400	Computer Simulations in Tech. (Sch. Lab)	3	2860:354, 2030:345
6500:301	Management Principles & Concepts	3	48 completed credit hours
2920:310	Economics of Technology	3	64 credit hours or Perm.
	Humanities Electives	2	
	Area Studies & Cultural Diversity	<u>2</u>	64 credit hours
		17	

Spring Semester

2860:406	Communication Systems	3	2860:251, 354
	Electronic Technology Electives**	3	
6500:330	Production and Operations Management	3	6500:222 and 301 or perm.
	Area Studies & Cultural Diversity	2	64 credit hours
5540:xxx	Physical Education	1	
	Technical Electives***	<u>5</u>	
		17	

Third & Fourth Year Credits	69
Total Credits (Incl. Associate Program)	137

Crs. **Prerequisites**

***Computer Programming Electives**

Choose one of the following courses:

2820:310	Programming for Technologists	2	2030:153; 2820:121
2440:160	Java Programming	3	2440:121
2440:170	Visual Basic Programming	3	2440:121
2440:256	C++ Programming	3	2440:121
3460:126	Intro. to Visual Basic Programming	3	
3460:208	Intro. to C++ Programming	3	
3460:209	Intro. to Computer Science	4	3450:145 with C or better or equiv.
4450:208	Programming for Engineers	3	4400:101 or permission

****Electronic Engineering Technology Electives**

Please note that each of the following classes may be offered only once during the year, including the summer session. Consult with the Schedule of Classes Bulletin for exact scheduling of classes.

2860:290	Special Topics in Electronic Eng. Tech.	1-4	By permission only
2860:420	Biomedical Electronic Instrumentation	3	2860:354
2860:430	Senior Topics in Electronic Technology	3	2860:354, 400
2860:451	Industrial Electrical Systems	3	2860:354; 2820:310
2860:490	Special Topics in Electronic Eng. Tech.	1-4	By permission only

*****Technical Electives**

Technical electives are defined as courses outside of the Electronic Engineering Technology Program that support 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 Coordinator in writing in order to be considered a technical elective.

Choose a minimum of five credit hours from the courses listed below:

2820:112	Introductory & Analytical Chem. (Sch. Lab)	3
2880:110	Manufacturing Processes	3
2880:201	Robotics & Automated Manufacturing	3
2880:211	Computerized Manufacturing Control	3
2870:348	CNC Programming I	3
2870:448	CNC Programming II	3
2870:470	Simulation of Manufacturing Systems	2
2870:480	Automated Production	2
2920:249	Applied Thermal Energy	2
2920:251	Fluid Power	2
2920:252	Thermo Fluids Lab	1
2920:365	Applied Thermal Energy II	3
2940:240	Electrical and Electronic Drafting	3
2980:125	Statics	3
2980:245	Cost Analysis and Estimating	3
3100:200	Human Anatomy and Physiology I	3
3460:208	Introduction to C++ Programming	3
3460:306	Assembly Language Programming	3
2990:357	Construction Administration	2
2990:453	Legal Aspects of Construction	2
2990:463	Electrical Service systems	3