ELECTRONICS ENGINEERING TECHNOLOGY

Associate in Applied Science A.A.S.: Electronics Engineering Technology Degree

This 60 credit-hour program is designed to prepare students for careers in the field of electronics and other related technology industries. The curriculum satisfies general education requirements, and offers courses in mathematics, computer science and physics to cultivate student critical thinking skills. A broad range of electronics courses provides considerable emphasis on analysis and application, or applied technology. Specific electronics engineering technology topics for this program include: electrical laws and principles, network analysis, semiconductor devices, digital and analog circuits, communications systems, industrial control systems utilizing sensors, fluid power and programmable logic controllers, and embedded microcontroller/processor systems. Additional courses in the industrial electronics area are also available.

Graduates of this program may find employment as technical sales specialists, applications engineers, engineering laboratory technicians, technical writers, manufacturing and quality control technicians, and customer service engineers.

Graduates may also continue their education by pursuing a Bachelor of Science in Electronics Engineering Technology (BSEET) degree at a four-year college or university offering this type of program. Students considering this transfer option are encouraged to meet with the Program Coordinator and an academic advisor prior to beginning the program, and also when planning their schedule each semester.

F = Fall only course S = Spring only course U = Summer only course

FIRST SEMESTER:

Number	Course Title	Credits	Course Category
ELT 101	DC Network Analysis **(F)**	4	Program Requirement
ELT 110	Introductory Electronics	4	Program Requirement
ENG 101	Composition I	3	AAS General Education
MTH 103	College Algebra	3	AAS General Education

SECOND SEMESTER:

Number	Course Title	Credits	Course Category
CIS 106	Computer Logic and Programming Technology or		
NET 105	Information Technology Fundamentals	3	Program Requirement
ELT 102	AC Network Analysis **(S)**	4	Program Requirement
ELT 111	Semiconductor Devices and Circuits **(S)**	2	Program Requirement
ELT 135	Optics and Sensors	2	Program Requirement
MTH 140	Precalculus	5	AAS General Education

THIRD SEMESTER:

Number	Course Title	Credits	Course Category
ELT 140	Introduction to Programmable Logic Controllers	2	Program Requirement
ELT 203	Digital Electronics **(F)**	4	Program Requirement
	Humanities or Social and Behavioral Science+	3	AAS General Education
PHY 121	Introductory Physics I	5	AAS General Education

FOURTH SEMESTER:

Number	Course Title	Credits	Course Category
ELT 207	Communications Systems **(S)**	4	Program Requirement
ELT 215	Industrial Control Systems	4	Program Requirement
ELT 218	Embedded Microcontroller/Processor Systems **(S)**	4	Program Requirement
	Electronics elective[1]	4	Program Requirement

\+ Students need to choose a course to meet this requirement that also meets the World Cultures and Diversity graduation requirement. See full list of AAS General Education Electives.

1 Electronics elective: ELT 240(S) or ELT 281.