

Linux Networking & Security Certificate - SYAILC20

Requirements Effective Winter 2018

Program Planning Guide

Program Description: This program prepares students for careers in system administration, network administration, and information security. Students will gain experience managing and securing the Linux operation system. Students will also learn how Linux-based tools apply to network administration and security testing.

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.

Program Name Prerequisites: EET 131, or instructor permission.

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 (20 credits)	Credit Hours
IT 135	Linux Operating System	5
IT 138*	Linux for Network Administration	5
IT 150*	IT Systems Security+	5
IT 157*	Ethical Hacking	5
		Total Credits: 20 <i>(excluding pre-requisites)</i>

Program Outcomes:

- Installing, configuring, and testing network servers and workstations.
- Installing and configuring software and upgrades.
- Incorporate industry best practices for designing and implementing security policies for users.

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

- <http://www.onetonline.org/link/summary/15-1152.00>
- <http://www.onetonline.org/link/summary/15-1142.00>
- <https://www.onetonline.org/link/summary/15-1122.00>

What are some potential job titles?

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

Wages, employment trends and pathways

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

Suggested 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: IT 135, IT 150

2nd quarter: IT 138, IT 157

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Website: <https://northseattle.edu/programs/information-technology/linux-network-and-security-certificate>