

Intro to Networking

CSIS - 1200 401

Course Description

This course covers how common network protocols are used within a network. Students will learn how to use Wireshark to capture and analyze network traffic such as: ARP, IP, TCP, UDP, ICMP, DNS, DHCP, HTTP, RIP and EIGRP. Subnetting, VLSM, and CIDR are also covered.

Recommended Prerequisite: CSIS 1030

Semester: All

Course Student Learning Outcomes

- Develop system administration skills.
- Build local area networks (LANs).
- Configure and Implement basic settings on routers and switches.

Course Prerequisites

None

Transfer/Certification/Licensure/Employment Information

This course provides for CompTIA Network+ Certification

Engagement Plan

- I will respond to email within 24hrs. I will offer feedback on major assignments within a week after due date. The best way to contact me is via the Canvas Inbox, as I will prioritize this email over other modes of communication.
- In this course I will be posting interactive announcements which will offer specific opportunities for class questions and extra credit every other week.
- Additionally, I will be participating in the discussion forums with you to share my perspective within the discipline and to offer some nuances of interpretation that may not be present in your online curriculum.
- Lastly, we'll be holding small group Q & A sessions, where we can learn from our peers (and faculty) on some of the more difficult units within the course.

Keys for Success (how to succeed in the course)

Complete online curriculum assessments by the due dates.

Course Content Advisory

Grades are based on online knowledge assessments and final exam across the TestOut curriculum.

Required Text or Materials

Title: CertMaster Learn Network + 9.0

Publisher: CompTia

For more information on textbook accessibility, contact Accessibility & Disability Services at ads@slcc.edu.

Brief Description of Assignments/Exams

Complete each module within the online curriculum and final exam.

Assignment Schedule

Due Date	Assignment Name	Assignment Type	Points
	Introduce Yourself	Discussion	0
8/27/25	Syllabus Quiz	Quiz	0
9/2/25	1.1.7 - Lab: Create Network Topologies	Assignment	1
9/2/25	1.1.8 - Lesson Review	Assignment	11
9/2/25	1.2.9 - Lesson Review	Assignment	15
9/2/25	1.3.10 - Lab: Create a SOHO Network	Assignment	1
9/2/25	1.3.11 - Lesson Review	Assignment	10
9/2/25	1.3.8 - Lab: Explore a Single Location in a Lab	Assignment	6
9/2/25	1.3.9 - Lab: Create a Home Wireless Network	Assignment	6
9/2/25	1.4.10 - Lab: Troubleshooting Methodology	Assignment	1
9/2/25	1.4.11 - Lesson Review	Assignment	15
9/2/25	1.5 - Module Quiz	Assignment	20
9/2/25	1.1.6 - Network Topologies	Assignment	1
9/9/25	2.1.7 - Ethernet Specifications	Assignment	1
9/9/25	2.1.8 - Lab: Reconnect to an Ethernet Network	Assignment	3

Due Date	Assignment Name	Assignment Type	Points
9/9/25	2.1.9 - Lesson Review	Assignment	10
9/9/25	2.2.10 - Identify Connectors	Assignment	1
9/9/25	2.2.11 - Lesson Review	Assignment	10
9/9/25	2.2.7 - Lab: Connect to an Ethernet Network	Assignment	2
9/9/25	2.2.8 - Lab: Connect a Cable Modem	Assignment	5
9/9/25	2.2.9 - Identify Cabling	Assignment	1
9/9/25	2.3.10 - Lesson Review	Assignment	10
9/9/25	2.3.6 - Lab: Explore Multiple Locations in a Lab	Assignment	4
9/9/25	2.3.7 - Lab: Connect Network Devices	Assignment	4
9/9/25	2.3.8 - Lab: Connect Patch Panel Cables 1	Assignment	3
9/9/25	2.3.9 - Lab: Connect Patch Panel Cables 2	Assignment	3
9/9/25	2.4.10 - Lesson Review	Assignment	15
9/9/25	2.4.8 - Lab: Connect Fiber Optic Cables	Assignment	4
9/9/25	2.4.9 - Identify Fiber Optic Connectors	Assignment	1

Due Date	Assignment Name	Assignment Type	Points
9/9/25	2.5.5 - Lesson Review	Assignment	10
9/9/25	2.6.10 - Lab: Explore Physical Connectivity 1	Assignment	11
9/9/25	2.6.11 - Lab: Explore Physical Connectivity 2	Assignment	7
9/9/25	2.6.12 - Lab: Troubleshoot Physical Connectivity 1	Assignment	1
9/9/25	2.6.13 - Lab: Troubleshoot Physical Connectivity 2	Assignment	1
9/9/25	2.6.14 - Lab: Troubleshoot Physical Connectivity 3	Assignment	1
9/9/25	2.6.15 - Lab: Troubleshoot Physical Connectivity 4	Assignment	2
9/9/25	2.6.16 - Lesson Review	Assignment	15
9/9/25	2.7 - Module Quiz	Assignment	30
9/16/25	3.1.10 - Lesson Review	Assignment	15
9/16/25	3.1.7 - Compare Network Adapters	Assignment	1

Due Date	Assignment Name	Assignment Type	Points
9/16/25	3.1.8 - Lab: Select and Install a Network Adapter	Assignment	3
9/16/25	3.1.9 - Lab: Connect a Media Converter	Assignment	5
9/16/25	3.2.10 - Lesson Review	Assignment	10
9/16/25	3.2.7 - Lab: Install a Switch in the Rack	Assignment	1
9/16/25	3.2.8 - Lab: Secure a Switch	Assignment	3
9/16/25	3.2.9 - Lab: Cisco IOS Basics	Assignment	1
9/16/25	3.3.6 - Lab: Configure Port Aggregation	Assignment	6
9/16/25	3.3.7 - Lab: Enable Jumbo Frame Support	Assignment	5
9/16/25	3.3.8 - Lab: Configure PoE	Assignment	5
9/16/25	3.3.9 - Lesson Review	Assignment	15
9/16/25	3.4.10 - Lesson Review	Assignment	16
9/16/25	3.4.8 - Lab: Troubleshoot Disabled Ports	Assignment	3
9/16/25	3.4.9 - Lab: Switching Loop	Assignment	2
9/16/25	3.5 - Module Quiz	Assignment	20

Due Date	Assignment Name	Assignment Type	Points
9/16/25	3.6 - Checkpoint Review	Assignment	20
9/23/25	4.1.6 - Lab: Explore Packets and Frames	Assignment	1
9/23/25	4.1.7 - Lab: Explore ARP in Wireshark	Assignment	1
9/23/25	4.1.8 - Lesson Review	Assignment	10
9/23/25	4.2.10 - Lab: Configure IP Addresses on Mobile Devices	Assignment	2
9/23/25	4.2.11 - Lab: Configure IP Addresses on Linux	Assignment	3
9/23/25	4.2.12 - Lesson Review	Assignment	15
9/23/25	4.2.9 - Lab: Configure IP Addresses	Assignment	3
9/23/25	4.3.7 - Lab: Configure IP Networks and Subnets	Assignment	1
9/23/25	4.3.8 - Lesson Review	Assignment	10
9/23/25	4.4.5 - Lab: IPv4 Troubleshooting Tools	Assignment	1
9/23/25	4.4.6 - Lab: IPv4 Troubleshooting tools for Linux	Assignment	9
9/23/25	4.4.7 - Lab: Use IPv4 Test Tools	Assignment	1

Due Date	Assignment Name	Assignment Type	Points
9/23/25	4.4.8 - Lesson Review	Assignment	10
9/23/25	4.5.10 - Lesson Review	Assignment	15
9/23/25	4.5.9 - Lab: Configure an IPv6 Address	Assignment	3
9/23/25	4.6.4 - Lab: Use ping and tracert on Windows	Assignment	1
9/23/25	4.6.5 - Lab: Use ping and traceroute on Linux	Assignment	3
9/23/25	4.6.6 - Lab: Assisted Troubleshooting 1	Assignment	1
9/23/25	4.6.7 - Lab: Assisted Troubleshooting 2	Assignment	1
9/23/25	4.6.8 - Lab: Assisted Troubleshooting 3	Assignment	1
9/23/25	4.6.9 - Lesson Review	Assignment	10
9/30/25	5.1.10 - Lab: Cisco Troubleshooting Tools	Assignment	1
9/30/25	5.1.11 - Lesson Review	Assignment	10
9/30/25	5.1.9 - Lab: Install an Enterprise Router	Assignment	1
9/30/25	5.2.7 - Lesson Review	Assignment	10
9/30/25	5.3.4 - Lab: Configure NAT	Assignment	3

Due Date	Assignment Name	Assignment Type	Points
9/30/25	5.3.5 - Lesson Review	Assignment	10
9/30/25	5.4.3 - Lesson Review	Assignment	5
9/30/25	5.5.3 - Compare Three-Tier Hierarchical Model	Assignment	1
9/30/25	5.5.4 - Lab: Create a Three-Tier Network	Assignment	1
9/30/25	5.5.5 - Lesson Review	Assignment	5
9/30/25	5.6.10 - Lab: Configure Trunking	Assignment	5
9/30/25	5.6.11 - Lab: Configure Switch IP Settings - CLI	Assignment	4
9/30/25	5.6.12 - Lab: Configure Management VLAN Settings - CLI	Assignment	3
9/30/25	5.6.13 - Lesson Review	Assignment	10
9/30/25	5.6.8 - Lab: Configure Switch IP and VLAN - GUI	Assignment	4
9/30/25	5.6.9 - Lab: Create VLANs - GUI	Assignment	4
9/30/25	5.7.4 - Lesson Review	Assignment	10
10/7/25	6.1.7 - Lab: Explore Three-Way Handshake in Wireshark	Assignment	7

Due Date	Assignment Name	Assignment Type	Points
10/7/25	6.1.8 - Lab: View Open Ports with netstat	Assignment	3
10/7/25	6.1.9 - Lesson Review	Assignment	15
10/7/25	6.2.10 - Lab: Configure Client Addressing for DHCP	Assignment	1
10/7/25	6.2.11 - Lesson Review	Assignment	10
10/7/25	6.2.5 - Lab: Configure a DHCP Server	Assignment	3
10/7/25	6.2.6 - Lab: Configure DHCP Server Options	Assignment	3
10/7/25	6.2.7 - Lab: Create DHCP Exclusions	Assignment	1
10/7/25	6.2.8 - Lab: Create DHCP Client Reservations	Assignment	5
10/7/25	6.3.4 - Lab: Explore APIPA Addressing	Assignment	1
10/7/25	6.3.5 - Lab: Explore APIPA Addressing in Network Modeler	Assignment	1
10/7/25	6.3.7 - Lesson Review	Assignment	5
10/7/25	6.4.10 - Lab: Troubleshoot IP Configuration 3	Assignment	1
10/7/25	6.4.11 - Lesson Review	Assignment	5

Due Date	Assignment Name	Assignment Type	Points
10/7/25	6.4.4 - Lab: Configure a DHCP Relay Agent	Assignment	5
10/7/25	6.4.5 - Lab: Add a DHCP Server on Another Subnet	Assignment	5
10/7/25	6.4.6 - Lab: Troubleshoot Address Pool Exhaustion	Assignment	1
10/7/25	6.4.7 - Lab: Explore DHCP Troubleshooting	Assignment	8
10/7/25	6.4.8 - Lab: Troubleshoot IP Configuration 1	Assignment	8
10/7/25	6.4.9 - Lab: Troubleshoot IP Configuration 2	Assignment	6
10/7/25	6.5.11 - Lab: Configure DNS Addresses	Assignment	3
10/7/25	6.5.12 - Lab: Create Standard DNS Zones	Assignment	4
10/7/25	6.5.13 - Lab: Create Host Records	Assignment	6
10/7/25	6.5.14 - Lab: Create CNAME Records	Assignment	3
10/7/25	6.5.15 - Lab: Troubleshoot DNS Records	Assignment	3

Due Date	Assignment Name	Assignment Type	Points
10/7/25	6.5.17 - Lesson Review	Assignment	15
10/7/25	6.6.5 - Lab: Explore nslookup	Assignment	2
10/7/25	6.6.6 - Lab: Use nslookup	Assignment	4
10/7/25	6.6.7 - Lesson Review	Assignment	10
10/7/25	6.7 - Module Quiz	Assignment	30
10/14/25	7.1.4 - Lab: Configure NTP on Linux	Assignment	6
10/14/25	7.1.5 - Lesson Review	Assignment	10
10/14/25	7.2.8 - Lab: Scan for Web Services with Nmap	Assignment	2
10/14/25	7.2.9 - Lesson Review	Assignment	15
10/14/25	7.3.6 - Lab: Connect VoIP 1	Assignment	4
10/14/25	7.3.7 - Lab: Connect VoIP 2	Assignment	4
10/14/25	7.3.8 - Lesson Review	Assignment	10
10/14/25	7.4.8 - Lab: Configure NIC Teaming	Assignment	5
10/14/25	7.4.9 - Lesson Review	Assignment	15
10/21/25	8.1.11 - Lab: Update Firmware	Assignment	3
10/21/25	8.1.12 - Lesson Review	Assignment	15

Due Date	Assignment Name	Assignment Type	Points
10/21/25	8.2.8 - Lab: Scan Using Zenmap	Assignment	3
10/21/25	8.2.9 - Lesson Review	Assignment	15
10/21/25	8.3.6 - Lesson Review	Assignment	5
10/21/25	8.4.10 - Lab: View Event Logs	Assignment	3
10/21/25	8.4.11 - Lesson Review	Assignment	10
10/21/25	8.4.6 - Lab: Configure Logging in pfSense	Assignment	5
10/21/25	8.4.7 - Lab: Evaluate Event Logs in pfSense	Assignment	1
10/21/25	8.4.8 - Lab: Auditing Device Logs on a Cisco Switch	Assignment	3
10/21/25	8.4.9 - Lab: Configure Logging on Linux	Assignment	1
10/21/25	8.5.5 - Lab: Troubleshoot with Wireshark	Assignment	14
10/21/25	8.5.6 - Lab: Configure Port Mirroring	Assignment	3
10/21/25	8.5.7 - Lesson Review	Assignment	10
10/21/25	8.6.7 - Lab: Configure QoS	Assignment	8

Due Date	Assignment Name	Assignment Type	Points
10/21/25	8.6.9 - Lesson Review	Assignment	15
10/28/25	9.1.7 - Lab: Create a Honeypot	Assignment	4
10/28/25	9.1.8 - Lesson Review	Assignment	15
10/28/25	9.2.5 - Lab: Analyze a DoS Attack	Assignment	1
10/28/25	9.2.6 - Lab: Analyze a DDoS Attack	Assignment	2
10/28/25	9.2.7 - Lesson Review	Assignment	15
10/28/25	9.3.10 - Lesson Review	Assignment	10
10/28/25	9.3.7 - Lab: Poison ARP and Analyze with Wireshark	Assignment	2
10/28/25	9.3.8 - Lab: Spoof MAC Addresses with SMAC	Assignment	8
10/28/25	9.3.9 - Lab: Perform a DHCP Spoofing On-Path Attack	Assignment	6
10/28/25	9.4.10 - Lesson Review	Assignment	10
10/28/25	9.4.6 - Lab: Discover a Rogue DHCP Server	Assignment	4
10/28/25	9.4.7 - Lab: Configure DHCP Snooping	Assignment	5

Due Date	Assignment Name	Assignment Type	Points
10/28/25	9.4.8 - Lab: Poison DNS	Assignment	3
10/28/25	9.4.9 - Lab: Analyze DNS Spoofing	Assignment	5
10/28/25	9.5.3 - Lab: Respond to Social Engineering Exploits	Assignment	9
10/28/25	9.5.4 - Lab: Crack a Password with John the Ripper	Assignment	4
10/28/25	9.5.5 - Lesson Review	Assignment	5
10/28/25	9.6 - Module Quiz	Assignment	25
11/4/25	10.1.9 - Lesson Review	Assignment	15
11/4/25	10.2.5 - Lab: Manage Account Policies	Assignment	2
11/4/25	10.2.6 - Lesson Review	Assignment	10
11/4/25	10.3.3 - View Linux Services	Assignment	3
11/4/25	10.3.5 - Lab: Scan for Unsecure Protocols	Assignment	5
11/4/25	10.3.6 - Lab: Enable and Disable Linux Services	Assignment	2
11/4/25	10.3.7 - Lab: Disable Network Service	Assignment	4

Due Date	Assignment Name	Assignment Type	Points
11/18/25	12.3.10 - Lab: Secure a Home Wireless Network	Assignment	5
11/18/25	12.3.11 - Lab: Enable Wireless Intrusion Prevention	Assignment	3
11/18/25	12.3.12 - Lesson Review	Assignment	10
11/18/25	12.3.8 - Lab: Create a Guest Network for BYOD	Assignment	4
11/18/25	12.3.9 - Lab: Secure an Enterprise Wireless Network	Assignment	3
11/18/25	12.4.10 - Lesson Review	Assignment	15
11/18/25	12.4.7 - Lab: Explore Wireless Network Problems	Assignment	6
11/18/25	12.4.8 - Lab: Troubleshoot Wireless Network Problems	Assignment	1
11/18/25	12.4.9 - Lab: Optimize a Wireless Network	Assignment	5
11/18/25	12.5 - Module Quiz	Assignment	20
11/25/25	13.1.4 - Lesson Review	Assignment	10

Due Date	Assignment Name	Assignment Type	Points
11/25/25	13.2.10 - Lab: Configure a RADIUS Solution	Assignment	5
11/25/25	13.2.11 - Lesson Review	Assignment	15
11/25/25	13.2.8 - Lab: Configure a Remote Access VPN	Assignment	6
11/25/25	13.2.9 - Lab: Configure an iPad VPN Connection	Assignment	2
11/25/25	13.3.10 - Lesson Review	Assignment	15
11/25/25	13.3.8 - Lab: Allow Remote Desktop Connections	Assignment	1
11/25/25	13.3.9 - Lab: Use PowerShell Remote	Assignment	4
11/25/25	13.4 - Module Quiz	Assignment	15
12/2/25	14.1.5 - Lab: Configure an iSCSI Target	Assignment	3
12/2/25	14.1.6 - Lab: Configure an iSCSI Initiator	Assignment	3
12/2/25	14.1.7 - Lesson Review	Assignment	10
12/2/25	14.2.5 - Lesson Review	Assignment	10
12/2/25	14.3.7 - Lesson Review	Assignment	15

Due Date	Assignment Name	Assignment Type	Points
12/2/25	14.4.9 - Lesson Review	Assignment	15
12/13/25	Competency in Networking	Assignment	100

Grading Scale

A	94-100	B+	87-89.99	C+	77-79.99	D+	67-69.99	E	0-59.99
A-	90-93.99	B	84-86.99	C	74-76.99	D	64-66.99		
		B-	80-83.99	C-	70-73.99	D-	60-63.99		

How to Navigate to Canvas

Institutional Policies

As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

For more information, navigate to the Institutional Policies tab on the [Institutional Syllabus](#) page.

Learning Support and Tutoring Services

We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or

want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, visit the [Institutional Syllabus](#) page under the Tutoring and Learning Support tab. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

[Advising and Counseling Support Services](#)

At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, visit the [Institutional Syllabus](#) page under the Advising and Counseling Support Services tab. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

[Student Academic Calendar](#)

As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

[SLCC Student Academic Calendar](#)

[Additional Policies](#)

Please contact your instructor if a hardship prevents you from submitting exams by the due date.