

## Electronics Technology AAS – 630A

Requirements Effective Fall 2016

### Program Planning Sheet

**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 AAS degree 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 degree with pre-requisites are marked with an asterisk (\*). See catalog for more information.

**Electronics Technology AAS Prerequisites:** Placement into ENG 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.

<b>Program Requirements</b>		
<b>Course Number</b>	<b>General Education/Related Instruction Requirements (28-30 credits)</b>	<b>Credit Hours</b>
BUS 112 or US Culture or Global Studies	Multicultural Communications in the American Workplace or Approved US Culture course or Approved Global Studies course	5
Human Relations	Choose one of the following: BUS 236 preferred, HUM 105, ISP 101, ISP 110, POLS 112, SOC& 101	5
ENGL&101*	Composition	5
EET 109* or MATH&141*	Mathematical Applications for Circuit Analysis or Pre-Calculus or higher	5
Technical Elective	Any non-required EEL, EET, HVC, TDR, CSC, CHEM, ENGR, NANO, MATH 116* or higher, BUS 210*, BUS 229* or IT 111 or higher	8-10
<b>Course Number</b>	<b>Degree Requirements (81 credits)</b>	
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 112	Fluid Power & Alternative Energy	5
EET 114	Applied Physics	5
EET 132*	IT Essentials – A+ Certification Advanced	5
EET 135	Introduction to Broadband	5
EET 137*	Introduction to Robotics	5
EET 138*	Robotic Applications	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
EET 171*	Digital Electronics & PLCs II	5
EET 219	Metrology and Measurement Science	3
		Total Credits: 108-111 (excluding pre-requisites)

## Program Outcomes

- Identify and apply technical concepts and terms used in the field.
- Analyze and troubleshoot electronic systems.
- Use and configure computer hardware, operating systems and basic networks.
- Use word processing and electronic circuit simulation software
- Repair, maintain and install electronic and electrical systems.

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/17-3023.01>

### What are some potential job titles?

- Electronics Technician
- Electronics Engineering Technician
- Engineering Aide
- Failure Analysis Technician

### Wages, employment trends and pathways

- <http://www.onetonline.org/link/summary/17-3023.01#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. Although summer quarter is not considered one of the full-time quarters in the program it would be a good time to take any of the courses listed below at, "Any quarter."

**1<sup>st</sup> quarter:** EET 105, EET 161, EET 109 or MATH&141 or higher

**2<sup>nd</sup> quarter:** EET 131, EET 162, ENGL&101

**3<sup>rd</sup> quarter:** EET 112, EET 132, EET 170, EET 163

**4<sup>th</sup> quarter:** EET 135, EET 171, EET 107, EET 165, EET106

**5<sup>th</sup> quarter:** EET 114, EET 137, EET 219,

**6<sup>th</sup> quarter:** EET 138, Technical Electives, EET 108

**Any quarter:** BUS 112 or US Cultures or Global Studies, Human Relations

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**NSCC Advising Office** 206-934-3658 <https://northseattle.edu/advising>

**Program Website:** <https://northseattle.edu/career/degrees/electronics-technology-aas>