

## Aviation Electronics II: Electronics Technician Certificate – 630J

Requirements Effective Fall 2017

### Program Planning Guide

**Program Description:** This certificate is designed to provide students with the basic knowledge, skills and abilities (KSA's) to meet minimum requirements for employment as an entry level electronics technician in aerospace-related technologies.

**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.

**Aviation Electronics II 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.

<b>Program Requirements</b>		
<b>Course Number</b>	<b>General Education/Related Requirements (8-10 credits)</b>	<b>Credit Hours</b>
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
<b>Course Number</b>	<b>Certificate Requirements (53 credits)</b>	<b>Credit Hours</b>
EET 105	Introduction to Technology	2
EET106	Introduction to Soldering	1
EET 107	Aviation Electronics	5
EET 108	Fiber Optics	5
EET 109* or MATH& 141	Mathematical Applications for Circuit Analysis Precalculus 1	5
EET 112	Fluid Power & Alternative Energy Sources	5
EET 131	IT Essentials – A+ Certification	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 170*	Digital Circuits I	5
<b>Total Credits: 61-63</b> (excluding pre-requisites)		

#### Program Outcomes:

- Identify and apply technical concepts and terms used in the avionics field.
- Perform basic wiring and termination common to avionics.
- 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.bls.gov/oes/current/oes492091.htm>

**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.

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

**2<sup>nd</sup> quarter:** EET 131, EET 162, ENGL&101 or ENGL&230 or ENGL&235

**3<sup>rd</sup> quarter:** EET 163, EET 170, EET 137, BUS 236

**4<sup>th</sup> quarter:** EET 112, EET 107, EET 108, EET 106

**Program Coordinator:** Tim Fiegenbaum (206) 934-0181 [Tim.Fiegenbaum@seattlecolleges.edu](mailto:Tim.Fiegenbaum@seattlecolleges.edu)

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

**Program Website:** <https://northseattle.edu/certificates/aviation-electronics-ii-electronics-technician-certificate>