



2007-2008 Career Planning Guide

ELECTRONICS ENGINEERING TECHNICIAN

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 (estimate seven quarters)	\$	120
Insurance required.		

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 the student 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, computational skills and human relations skills.

Flexibility is provided to the student who chooses to receive 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 degree option is most advantageous in securing employment in the electronics industry. To qualify for this degree, the student 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 also must successfully complete specific related courses.

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.

PREREQUISITES: Appropriate ASSET scores in math, reading and writing (or alternative courses) must be met before admission into the program is granted. Written permission of the department chair or the technical division dean may supersede requirements.

NOTE: In July 2002, Spokane Community College signed a unique articulation agreement with the US Navy, becoming the first community college in the state of Washington to provide electronics training to Navy recruits. This option is for students who earn a certificate at SCC and complete the A.A.S. degree while on active duty with the United States Navy. Please see the "Electronics Engineering Technician: Maritime Specialist – Articulated with the United States Navy" Career Planning Guide for more information.

Career Opportunities

Audio visual technician, broadcast engineer, cable TV maintenance, electronic research and development, fiber optic 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.

Suggested Course of Study 2007-2008

Consult Adviser/Counselor for Program Planning and Selection of Electives

ELECTRONICS ENGINEERING TECHNICIAN

A.A.S. Degree, Certificate: SCC

A.A.S. Degree		A.A.S. Degree (continued)		Certificate	
	Credits		Credits		Credits
First Quarter		AVIONICS OPTION		First Quarter	
ELECT 110	Computer Fundamentals for Electronics	ELECT 245	Principles of Avionics	ELECT 110	Computer Fundamentals for Electronics
	2		5		2
ELECT 111	Fundamentals of DC/AC Circuits	ELECT 246	Principles of Avionics Lab	ELECT 111	Fundamentals of DC/AC Circuits
	7		4		7
ELECT 112	DC/AC Circuit Lab	ELECT 247	Avionics Systems	ELECT 112	DC/AC Circuit Lab
	5		5		5
ELECT 113	DC/AC Circuit Math	ELECT 248	Avionics Systems Lab	ELECT 113	DC/AC Circuit Math
	5		4		5
			18		19
	19			Second Quarter	
Second Quarter		BROADCAST AND RF COMMUNICATIONS TECHNICIAN OPTION		Second Quarter	
APLED 121	Applied Written Communication ¹	Seventh Quarter		APLED 121	Applied Written Communication ¹
	4	ELECT 278	RF Communications		4
ELECT 121	Advanced DC/AC Circuits	ELECT 279	RF Communications Lab	ELECT 121	Advanced DC/AC Circuits
	9		4		9
ELECT 122	Advanced DC/AC Circuits Lab	ELECT 294	Microwave, CATV, and Satellite Communications	ELECT 122	Advanced DC/AC Circuits Lab
	5		5		5
ELECT 123	Advanced DC/AC Circuit Math	ELECT 295	Microwave, CATV, and Satellite Communications Lab	ELECT 123	Advanced DC/AC Circuit Math
	5		4		5
	23		18		23
Third Quarter		Summer Quarter²		Third Quarter	
ELECT 134	Printed Circuit Board/Surface Mount Technology Design and Repair	ELECT 266	Cooperative Education Seminar <u>and</u>	ELECT 134	Printed Circuit Board/Surface Mount Technology Design and Repair
	1		1-2		1
ELECT 136	Solid State Devices and Circuits	ELECT 267	Cooperative Education Work Experience	ELECT 136	Solid State Devices and Circuits
	5		1-18		5
ELECT 137	Solid State Devices and Circuits/Lab		2-20	ELECT 137	Solid State Devices and Circuits/Lab
	4				4
ELECT 138	Linear Devices and Circuits	COMPUTER AND DATA COMMUNICATIONS TECHNICIAN OPTION		ELECT 138	Linear Devices and Circuits
	5	ELECT 255	Digital Data Communications		5
ELECT 139	Linear Devices and Circuits Lab	ELECT 256	Digital Data Communications Lab	ELECT 139	Linear Devices and Circuits Lab
	4		4		4
	19	ELECT 257	Wireless Communications		5
Fourth Quarter		ELECT 258	Wireless Communications Lab	Fourth Quarter	
APLED 125	Employment Preparation ¹		4	APLED 125	Employment Preparation ¹
	3		18		3
ELECT 211	Digital Concepts	ELECTRONICS MAINTENANCE TECHNICIAN OPTION		ELECT 211	Digital Concepts
	5	Sixth Quarter			5
ELECT 212	Digital Concepts Lab	The student selects 18 credits from electronics, electrical maintenance and automation, hydraulic and pneumatic automation technology or any related course that is approved by the department chair or the technical education division dean.		ELECT 212	Digital Concepts Lab
	4				4
ELECT 213	Basic Computer Systems	Seventh Quarter		ELECT 213	Basic Computer Systems
	5	The student selects 18 credits from electrical maintenance and automation program, hydraulic and pneumatic automation technology or any related course that is approved by the department chair or the technical education division dean.			5
ELECT 214	Basic Computer Systems Lab			ELECT 214	Basic Computer Systems Lab
	4				4
	21				21
Fifth Quarter		BIOMEDICAL EQUIPMENT TECHNICIAN OPTION		136 credits are required for an A.A.S. degree.	
ELECT 221	Communication Fundamentals	This option is a separate degree program that requires the applicant to take the first five quarters of the electronics engineering technician program. Please see the Career Planning Guide for this option.		82 credits are required for a certificate. Clock hours are 1188.	
	5				
ELECT 222	Communication Fundamentals Lab				
	4				
ELECT 223	Advanced Computer Systems				
	5				
ELECT 224	Advanced Computer Systems Lab				
	4				
	18				
Sixth Quarter					
ELECT 231	Advanced Communications				
	5				
ELECT 232	Advanced Communications Lab				
	4				
ELECT 233	Systems Troubleshooting				
	5				
ELECT 234	Systems Troubleshooting Lab				
	4				
	18				
Seventh Quarter					
Choose from the options below as available. Frequency of options offered is based on sufficient student interest and staff availability.					

¹This related education requirement may be met by any course or combination of courses approved by the department chair or the technical education division dean.

²To earn a certificate from the Society of Broadcast Engineers, students must take these courses during summer quarter prior to or immediately following the seventh quarter.

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.