

NETWORK SECURITY

Andrea Faber, PhD, **Dean**
 Phone: (419) 995-8422
 Email: faber.a@RhodesState.edu
 Office: 260K Science Building

The **Network Security Major** stresses the design, installation, security, and maintenance of a computer network. This major also provides the coursework that will train the students to design, build, and implement complete end-to-end security solutions. The coursework will also provide exposure to various digital, computer, and network forensic methods, VPNs, secure remote access, and disaster recovery techniques. Course content covers objectives for various certifications including:

- **A+**
- **Cisco Certified Network Associate**
- **Cisco Certified CyberOps Associate**
- **Microsoft Certified Solutions Associate**
- **Linux+**
- **LPIC-1**
- **Red Hat Certified System Administrator**
- **VMware Certified Professional**
- **Security +**
- **Palo Alto ACE**

Rhodes State College is an official Microsoft Imagine Academy, which means that Rhodes State College is an authorized training partner with Microsoft and we use **official Microsoft curriculum in our Microsoft courses**.

In order to become a **Microsoft Certified Solutions Associate (MCSA)**, students should take CPT 1410 Microsoft I, CPT 1415 Microsoft II and CPT 1420 Microsoft III and pass the associated Microsoft exams. All of these courses use official Microsoft curriculum.

Rhodes State College is an authorized Local Cisco Network Academy which means that Rhodes State College is an authorized training partner with Cisco and we use **official Cisco curriculum in our Cisco courses**.

In order to become a **CCNA (Cisco Certified Network Associate)**, the student should take CPT 1705 Cisco I - CCNA, CPT 1715 Cisco II - CCNA, and CPT 2705 Cisco III - CCNA and pass the CCNA exam.

In order to become a **CCNP (Cisco Certified Network Professional)**, the student should take CPT 2740 Cisco V - CCNP and CPT 2741 Cisco VI - CCNP and pass the associated CCNP exams.

Rhodes State College is an authorized VMware IT Academy, which means that Rhodes State College is an authorized training partner with VMware and we use **official VMware curriculum in our virtualization courses**.

Technical Standards



See here for details.

Tech Prep Partner


See here for details.

Network Security Major Associate of Applied Science Degree Structured Course Sequence (4 Semester Plan)

First Year

First Semester		Hours
COM 1110 	English Composition	3
CPT 1410	Microsoft I	3
CPT 1415	Microsoft II	3
CPT 1605	IT Essentials	3
CPT 1620	Linux Administration I	3
SDE 1010 	First Year Experience	1
Term Hours		16

Second Semester




COM 1140	Technical Writing	3
CPT 1420	Microsoft III	3
CPT 1625	Linux Administration II	3
CPT 1705 	Cisco I - CCNA	3
CPT 1715	Cisco II - CCNA	3
MTH 1151 or MTH 1260	Quantitative Reasoning or Statistics	3
Term Hours		18

Second Year

First Semester

CPT 2705	Cisco III - CCNA	3
CPT 2715	Cisco IV - CCNA	3
CPT 2930	Ethical Hacking I	3
CPT 2935	Ethical Hacking II	3
CPT 2991	Field Experience	1
HST 1620	American History Since 1877	3
Term Hours		16

Second Semester

CPT 2940	Virtualization I	3
CPT 2560	Server and Infrastructure Integration	3
CPT 2960	CCNA Security	3
CPT 2965 	Applications of Network Security	3
		
PSY 1010  or SOC 1010	General Psychology or Sociology	3
Term Hours		15
Total Hours		65

See here for Portfolio and Capstone information.


Prerequisites:

Students should check course prerequisites before registering.

 Portfolio

 Capstone

Cyber Security Certificate

Code	Title	Hours
CPT 1705 	Cisco I - CCNA	3
CPT 2540	Computer and Network Security	3
CPT 2545	Scripting for Cybersecurity Professionals	3
CPT 2550	Cryptography and Encryption	3
CPT 2555	Network Forensics	3
CPT 1940	Introduction to Cybersecurity	3
CPT 1945	Introduction to the Internet of Things	3
CPT 1950	Security Awareness	3
CPT 1955	Firewall Essentials	3
CPT 1715	Cisco II - CCNA	3
Total Hours		30

 Portfolio