## **Electronic Systems Technology**



## Associate in Applied Science 64-66.5 Semester Hours

General Education Requirements hrs				Telecommunications Option			hrs	
COMM		Intro to Oral Communication	3	NETW	121	Networking Fundamentals	3	
<b>ENGL</b>	101	Composition I	3	<b>NETW</b>	122	Routing Protocols and Concepts	3	
MATH	109	College Algebra for Math & Science	4	<b>NETW</b>	123	Local Area Networks	3	
Or				<b>NETW</b>	124	Wide Area Networks	3	
<b>TMAT</b>	103	Technical Math I	4	<b>NETW</b>	150	Workstation Operating Systems	3	
MATH	128	Trigonometry	3	<b>NETW</b>	151	PC Hardware Maintenance & Repair	3	
Or				<b>NETW</b>	172	Wireless Networking with Security	3	
<b>TMAT</b>	105	Technical Math II	4	<b>NETW</b>	208	Data and Cabling Systems	3	
BIOL	121	Essentials of Anatomy & Physiology	4	<b>NETW</b>	283	Introduction to Voice Over IP	<u>3</u> 27	
Or		, , ,				TOTAL	27	
		Physical Science Elective <sup>2</sup>	<u>4</u>					
		TOTAL	17–18	Biomedical Option				
Technical Deguirements				BIOL	191	Biology for Health Careers	3	
Technical Requirements				ELTC	212	Automation and Control	3	
BUSN	145	Employment Success Strategies	1	HLTH	104	BLS for Healthcare Providers	0.5	
CSCI	101	Intro to Computer Info Science	4	HLTH	110	Medical Terminology	3	
ELTC		DC Electronics	3	HLTH	111	Diseases of the Human Body	3	
ELTC		AC Electronics	3	HLTH	202	Professional Issues in Health Care	3	
ELTC		8	3	<b>NETW</b>	160	Introduction to Networking	3	
ELTC	207	Solid State Electronics	_	<b>NETW</b>	150	Workstation Operating Systems	3	
		Troubleshooting & Measurements	3			Technical Elective <sup>3,4</sup>	<u>6</u>	
ELTC	220	Data Communications	<u>3</u>			TOTAL	27.5	
		TOTAL	20					
<b>Electronic Systems Option</b>					Program Description			
CAD	101	Introduction to AutoCAD	3	By enro	lling i	n the Electronic Systems Technology progr	am, you	

3

3

3

3

3

3

3

6

27

By enrolling in the Electronic Systems Technology program, you gain transferable knowledge and skills while studying in an area where there is rapid growth in employment opportunities. As you progress through your classes, you choose to focus on an Electronic Systems, Building Automation, Telecommunications, or Biomedical option. When you complete this program, you can seek employment as a technician in very broad range of areas including industry, business, health care, communications, utilities, government and more.

## **Building Automation Option**

**TOTAL** 

ELTC

MAIN 201

NETW 208

NETW 160

TECH 114

MAIN

MAIN

212

220

222

Building Automation Option							
CAD	101	Introduction to AutoCAD	3				
CNST	103	Building Mechanical & Electrical Systems	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				
		Technical Elective <sup>3</sup>	<u>3</u>				
		TOTAL	27				

Automation & Control Electronics

Electrical Wiring & Maintenance

**Introduction to Technical Graphics** 

Data and Cabling Systems

Introduction to Networking

**Industrial Controllers** 

Technical Elective<sup>3</sup>

Mechatronics

Updated 10/19/13

<sup>&</sup>lt;sup>1</sup>This is the required science elective if you are planning to complete the Biomedical Option of Electronic Systems Technology AAS degree

<sup>&</sup>lt;sup>2</sup>This is the required science elective if you are planning to complete the Electronic Systems, Building Automation, or Telecommunications Options of the Electronic Systems Technology AAS degree

<sup>&</sup>lt;sup>3</sup>Technical electives may be taken as approved by advisor or STEM & Business Division; consider choosing these electives in order to earn additional Skills Certificates

<sup>&</sup>lt;sup>4</sup>Consider choosing to complete an internship at a medical-related organization as part of your Technical Elective hours