

Electronics Technology Certificate – ECTEEC45, 630E
Requirements Effective Spring 2024
Program Planning Guide

Program Description: The Electronics Technology certificate program provides opportunities for students interested in the operation, maintenance, and repair of a wide array of electronics-based equipment with 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 prerequisites 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 (15 credits)	Credit Hours
EET 109* or MATH& 142*	Mathematical Applications for Circuit Analysis (preferred) or Pre-Calculus 2	5
ENGL& 101* or ENGL& 235*	Composition or Technical Writing	5
Human Relations Elective	BUS 236 Interpersonal Communication in the Workplace (preferred) or any approved Human Relations course	5
Course Number	Certificate Requirements (38 credits)	
EET 105	Introduction to Technology	2
EET 106*	Introduction to Soldering	1
EET 107* or EET 108 or EET 132* or EET 137* or EET 138	Choose one of the following: EET 107 Introduction to Aviation Electronics EET 108 Introduction to Fiber Optics EET 132 IT Essentials – A+ Certification Advanced EET 137 Introduction to Robotics EET 138 Industrial Robotics	5
EET 131	IT Essentials – A+ Certification	5
EET 161*	D.C. Principles of Electronics	5
EET 162*	A.C. Principles of Electronics	5
EET 163*	Solid State Electronics	5
EET 170*	Digital Electronics & PLCs I	5
EET/EEL 203	Programmable Logic Controllers	5
		Total Credits: 53 (excluding prerequisites)

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. Summer quarter is included in the sequence below for this program.

1st quarter: EET 105, EET 109 or MATH& 142, EET 161	12 credits
2nd quarter: EET 162, EET 170, EET/EEL 203	15 credits
3rd quarter: EET 107 or EET 108 or EET 132 or EET 137 or EET 138, EET 163, ENGL&101	15 credits
4th quarter: BUS 236 (or approved Human Relations elective), EET 106, EET 131	11 credits

Program Contact: Julie Lyderson-Jackson 206-934-4609 julie.lyderson@seattlecolleges.edu

EET Coordinator: Charles Eckard 206-934-4588 charles.eckard@seattlecolleges.edu

Electronics Department Website: <https://northseattle.edu/electronics>

Program Website: <https://northseattle.edu/programs/electronics-technology-and-electronics-engineering>

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