

CSIS 3782 - Cisco Networking Academy 1

Fall 2026 Syllabus, Section 01, CRN 42423,

Credit hours: 3

Instructor

Todd Jones

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Public Instructor Information

Instructor Title: Senior Lecturer

Instructor Professional Qualifications: Master of Computing and Information Systems (MCIS) - Youngstown State University - 2019

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Course Description

3782. Cisco Networking Academy 1. Introduction to Networks (ITN) covers the architecture, structure, functions and components of the Internet and other computer networks. Students achieve a basic understanding of how networks operate and how to build simple local area networks (LAN), perform basic configurations for routers and switches, and implement Internet Protocol (IP). Two hours lecture and two hours lab per week. Prereq.: CSIS 1590. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	CCNA 200-301 Official Cert Guide Library	Wendell Odom	1587147149

Textbook: CCNA 200-301 Official Cert Guide Library, 1st Edition, Cisco Press, by Wendell Odom. ISBN-13: 978-1587147142. ISBN-10: 1587147149

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Tentative Course Schedule

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24		Class Layout and set up. https://download.respondus.com/lockdown/download.php?id=723542058 Networking Basics and Switch and End Device Configuration	Download Packet Tracer (Not graded) Discussion on Cutting Edge of Technology.
8/31	Module 2	Protocols and Models	Checkpoint Exam 1 (Quiz 1) 2.5.5 Configure Switch Settings (Lab 1)
9/7	Module 3	Physical Layer	2.7.6 Implement Basic Connectivity (Lab 2) 2.9.1 Basic Switch and End Device Configuration (Lab 3)
9/14	Module 4	Number System	Number System Practice (Homework 2) Begin Subnetting
9/21	Module 5	Data Link Layer	Subnetting Work Book (Homework 3)
9/28	Module 6	Ethernet Switching	Check Point Exam (Quiz 2)
10/5	Module 7	Network Layer	Midterm Up to week 7 Content and subnetting
10/12	Module 8 + 9	Address Resolution	Module 9 Packet Tracers (Lab 4) not graded



10/19	Module 10	Basic Router Config	10.3.5 Troubleshoot Default Gateway issues (Lab 4) Checkpoint Exam (Quiz 3)
10/26	Module 11	IPv4 Addressing	11.5.5 Subnet an IPv4 Network (Lab 5 part 1 of 2) 11.7.5 Subnetting Scenario (Lab 5 part 2 of 2) 11.9.3 VLSM Design and Implementation (Lab 6)
11/2	Module 12	IPv6 Addressing	12.4.5 Basic Device Configuration IPv6. (Lab 7)
11/9	Module 13	ICMP and Transport Layer	Checkpoint Exam (Quiz 4)
11/16	Module 14	Application Layer	
11/23	Module 15	Network Security Fundamentals	16.4.6 Configure Secure Passwords and SSH (Lab 8) Checkpoint Exam (Quiz 5) 17.8.2 Skill Integration Challenge (Lab 9)
11/30	Module 16	Small Network Construction	Checkpoint Exam (Quiz 6) 17.8.3 Troubleshooting Challenge (Lab 10) Practice Finals for Lab and Written Portion of the Final.
12/7	Finals	Prep for Both the Written and Packet Tracer Final	Finals

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.