NORTH SEATTLE COLLEGE One of the Seattle Colleges

NORTH SEATTLE IT Controlled Electronics AAS – 630K

Requirements Effective Fall 2023

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 coworkers.

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.

Program Requirements				
Course Number	General Education/Related Instruction Requirements (20 credits)	Credit Hours		
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		
Course Number	Degree Requirements (70 credits)			
	Required Courses (60 credits)			
EET 108	Introduction to Fiber Optics	5		
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 111	Programming Fundatmentals	5		
IT 120 *	Comptia Network+	5		
IT 135	UNIX Operating System	5		
IT 150*	Comptia Security+	5		

	Elective Courses (10 credits – pick two)		
BUS 118	Project Management Introduction and Overview		5
BUS 169	Using Computers in Business		5
CWE	Internship		5
EET 160	Introduction to Electricity and Electronics		5
IT 100	IT Fundamentals		5
IT 122*	Network Operating System 1		5
IT 138*	Linux for Network Administration		5
IT 157*	Ethical Hacking		5
Total Credits: 90			
(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.

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

2nd quarter: EET 132, ENGL&101, EET 108

3rd **quarter**: EET 137, EET 161, IT 120

4th quarter: EET 162, IT 135, US Culture or Global Studies elective

5th quarter: EET 163, IT 111, elective

6th **quarter**: EET 165, IT 150, IT elective

Program Contact: Robert Bunge, 206-934-4530 Robert.Bunge@seattlecolleges.edu

Tim Fiegenbaum, 206-934-0181 Tim.Fiegenbaum@seattlecolleges.edu

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

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