

Network & Server Administration AAS – 527J

Requirements Effective Spring 2012

Program Planning Guide

Program Description: This 2-year Associate of Applied Science degree program is focused on UNIX/Linux, Microsoft, and Cisco operating system configuration, management, and security. The curriculum includes information security concepts and best-practices, and industry certification (CompTIA, Microsoft, Cisco, etc.) preparation.

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.

Network & Server Administration AAS Prerequisites: Placement into ENGL&101 or completion of ABE 050 with minimum 2.0, Placement into MATH 084 (or higher)

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 |
| EET 109* | Mathematical Applications for Circuit Analysis (see Note 1) | 5 |
| BUS 236 | Interpersonal Communications for the Workplace | 5 |
| ENGL&101* | Composition (see Note 2) | 5 |
| | 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 |
| BUS 169 | Using Computers in Business | 5 |
| IT 102 | Introduction to Programming | 5 |
| IT 122* | Network Operating Systems 1 (see Note 4) | 5 |
| IT 124* | Network Operating Systems 2 (see Note 5) | 5 |
| IT 126* | Network Operating Systems 3 (see Note 6) | 5 |
| IT 135 | Introduction to UNIX | 5 |
| IT 138* | UNIX for Network Administration (see Note 7) | 5 |
| IT 142* | Network Management – CISCO I (see Note 8) | 5 |
| IT 144* | Network Management – CISCO II (see Note 9) | 5 |
| IT 146* | Network Management – CISCO III (see Note 10) | 5 |
| IT 220* | Desktop Management & Virtualization (see Note 11) | 5 |
| Technical Electives | Five credits must be selected from a list of approved technical electives | 5 |
| Total Credits: (excluding pre-requisites) | | 90 |

| Technical Electives | | |
|----------------------------|--|---|
| BUS 118* | Project Management Introduction and Overview (see Note 12) | 5 |
| CWE 110 | Internship | 3 |
| EET108* | Intro to Fiber Optics (see Note 13) | 4 |
| EET 135* | Introduction to Broadband (see Note 14) | 5 |
| EET 160 | Introduction to Electricity and Electronics | 5 |
| EET 161 | D.C. Principles of Electronics (see Note 15) | 5 |
| IT 111 | Internet and Web Authoring | 5 |
| IT 128* | Network Operating System 4 (see Note 16) | 5 |
| IT 140* | UNIX Shell Scripts Perl (see Note 17) | 5 |
| IT 150* | Network Security Fundamentals (see Note 18) | 5 |
| IT 298 | Special Projects for LAN | 5 |

REV Date: 11/15/2016

For more information about our graduation rates, the median debt of students who have completed these program, and other important information, please visit our website at <https://northseattle.edu/about-north/qainful-employment-information>

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Notes:

1. Must have MATH 081 or equivalent.
2. Must have Placement in ENGL&101 on the Compass test or recommendation of your NSC ENGL097/098 or ENGL099 instructor or complete ABE 050 with minimum of 2.0.
3. Must have EET 131 or permission.
4. Must have EET 131, IT 120, IT 142 or instructor permission.
5. Must have IT 122 or permission.
6. Must have IT 122 or instructor permission.
7. Must have IT 135 or permission.
8. Must have EET131, IT122 (may be taken concurrently) or instructor permission.
9. Must have IT 142 or instructor permission.
10. Must have IT 142, IT 144, or instructor permission.
11. Must have IT 128 – Network OS 4 Windows Active Directory or instructor permission.
12. Must have BUS 169; BUS 236.
13. Must have MATH 081 or placement into MATH 084 or instructor permission.
14. Must have EET131, EET160 or EET161 or instructor permission.
15. Completion of high school or Elementary Algebra strongly recommended.
16. Must have IT126 or instructor permission.
17. Must have IT 138 or instructor permission.
18. Must have IT128 and IT149 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: EET 109, EET 131, BUS 269

2nd quarter: EET 132, IT 102, IT 122

3rd quarter: IT 124, IT 135, IT 142

4th quarter: IT 126, IT 138, IT 144

5th quarter: BUS 236, ENGL&101, IT 146

6th quarter: IT 220, Technical Elective, US Culture or Global Studies elective

Program Outcomes:

- Install & configure software and upgrades
- Install, configure & test network devices, servers and workstations
- Troubleshoot hardware & network problems

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

- <http://www.onetonline.org/link/summary/15-1152.00> (Computer Network Support Specialists)
- <http://www.onetonline.org/link/summary/15-1142.00> (Network and Computer Systems Administrators)

What are some potential job titles?

- Network Manager
- Information Technology (IT) Specialist
- Systems Administrator

Wages, employment trends and pathways

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Network & Server Administration AAS – 527J

<http://www.onetonline.org/link/summary/15-1142.00#WagesEmployment>

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

Program Website: <https://northseattle.edu/career/degrees/network-server-administration-aas-degree>

Program Contact: Robert Bunge (206) 934-4530 Robert.bunge@seattlecolleges.edu

CIP: 11.0901 (Computer Systems Networking and Telecommunications)

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