

IT Controlled Electronics AAS – 527H
Requirements Effective Spring 2012
Program Planning Guide

Program Description: The IT Controlled 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 of completion of ABE 050 with minimum 2.0, Placement into MATH 084 or MATH 097, BUS 169.

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 (20 credits)	Credit Hours
BUS 236	Interpersonal Communications for the Workplace	5
ENGL&101*	Composition (see Note 1)	5
EET 109*	Mathematical Applications for Circuit Analysis (see Note 2)	5
Elective	Five credits must be selected from a list of approved US Cultures or Global Studies	5
Course Number	Degree Requirements (70 credits)	
EET 131	IT Essentials I - A+ Certification	5
EET 132*	IT Essentials II – A+ Certification Advanced (see Note 3)	5
EET 137	Introduction to Robotics	5
EET161	D.C. Principles of Electronics (see Note 4)	5
EET162*	A.C. Principles of Electronics (see Note 5)	5
EET163*	Solid State Electronics (see Note 6)	5
EET165*	Analog Circuits and Devices I (see Note 7)	5
IT 122*	Network Operating Systems 1 (see Note 8)	5
IT 124*	Network Operating Systems 2 (see Note 9)	5
IT 135	Introduction to UNIX	5
IT 138*	UNIX for Network Administration (see Note 10)	5
IT 142*	Network Management – CISCO I (see Note 11)	5
IT 144*	Network Management – CISCO II (see Note 12)	5
IT 146*	Network Management – CISCO III (see Note 13)	5
Total Credits: (excluding pre-requisites)		90

Notes:

1. Must have placement in ENGL&101 on the Compass test or recommendation of your NSC ENGL097/098 or ENGL099 instructor or completed ABE 050 with minimum 2.0.
2. Must have MATH 081 or equivalent.
3. Must have EET 131 or permission.
4. Completion of high school or Elementary Algebra highly recommended.
5. Must have EET 161 and EET 109 or MATH& 141 or instructor permission to take EET 109 or Math& 141 concurrently during the same quarter.
6. Must have EET 161
7. Must have EET 163.
8. Must have EET 131, IT 120, IT 142 or instructor permission.

REV Date: 11/15/2016

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9. Must have IT 122 or permission.
10. Must have IT 135 or permission.
11. Must have EET131, IT122 (may be taken concurrently) or instructor permission.
12. Must have IT 142 or instructor permission.
13. Must have IT 142, IT 144, or instructor permission.

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.

1st quarter: BUS 236, EET 131, EET 109

2nd quarter: EET 132, ENGL&101, IT 122

3rd quarter: EET 137, EET 161, IT 124

4th quarter: EET 162, IT 142, US Culture or Global Studies elective

5th quarter: EET 163, IT 135, IT 144

6th quarter: EET 165, IT 138, IT 146

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> (Security and Fire Alarm Systems Installers)
- <https://www.onetonline.org/link/summary/15-1143.01> (Telecommunication Engineering Specialists)
- <https://www.onetonline.org/link/summary/17-3023.01> (Electronics Engineering Technicians)
- <https://www.onetonline.org/link/summary/17-3023.03> (Electrical Engineering Technicians)
- <https://www.onetonline.org/link/summary/17-3024.00> (Electro-Mechanical Technicians)

What are some potential job titles?

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

Wages, employment trends and pathways

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- <http://www.onetonline.org/link/summary/49-2098.00#WagesEmployment> (Security and Fire Alarm Systems Installers)
- <https://www.onetonline.org/link/summary/15-1143.01#WagesEmployment> (Telecommunication Engineering Specialists)
- <https://www.onetonline.org/link/summary/17-3023.01#WagesEmployment> (Electronics Engineering Technicians)
- <https://www.onetonline.org/link/summary/17-3023.03#WagesEmployment> (Electrical Engineering Technicians)
- <https://www.onetonline.org/link/summary/17-3024.00#WagesEmployment> (Electro-Mechanical Technicians)

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

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

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CIP: 11.0901 (Computer Systems Networking and Telecommunications)

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