

CIS 354 – Network Management II

Course Title: CIS 354 Network Management II

Class Schedule: M W 12:00pm – 2:00pm **Location:** SCI B348

Final Exam: Tuesday May 15th, 2018 12:30pm to 2:30pm, SCI B348

Instructor: Chad Johnson

Office: ALB 002

Phone: 715-346-2020

Chad.Johnson@uwsp.edu

Office hours: T 2:00pm - 3:00pm

Course Description

Extend and strengthen skills and knowledge learned from CIS 250 by more focusing on Wide Area Network (WAN). The topics are LAN switching technologies (RSTP, PVSTP, spanning tree mode), IP routing technologies (bootup process, routing protocols including OSPF and EIGRP), IP services (understand high availability, syslog, and SNMP), troubleshooting, and WAN technologies (MPLS, VPN, Cable). Lectures and hands-on labs are provided with Cisco switches and routers and-or simulators

Course Objectives

- Extend the knowledge gained in Network Management I
- Understand core technologies in network management
- Adequately troubleshoot common networking issues

Textbook

- *CCNA Routing and Switching ICND2-200-105*, Academic Edition, By Wendell Odom, ISBN-13: 978-1587205989

Lectures

- Lecture notes MIGHT be posted in D2L. Honestly, I make every effort to make my notes available, but I may decline to include them at my discretion.
- Students are strongly encouraged to attend each class and actively participate in class discussions. You are also encouraged to participate in discussions and assignments
- Class attendance may be taken in any class without notification in advance.

Grading

- 6 Quizzes: 30%
- 2 Exams / Papers: 40% (20% each)
- 5 Labs: 30%

Note: Schedule / Syllabus is tentative and subject to change.

Final grades will be assigned according to the following scale:

A: score \geq 90	A-: 87 \leq score $<$ 90	
B+: 83 \leq score $<$ 87	B: 80 \leq score $<$ 83	B-: 77 \leq score $<$ 80
C+: 73 \leq score $<$ 77	C: 70 \leq score $<$ 73	C-: 65 \leq score $<$ 70
D: 60 \leq score $<$ 65		
F: score $<$ 60		

Scale may be adjusted, depending on the overall performance of the class.

Assignments and Deadlines

- Each assignment must be submitted by 11:59pm on the day it is due. Late submissions will not be accepted.
- You must submit your assignments online through D2L. **I will not take submissions in email, unless the university verifies that D2L was malfunctioning or unavailable.**

Exams

- Exams taken in class are closed book and no-computers/phones, but open-notes – whatever you can write onto the front and back of a single 3" x 5" standard index card. If you print this, use 14pt Times New Roman font, and be double-spaced.
- Exams taken on D2L are open-book, and you are free to use all resources at your disposal to complete the exam. Plagiarism and cheating, however, will not be tolerated.
- Final exam is comprehensive.
- In general, any test or exam CANNOT be made up.
- If you miss a test or exam due to unavoidable circumstances (e.g., health), you must inform the instructor and a written explanation along with the supporting documents must be submitted to the instructor.

Office Hours Policy

- I prefer that you contact me via email.
- However, you are still welcome to my office to ask me any questions at any other times.

Regrading

Scores of Assignments, Labs, and Exams will be posted in D2L, and announcements will be made in D2L. After the scores are announced, you have 7 days to request for regrading by contacting the instructor (office hours or email). Your grade will be final after 7 days.

D2L

The D2L URL is <https://uwsp.courses.wisconsin.edu>. Use your UWSP NetID and password to login. We use D2L for the following activities:

- Make important announcements.
- Posting assignment instructions and files.
- Students submit assignments electronically.
- Posting scores and grades.

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Academic Integrity

The university cannot and will not tolerate any form of academic dishonesty by its students. This includes, but is not limited to cheating on examinations, plagiarism, or collusion. **Any form of academic dishonesty may lead to F grade for this course.**

Students with Disabilities

If you require accommodation based on disability, please let me know to ensure that you are appropriately accommodated.

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Week	Date	Day	Lecture Topics	Readings	Assignment
1	01/22	Monday	Introduction		
1	01/24	Wednesday	Implementing Ethernet Virtual LANs	1	
2	01/29	Monday	Spanning Tree Protocol Concepts	2	
2	01/31	Wednesday	Spanning Tree Protocol Implementation	3	Quiz 1
3	02/05	Monday	LAN Troubleshooting	4	
3	02/07	Wednesday	VLAN Trunking Protocol	5	Lab 1
4	02/12	Monday	Miscellaneous LAN Topics	6	
4	02/14	Wednesday	Understanding OSPF Concepts	7	Quiz 2
5	02/19	Monday	Implementing OSPF for IPv4	8	
5	02/21	Wednesday	Understanding EIGRP Concepts	9	Lab 2
6	02/26	Monday	Implementing EIGRP for IPv4	10	
6	12/28	Wednesday	Troubleshooting IPv4 Routing Protocols	11	Quiz 3
7	03/05	Monday	Implementing External BGP	12	
7	13/07	Wednesday	Implementing Point-to-Point WANs	13	Lab 3
8	03/12	Monday	Private WANs with Ethernet and MPLS	14	
8	03/14	Wednesday	Private WANs with Internet VPN	15	Quiz 4
9	03/19	Monday	Basic IPv4 ACLs	16	
9	03/21	Wednesday	Advanced IPv4 ACLs	17	Mid-Term
	03/26	Monday	** SPRING BREAK **		
	03/28	Wednesday	** SPRING BREAK **		
10	04/02	Monday	Quality of Service	18	
10	04/04	Wednesday	IPv4 Routing in the LAN	19	
11	04/09	Monday	Implementing HSRP for First-Hop Routing	20	
11	04/11	Wednesday	Troubleshooting IPv4 Routing	21	Quiz 5
12	04/16	Monday	IPv6 Routing Operation and Troubleshooting	22	
12	04/18	Wednesday	Implementing OSPF for IPv6	23	Lab 4
13	04/23	Monday	Implementing EIGRP for IPv6	24	
13	04/25	Wednesday	IPv6 ACLs	25	Quiz 6
14	04/30	Monday	Network Management	26	
14	05/02	Wednesday	Cloud Computing	27	Lab 5
15	05/07	Monday	SDN and Network Programmability	28	
15	05/09	Wednesday	Review	29	
16	05/15	Tuesday	Final Exam (12:30pm to 2:30pm, SCI B348)		Final Exam

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