



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Securing Network Switches and Routers
Course Number: NET253

Required Materials

Textbook(s): Cisco CyberOps Associate, ISBN# 978-0136807834
Required Readings: None
Additional Materials: None

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

Week	Chapter/Topic/Lab
Week 1	<ul style="list-style-type: none"> • Quiz-1 (LMS) • Packet Tracer Lab 2.6.1.3 Configure Syslog, NTP and SSH (LMS) • Class Activity, Top Hacker Shows Us How It Is Done (LMS)
Week 2	<ul style="list-style-type: none"> • Quiz, Chapter-2 (LMS) • Quiz – Basic Router/Switch Settings (LMS)
Week 3	<ul style="list-style-type: none"> • Packet Tracer Lab 3.6.1.2 Configure AAA Authentication (LMS) • Class Activity, Identify Processes (LMS)
Week 4	<ul style="list-style-type: none"> • Quiz, Chapter-4 (LMS) • Class Activity, Gathering Information (LMS)
Week 5	<ul style="list-style-type: none"> • Lab – Creating Codes (LMS) • Lab – Generating Certificates using Open SSL (LMS)
Week 6	<ul style="list-style-type: none"> • Packet Tracer Lab 8.4.1.2 Configure Site-to-Site VPN (LMS) • Packet Tracer Lab 6.3.1.2 Layer-2 Security (LMS)
Week 7	<ul style="list-style-type: none"> • Packet Tracer Lab 10.2.6 Use LLD to Map a Network (LMS) • Packet Tracer Lab 10.8.1 Configure CDP, LLDP and NTP (LMS)
Week 8	<ul style="list-style-type: none"> • Exam-1, Chapters 1 thru 7 (Hands-On Packet Tracer Exam LMS)
Week 9	<ul style="list-style-type: none"> • Quiz, Chapter-8 (LMS) • Lab, Incident Response (LMS)
Week 10	<ul style="list-style-type: none"> • Quiz, Chapter-9 (LMS) • Lab, Security Onion (LMS)
Week 11	<ul style="list-style-type: none"> • Packet Tracer Lab 9.3.1.1 Configuring ASA Basic Settings (LMS)

Week	Chapter/Topic/Lab
	<ul style="list-style-type: none"> • Packet Tracer Lab 25.3.10 Explore a NetFlow Implementation (LMS) • Packet Tracer Lab 25.3.11 Logging from Multiple Sources (LMS)
Week 12	<ul style="list-style-type: none"> • Threat Mitigation on Cisco Devices (LMS)
Week 13	<ul style="list-style-type: none"> • Packet Tracer Lab 5.4.1.2 Configure IOS Intrusion Prevention (LMS)
Week 14	<ul style="list-style-type: none"> • Quiz, Chapter-13 (LMS) • Packet Tracer Lab 4.1.2.5 Configure IP ACLs to Mitigate Attacks (LMS)
Week 15	<ul style="list-style-type: none"> • Lab – Social Engineering (LMS) • Lab – What is Going On (LMS)
Week 16	<ul style="list-style-type: none"> • Final Exam Comprehensive, Hands-On Packet Tracer Lab