Electronic Systems Technology

Associate in Applied Science Degree
66-67 Semester Hours

General Education Requirements

COMM	101	Intro to Oral Communication	3 Hrs
ENGL	101	Composition I	3
MATH	109	College Algebra for Math & Science	4
Or			
TMAT	103	Technical Mathematics I	4
MATH	128	Trigonometry	3
Or			
TMAT	105	Technical Mathematics II*	
Physical Science			4
Social Science/Humanities Elective			3
		TOTAL	20-21

Technical Core Requirements

CSCI	101	Intro to Computer Info Science	4
ELTC	102	DC Electronics	3
ELTC	103	AC Electronics	3
ELTC	206	Digital Electronics & Microprocessors	3
ELTC	207	Solid State Electronics Troubleshooting & Measurements	3
ELTC	220	Data Communications	3
		TOTAL	19

Technical Electives

Specialty Electives** (See Option areas below.) 27

Electronic Systems Option:

CAD	101	Introduction to AutoCAD	3
ELTC	212	Automation & Control Electronics	3
MAIN	201	Electrical Wiring & Maintenance	3
Or			
NETW	208	Data and Cabling Systems	3
MAIN	222	Industrial Controllers	3
NETW	160	Introduction to Networking	3
TECH	114	Introduction to Technical Graphics	3
Electives**			9
		TOTAL	27

Building Automation Option:

CAD	101	Introduction to AutoCAD	3
CNST	103	Building Mechanics	3
ELTC	212	Automation & Control Electronics	3
MAIN	202	Fluid Power Systems	3
MAIN	222	Industrial Controllers	3
NETW	160	Introduction to Networking	3
REEC	110	Green Building Technology	3
REEC	210	Building Automation	3
Elective**			3
		TOTAL	27

Telecommunications Option:

NETW	121	Networking Fundamentals	3 Hrs
NETW	122	Routing Protocols and Concepts	3
NETW	123	Local Area Networks	3
NETW	124	Wide Area Networks	3
NETW	150	Workstation Operating Systems	3
NETW	151	PC Hardware Maintenance & Repair	3
NETW	172	Wireless Networking with Security	3
NETW	208	Data and Cabling Systems	3
NETW	283	Introduction to Voice Over IP	3
		TOTAL	27

Note:
**Students are encouraged to pursue a certificate program in conjunction with the AAS degree. Other electives may be taken as approved by advisor or department.

Career Opportunities

Electronic Systems Technology is a growing field with employment opportunities continuing to grow, especially in niche markets like computers and communications. The electronics field is dynamic and is changing in many fields such as automotive, military, computers, hospital and medical equipment, industry, household appliances, building maintenance, security and surveillance, communications and customer service.

Upon completion of the program, students will be able to seek entry-level employment with manufacturers to produce products or maintain production lines, with computer service departments (within organizations), and with consumer electronics retail stores. Electronics technicians use engineers' plans to design and develop electronic equipment and machinery. They may work on radios, televisions, machine controls, computers, robots, radar or sonar. Some electronics technicians help in the development of electronic products; other technicians are responsible for repairing and servicing defective equipment.

Technology DIVISION

Last update: 02/17/10