

Electronics Technology Certificate – 630E

Requirements Effective Fall 2015

Program Planning Guide

Program Description: This program provides opportunities for students interested in the operation, maintenance and repair of a wide array of electronics-based equipment. The Electronics Technology Certificate program provides a broad foundation in electronics training. Instruction emphasizes a hands-on approach, use of sophisticated test equipment, and a solid base of information concerning computer hardware and software for technical applications.

This program offers job training directed toward immediate employment and future advancement with companies specializing in manufacturing or servicing all types of electronic equipment. Our graduates are preferred by industry employers and perform better in advanced training.

Prerequisites: Many classes have prerequisites. Prerequisites are those classes that prove eligibility for entry-level classes by testing or by having satisfied prior course work. Course work earned at other institutions must be unofficially evaluated or approved by a program advisor before registering. Courses in this certificate with pre-requisites are marked with an asterisk (*). See catalog for more information.

Electronics Technology Certificate Prerequisites: Placement into ENGL 097/098 or higher, placement into MATH 084 or higher or successful completion of equivalent class (or higher) and BUS 169 or equivalent computer experience.

Note: Advanced placement testing, work experience, and transfer of credits may result in course waivers, credit transfer, and advanced placement.

Program Requirements		
Course Number	General Education/Related Instruction Requirements (13-15 credits)	Credit Hours
Human Relations	Choose one of the following: BUS 236 preferred, HUM 105, ISP 101, ISP 110, POLS 112, SOC&101	5
ENGL&101* or ENGL&230* or ENGL&235*	Composition or Technical Writing	3-5
EET 109* or MATH&141*	Mathematical Applications for Circuit Analysis or Pre-Calculus I (or any higher math course)	5
Course Number	Certificate Requirements (53 credits)	
EET 105	Introduction to Technology	2
EET 106	Introduction to Soldering	1
EET 107	Introduction to Avionics	4-5
EET 108	Introduction to Fiber Optics	5
EET 131	IT Essentials – A+ Certification	5
EET 132* or EET 135	IT Essentials – A+ Certification Advanced or Introduction to Broadband	5
EET 137*	Introduction to Robotics	5
EET 161	D.C. Principles of Electronics	5
EET 162*	A.C. Principles of Electronics	5
EET 163*	Solid State Electronics	5
EET 165*	Analog Circuits and Devices	5
EET 170*	Digital Electronics & PLCs I	5
		Total Credits: 65-68 (excluding pre-requisites)

Program Outcomes

- Identify and apply technical concepts and terms used in electronics.
- Install, analyze and troubleshoot electronic systems.
- Use and configure computer hardware, operating systems and basic networks.
- Use electronic circuit simulation software for circuit design and analysis.
- Locate, evaluate, and apply relevant information from various sources to address workplace problems.

What Skills do I need to be successful in this field?

- <http://www.onetonline.org/link/summary/49-2094.00>

What are some potential job titles?

- Electronics Technician
- Repair Technician
- Electrical and Instrument Mechanic

Wages, employment trends and pathways

- <http://www.onetonline.org/link/summary/49-2094.00#WagesEmployment>

Course Sequence: This program of study is outlined by quarter, and courses should be taken in the indicated sequence. However, it should not be concluded that students will always proceed through their program of study exactly as prescribed here. The number of quarters listed here is minimal. Not all courses are offered every quarter. Individual student experiences, educational and training background, and personal schedules and demands all may affect the time it takes to finish this program. Also, in general, summer quarter is not considered one of the full-time quarters in the program.

1st quarter: EET 105, EET 161, EET 109 or MATH&141 or higher

2nd quarter: EET 131, EET 162, ENGL&101 or ENGL&230 or ENGL&235

3rd quarter: EET 132 or EET 135, EET 163, EET 170, EET 107

4th quarter: Human Relations, EET 137, EET 108, EET 165, EET106

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NSC Advising Office: (206) 934-3658 <https://northseattle.edu/advising>

Program Website: <https://northseattle.edu/certificates/electronics-technology-certificate>