

Electronics Engineering Technology, AAS

GENERAL OPTION

Division of Technologies/Culinary Arts/Mathematics/Sciences



Electronics engineering technology is based on applied physics and mathematics.

Successful completion of this program of study leads to the associate in applied science degree.

Career Opportunities

Recent graduates of the electronics engineering technology program have accepted jobs with the following titles: electrical mechanic, electronics technician, audio technician and tester of electronic equipment.

Competency Profile

This curriculum is designed to prepare students to:

- design and construct basic circuitry based on an in-depth knowledge of electronic circuits and devices
- apply mathematics through elementary integral and differential calculus to the development of ideas based on scientific and engineering principles
- install, maintain and repair electronic circuits and systems using extensive knowledge of laboratory test equipment and procedures
- apply understanding of electronic devices, circuits, systems, and procedures to practical situations
- adapt and extend knowledge of electronics to new devices, circuits and systems
- communicate technological ideas and information with others verbally, graphically and in writing
- accept the role and responsibility of citizenship both within the profession and in society

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PROGRAM REQUIREMENTS (TOTAL CREDITS — 60/61)

General Education			Major			Other Required Courses		
DFT 258	AutoCAD	4	ELC 102	Electronic Devices	4	MTH 109	Math for the Tech. II	4
ENG 161	College Writing	3	ELC 105	Elec. Instru. & Measure. 2	2	PHY 156	College Physics II	4
ENG 162	Technical Commun.		ELC 106	Circuit Analysis I	3			8
	or		ELC 107	Circuit Analysis II	3			
ENG 163	Business Commun.	3	ELC 114	Digital Techniques	4	*Restricted Electives		
	or		ELC 202	Linear Electronics	4	Courses with an ELC prefix		
ENG 164	Advanced Composition		ELC 206	Microprocessors	4			
MTH 108	Math for the Tech. I	4	Restricted Electives*		<u>7/8</u>			
PHY 155	College Physics I	4			31/32			
Social Science Elective		<u>3</u>						
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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		Spring Semester		Fall Semester		Spring Semester	
DFT 258	4	ELC 102	4	ELC 202	4	PHY 156	4
ELC 105	2	ELC 107	3	ELC 206	4	Restricted Elective	4
ELC 106	3	ELC 114	4	ENG 162, 163 or 164	3	Restricted Elective	3/4
ENG 161	3	MTH 109	<u>4</u>	PHY 155	<u>4</u>	Social Science Elective	<u>3</u>
MTH 108	<u>4</u>		15		15		14/15
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Tech Prep Option

Tech Prep articulation agreements exist between WCCC, Central Westmoreland Career and Technology Center, Eastern Westmoreland Career and Technology Center, and Northern Westmoreland Career and Technology Center. Contact the WCCC Tech Prep Office for a list of courses articulated or enhanced courses.