



2007-2008 Career Planning Guide

ELECTRONICS ENGINEERING TECHNICIAN

Maritime Specialist – Articulated with the United States Navy

Spokane Community College

Spokane Community College
1810 North Greene Street
Spokane, Washington 99217-5399
www.scc.spokane.edu

Completion Award: A.A.S. Degree, Certificate

Start: Fall, Winter, Spring

Tuition and Fees: <http://www.ccs.spokane.edu/fees.html>

Approximate Quarterly Cost: (subject to change without notice)

Books	\$	140
Supplies and Equipment	\$	80

PROGRAM WEBSITE: <http://www.scc.spokane.edu/?elect>

Program Description

The electronics industry of today's highly technological world needs technicians prepared for the dynamic field of microcomputer-based electronic equipment maintenance. The program provides a seven-quarter, comprehensive curriculum to prepare students to meet this need.

State-of-the-art concepts are taught as well as practical laboratory techniques, which provide the circuit analysis skills necessary for electronic technicians. Also included are studies in communication skills and human relations skills.

Flexibility is provided to the student who would opt to receive only a certificate of completion in electronics. This certificate is offered after successful completion of four specific quarters of electronics study and related courses.

The Associate in Applied Science (A.A.S.) degree option is most advantageous in securing employment in the electronics industry. To qualify for this degree, students must successfully complete specific electronic courses, as well as student-selected advanced electronic options for a total of seven quarters of study. The degree candidate must also successfully complete specific related courses.

This option is for students who earn a certificate at Spokane Community College and complete the A.A.S. degree while on active duty with the United States Navy.

Last quarter in residence requirement is waived.

NOTE: The first quarter may be completed through High School Tech Prep classes. Students must complete their second and fourth quarters at SCC.

COURSE OF STUDY

Students starting this program spring quarter should meet with the department chair to discuss the order in which classes will be taken.

Career Opportunities

Audio visual technician, broadcast engineer, cable TV maintenance, electronic research and development, fiberoptic technician, electronics technician, engineering aide, engineering specialist, F.A.A. and weather bureau, installation technician, instrument manufacturing technician, medical electronics, military electronics technician, consumer electronics technician, field service engineer, electronic systems salesperson, computer repair technician, computer field service technician, computer network technician, avionics technician, and satellite service technician.

**ELECTRONICS ENGINEERING TECHNICIAN
Maritime Specialist – Articulated with the United States Navy**

A.A.S. Degree, Certificate: SCC

Certificate	A.A.S. Degree																																																				
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">First Quarter</th> <th style="text-align: right;">Credits</th> </tr> </thead> <tbody> <tr> <td>ELECT 110 Computer Fundamentals for Electronics</td> <td style="text-align: right;">2</td> </tr> <tr> <td>ELECT 111 Fundamentals of DC/AC Circuits</td> <td style="text-align: right;">7</td> </tr> <tr> <td>ELECT 112 DC/AC Circuit Lab</td> <td style="text-align: right;">5</td> </tr> <tr> <td>ELECT 113 DC/AC Circuit Math</td> <td style="text-align: right;">5</td> </tr> <tr> <td></td> <td style="text-align: right; border-top: 1px solid black;">19</td> </tr> <tr> <td colspan="2">Second Quarter</td> </tr> <tr> <td>APLED 121 Applied Written Communication¹</td> <td style="text-align: right;">4</td> </tr> <tr> <td>ELECT 121 Advanced DC/AC Circuits</td> <td style="text-align: right;">9</td> </tr> <tr> <td>ELECT 122 Advanced DC/AC Circuits Lab</td> <td style="text-align: right;">5</td> </tr> <tr> <td>ELECT 123 Advanced DC/AC Circuit Math</td> <td style="text-align: right;">5</td> </tr> <tr> <td></td> <td style="text-align: right; border-top: 1px solid black;">23</td> </tr> <tr> <td colspan="2">Third Quarter</td> </tr> <tr> <td>ELECT 134 Printed Circuit Board/Surface Mount Technology Design and Repair</td> <td style="text-align: right;">1</td> </tr> <tr> <td>ELECT 136 Solid State Devices and Circuits</td> <td style="text-align: right;">5</td> </tr> <tr> <td>ELECT 137 Solid State Devices and Circuits/Lab</td> <td style="text-align: right;">4</td> </tr> <tr> <td>ELECT 138 Linear Devices and Circuits</td> <td style="text-align: right;">5</td> </tr> <tr> <td>ELECT 139 Linear Devices and Circuits/Lab</td> <td style="text-align: right;">4</td> </tr> <tr> <td></td> <td style="text-align: right; border-top: 1px solid black;">19</td> </tr> <tr> <td colspan="2">Fourth Quarter</td> </tr> <tr> <td>APLED 125 Employment Preparation¹</td> <td style="text-align: right;">3</td> </tr> <tr> <td>ELECT 211 Digital Concepts</td> <td style="text-align: right;">5</td> </tr> <tr> <td>ELECT 212 Digital Concepts Lab</td> <td style="text-align: right;">4</td> </tr> <tr> <td>ELECT 213 Basic Computer Systems</td> <td style="text-align: right;">5</td> </tr> <tr> <td>ELECT 214 Basic Computer Systems Lab</td> <td style="text-align: right;">4</td> </tr> <tr> <td></td> <td style="text-align: right; border-top: 1px solid black;">21</td> </tr> </tbody> </table> <p>82 credits are required for a certificate. Clock hours are 1188.</p> <p>¹ This related education requirement may be met by any course or combination of courses approved by the department chair or the technical education division dean.</p> <p>NOTE: The first quarter may be completed through High School Tech Prep classes. Student must complete second, third and fourth quarters at SCC.</p>	First Quarter	Credits	ELECT 110 Computer Fundamentals for Electronics	2	ELECT 111 Fundamentals of DC/AC Circuits	7	ELECT 112 DC/AC Circuit Lab	5	ELECT 113 DC/AC Circuit Math	5		19	Second Quarter		APLED 121 Applied Written Communication ¹	4	ELECT 121 Advanced DC/AC Circuits	9	ELECT 122 Advanced DC/AC Circuits Lab	5	ELECT 123 Advanced DC/AC Circuit Math	5		23	Third Quarter		ELECT 134 Printed Circuit Board/Surface Mount Technology Design and Repair	1	ELECT 136 Solid State Devices and Circuits	5	ELECT 137 Solid State Devices and Circuits/Lab	4	ELECT 138 Linear Devices and Circuits	5	ELECT 139 Linear Devices and Circuits/Lab	4		19	Fourth Quarter		APLED 125 Employment Preparation ¹	3	ELECT 211 Digital Concepts	5	ELECT 212 Digital Concepts Lab	4	ELECT 213 Basic Computer Systems	5	ELECT 214 Basic Computer Systems Lab	4		21	<p>Complete requirements for certificate in Electronics Engineering at Spokane Community College.</p> <p>Be on active duty in the US Navy.</p> <p>Complete the equivalent of 30 semester credits (45 quarter credits) in the Navy.</p> <ul style="list-style-type: none"> • Twenty-four semester credits will be advanced electronic courses. The applicant will hold a Navy C-School Certificate of Completion in one of the following: <ul style="list-style-type: none"> Advanced Electronics and Computer Field (AECF) <ul style="list-style-type: none"> Electronics Technician Radar Electronic Technician Communications Fire Controlman • Six semester credits will be electives from any Navy training courses or equivalent from an accredited higher education facility. • Navy credits must be verified by the SMART transcript, which is based on the American Council of Education (ACE guide). <p><i>Disclaimer: The college cannot guarantee courses will be offered in the quarters indicated. During the period this guide is in circulation, there may be curriculum revisions and program changes. Students are responsible for consulting the appropriate academic unit or adviser for more current and specific information. The information in this guide is subject to change and does not constitute an agreement between the college and the student.</i></p>
First Quarter	Credits																																																				
ELECT 110 Computer Fundamentals for Electronics	2																																																				
ELECT 111 Fundamentals of DC/AC Circuits	7																																																				
ELECT 112 DC/AC Circuit Lab	5																																																				
ELECT 113 DC/AC Circuit Math	5																																																				
	19																																																				
Second Quarter																																																					
APLED 121 Applied Written Communication ¹	4																																																				
ELECT 121 Advanced DC/AC Circuits	9																																																				
ELECT 122 Advanced DC/AC Circuits Lab	5																																																				
ELECT 123 Advanced DC/AC Circuit Math	5																																																				
	23																																																				
Third Quarter																																																					
ELECT 134 Printed Circuit Board/Surface Mount Technology Design and Repair	1																																																				
ELECT 136 Solid State Devices and Circuits	5																																																				
ELECT 137 Solid State Devices and Circuits/Lab	4																																																				
ELECT 138 Linear Devices and Circuits	5																																																				
ELECT 139 Linear Devices and Circuits/Lab	4																																																				
	19																																																				
Fourth Quarter																																																					
APLED 125 Employment Preparation ¹	3																																																				
ELECT 211 Digital Concepts	5																																																				
ELECT 212 Digital Concepts Lab	4																																																				
ELECT 213 Basic Computer Systems	5																																																				
ELECT 214 Basic Computer Systems Lab	4																																																				
	21																																																				