

**Program Description:** This certificate is designed to provide students with the basic knowledge, skills and abilities to meet minimum requirements for employment as an entry level wire assembly 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 I Prerequisites:** Placement into ENGL 097/098 or higher, Placement into MATH 084 or higher or successful completion of equivalent class (or higher), 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	Certificate Requirements (30 credits)	Credit Hours
EET 107	Aviation Electronics	4-5
EET 108	Introduction to Fiber Optics	5
EET 109 * or MATH&141	Mathematical Applications for Circuit Analysis Precalculus I	5
EET 137*	Introduction to Robotics	5
EET 161	D.C. Principles of Electronics	5
EET 162	A.C. Principles of Electronics	5
		Total Credits: 29-30 (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/51-2022.00>

**What are some potential job titles?**

- Wire Assembler
- Factory Assembler
- Avionics Factory Worker

**Wages, employment trends and pathways**

- <http://www.onetonline.org/link/summary/51-2022.00#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.

**1<sup>st</sup> quarter:** EET 109 or **MATH&141**, EET 161, EET 137

**2<sup>nd</sup> quarter:** EET 107, EET 162, EET 108

**Program Contact:** Douglas Jenkins (206) 934-4503, [Douglas.Jenkins@seattlecolleges.edu](mailto:Douglas.Jenkins@seattlecolleges.edu)

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

**NSCC Advising Office:** 206-934-3658

**Program Website:** <https://northseattle.edu/certificates/avionics-1>