

Electronic Systems Technology

Lincoln and Milford Campuses

Associate of Applied Science Degree

ELECTRONIC SYSTEMS TECHNICIAN FOCUS

Types of jobs available:

- Audio technician
- Avionics technician
- Car stereo installer/repairer
- Home theater installer/repairer
- Radio/TV broadcast engineer
- Security systems
- Studio technician
- Telephone technician
- Two-way radio installer/repairer
- Video technician

Students focus on the installation, configuration and repair of commercial and consumer electronic products such as computer systems, video and audio systems, AM/FM broadcast, two-way radio communication systems, avionics, security systems and telephone systems.

ELECTRONIC SYSTEMS MILITARY FOCUS

This focus is for military personnel who have performed the repair and maintenance of various types of electronic equipment during duty. Using that prior military training as the core for this A.A.S. degree, students can take additional educational requirements to prepare for entry and advanced level employment in a wide array of electronic careers.

COMPUTERS, AUTOMATION and NETWORKING SYSTEMS FOCUS

Types of jobs available:

- Electronic systems designer
- Engineering assistant
- Field service technician
- Industrial automation technician
- Network administrator
- Network technician
- PC support technician
- Robotics technician
- Technical manager
- Telemetry technician

Classroom and laboratory activities also prepare technicians to install, configure and repair industrial control systems which include such devices as programmable logic controllers (PLCs), robotics, and vision systems.

Program overview

This program is located on the Lincoln Campus during the day and night and on the Milford Campus during the day.

For more information contact:

Mike Aalberg, Program Chair
402-437-2658, 800-642-4075 ext. 2658 Lincoln
402-761-8217, 800-933-7223 ext. 8217 Milford
maalberg@southeast.edu

or the College Admissions Office
Lincoln 402-437-2600, 800-642-4075 ext. 2600
Milford 402-761-8243, 800-933-7223 ext. 8243

Credit Hours Required for Graduation:

- Electronic Systems Technician Focus 123.0
- Electronic Systems Military Focus 107.0
- Computers, Automation, and Networking Systems Focus 156.5

Electronic Systems Technician Focus:

COURSE #	COURSE TITLE	CREDIT HRS
ELEC1129	DC Electronics	8.0
ELEC1219	AC Electronics	8.0
ELEC1227	Digital Circuits	5.0
ELEC1317	Active Devices	8.0
ELEC1362	Electronic Drafting	1.0
ELEC1422	Analog Circuits	8.0
ELEC1432	Power Supply Systems	3.0
ELEC1482	Advanced Digital Circuits	5.0
ELEC2519	Communication Systems	6.0
ELEC2530	Microprocessor Applications	6.0
ELEC2560	WiFi & RF Transmission Systems	3.5
ELEC2570	Systems Troubleshooting	6.0
ELEC2640	Advanced Communication Systems	4.5
ELEC2735	Advanced Microprocessor Applications	4.5
ELEC2750	Advanced Systems Troubleshooting	4.5
ELEC2753	PC Operating Systems	6.5
ELEC2760	Networking Infrastructure (CCNA 1)	4.5
ELEC2860	LAN Switching and Wireless (CCNA 3)	4.0
ACFS2020	Career Development	2.5

98.5 hours

Computer Course Requirements

A minimum of 2 credit hours in word processing and spreadsheets.

Suggested courses:

INFO1117	Microcomputer Applications	2.0
	or	
INFO1121	Microsoft Word & PowerPoint and	1.5
INFO1131	Microsoft Excel	1.5

Or if considering transfer to another institution:

BSAD1010	Microsoft Applications I	4.5
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2.0 hours

Electronic Systems Military Focus:

COURSE #	COURSE TITLE	CREDIT HRS
ELEC2099	Military Service Electronics Training	30.0-60.0*
	Technical Electives	22.5-52.5*
	General Education Requirements	22.5
	Computer Requirement	2.0

107.0 hours

*Depends on Military Training Transcript.

The student, with approval of the program chair, will complete a set of SCC ELEC courses. The student and program chair will select courses that will enhance technical expertise.

Computers, Automation and Networking Systems Focus:

(Electronic Systems Technician classes) 100.5
(General Education requirements) 22.5

COURSE #	COURSE TITLE	CREDIT HRS
ELEC2755	Structured Programming for Electronic Technicians	4.5
ELEC2761	Router Implementation (CCNA 2)	4.0
ELEC2823	Network Operating Systems & Administration	9.0
ELEC2853	Hydraulics and Pneumatics	2.5
ELEC2861	Wide Area Networking (CCNA 4)	4.0
ELEC2863	PLCs and Automation	6.5
ELEC2883	Robotics and Vision Systems	3.0

33.5 hours

General Education Requirements:

Contact your program advisor to select general education course/s from each category which will meet your program's graduation requirements. See page 16 for complete list.

(One class from each area below).

Oral Communications	4.5
Written Communications	4.5
Mathematics	
MATH1080 or higher	4.5
Science	
PHYS1017 or PHYS1150 or PHYS1410	4.5
(Plus one class from one of the two areas below).	
Social Science or Humanities	4.5

22.5 hours

