

Program Planning Sheet

**Program Description:** The IT Controlled Electronic Systems Associate of Applied Science degree is a 2-year degree focused on developing skills needed to install, maintain, and monitor information technology systems and IT-controlled electronic systems such as security, entertainment, and HVAC systems. Course work in electronics and computer networking is emphasized along with building the interpersonal skills necessary to work with customers and co-workers.

**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.

**IT Controlled Electronics AAS Prerequisites:** Placement into ENGL&101, Placement into MATH 084 or MATH 097, BUS 169 or IT 101

**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 (20 credits)</b>	<b>Credit Hours</b>
BUS 236	Interpersonal Communication for the Workplace	5
ENGL&101*	Composition	5
EET 109*	Mathematical Applications for Circuit Analysis	5
Elective	Five credits must be selected from a list of approved US Cultures or Global Studies	5
<b>Course Number</b>	<b>Degree Requirements (70 credits)</b>	
EET 131	IT Essentials – A+ Certification	5
EET 132*	IT Essentials – A+ Certification Advanced	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 I	5
IT 122 *	Network Operating Systems 1	5
<b>IT 124 *</b>	<b>Network Operating Systems 2</b>	<b>5</b>
IT 135	UNIX Operating System	5
IT 138*	UNIX for Network Administration	5
IT 142*	Network Management – CISCO I	5
IT 144*	Network Management – CISCO II	5
IT 146*	Network Management – CISCO III	5
		<b>Total Credits: 90</b> (excluding pre-requisites)

## Program Outcomes:

- Understand technical concepts and terms used in the electronics and IT fields.
- Troubleshoot electronic systems, hardware, and network problems.
- Install, configure and test networking devices, servers, workstations, electronic and electrical systems.
- Interact and communicate effectively with users and coworkers to identify network problems and needs for upgrades.
- Integrate IT and electronic systems.
- Locate, evaluate and apply relevant information from various sources.

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

- <http://www.onetonline.org/link/summary/49-2098.00>

## What are some potential job titles?

- Security Systems Technician/Installer
- Fire Alarm Technician
- Electronic Systems Technician

## Wages, employment trends and pathways

- <http://www.onetonline.org/link/summary/49-2098.00#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:** BUS 236, EET 131, EET 109

**2<sup>nd</sup> quarter:** EET 132, ENGL&101, IT 122

**3<sup>rd</sup> quarter:** EET 137, EET 161, IT 126

**4<sup>th</sup> quarter:** EET 162, IT 142, US Culture or Global Studies elective

**5<sup>th</sup> quarter:** EET 163, IT 135, IT 144

**6<sup>th</sup> quarter:** EET 165, IT 138, IT 146

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

**Program Website:** <https://northseattle.edu/career/degrees/it-controlled-electronic-systems-aas>