

Kishwaukee College

Spring 2016

Cisco Networking II

CIS 146 – 5002

LOCATION AND TIME: Monday 6:00-9:35 PM - Room 1372

DATES; 1/18/16 – 5/09/16

INSTRUCTOR Mark Uscian

Office: A1371

Office Hours:

Monday	4:00 - 5:10 PM
Tuesday	3:30 - 4:40 PM
Wednesday	4:00 - 5:10 PM
Thursday	2:00 - 3:15 PM
Friday	N/A

Dept Secretary (815)-825-2086 x 2030 – leave a message

Email: Muscian@kishwaukeecollege.edu

COURSE DESCRIPTION

The second course in the Cisco Networking Academy program sequence of four classes, (CIS 145, CIS146, CIS 147, CIS 148), designed to prepare the student to take the Cisco Certified Network Associate (CCNA) exam. This course describes the architecture, components, and operation of routers, and explains the principles of routing and routing protocols. Students analyze, configure, verify, and troubleshoot the primary routing protocols RIPv1, RIPv2, EIGRP and OSPF. Students will be able to recognize and correct common routing issues and problems. Basic configuration, implementation, and troubleshooting labs are presented. Packet Tracer (PT) activities reinforce new concepts, and allow students to model and analyze routing processes that may be difficult to visualize or understand. Four hours lecture/discussion/guided labs a week.

AI Number: N/A

Prerequisite: CIS 145

STUDENT LEARNING OUTCOMES (SLO)

- Understand and describe basic switching concepts and the operation of switches.
- Understand and describe the purpose, nature and operations of a router, routing tables and the route lookup process.
- Understand and describe how VLANs create logically separate networks and how routing occurs between them.
- Understand and describe dynamic routing protocols. Distance vector routing protocols and link-state routing protocols.
- Configure and troubleshoot static routing and default routing (RIP and RIPng).
- Configure and troubleshoot an Open Shortest Path First (OSPF) Network.
- Understand, configure and troubleshoot access control lists (ACLs) for IPv4 and IPv6 networks.
- Understand, configure and troubleshoot Dynamic Host Configuration Protocol (DHCP) for IPv4 and IPv6 Networks
- Understand, configure and troubleshoot Network Address Translation (NAT) operations

TEXT(S)

- No text needed all materials are online.

REQUIRED STUDENT MATERIALS

- Flash drive for storing Lab Screen Shots and Lab folders

ADDITIONAL STUDENT REFERENCES AND THEIR LOCATIONS

- Supplemental reference handouts (provided in class)

BREAKDOWN OF COURSE REQUIREMENTS

11 On-line Chapter Tests 55% of Grade	550 points
Skills based Packet Tracer labs or hands-on lab final 15% of Grade	150 points
On-line Final Exam 10% of Grade	100 points
Labs 20% of Grade	200 points
-----	-----
-	-
Total	1000 points

OTHER COURSE REQUIREMENTS: N/A

FINAL GRADE DETERMINATION: Grade reports will not be mailed out. *Please check KishSOS, My Student Info, under Academic Profile, Grades, for grade reports*

90-100% = A – 900-1000 points

80-90% = B – 800-899 points

70-80% = C – 700-799 points
 60-70% = D – 600-699 points
 < 60 = F - < 600 points

COURSE EXIT REQUIREMENTS: N/A

TENTATIVE WEEKLY SCHEDULE

Please note that this schedule and the topics covered are subject to change depending upon a variety of factors. Changes will be announced in class. If you are not able to attend class, it is your responsibility to find out what was covered.

Week 1 1/18	NO CLASS MLK Holiday	
Week 2 1/25	Syllabus Review; Chapter One Introduction to Switched Networks; Labs Chapter one	
Week 3 2/1	Chapter Two Basic Switch Concepts and Configuration; Labs Chapter two	
Week 4 2/8	Chapter Three VLANS; Labs Chapter Three	
Week 5 2/15	Chapter Four Routing Concepts; Labs Chapter Four	
Week 6 2/22	Chapter Five Inter-VLAN Routing; Labs Chapter Five	
Week 7 2/29	Chapter Six Static Routing; Labs Chapter Six	
Week 8 3/7	Chapter Six Static Routing; Labs Chapter Six	
Week 9 3/21	Catchup labs and tests	
Week 10 3/28	Chapter Seven Routing Dynamically; Labs Chapter Seven	
Week 11 4/4	Chapter Eight Single Area OSPF; Labs Chapter Eight	
Week 12 4/11	Chapter Nine Access Control Lists; Labs Chapter Nine	

Week 13 4/18	Chapter Nine Access Control Lists; Labs Chapter Nine	
Week 14 4/25	Chapter Ten DHCP; Labs Chapter Ten	
Week 15 5/2	Chapter Eleven NAT; Labs Chapter Eleven	
Week 16 5/9	LABS and TESTS	
Final Exam 5/16	<u>Final Exam 6-7:50PM</u>	

MAKE-UP POLICY

Missed labs and/or tests may or may not be made up depending upon individual circumstances. In all cases contact the instructor via email or telephone to review options and procedures for completing missed tests or labs.

ATTENDENCE POLICY: N/A

CLASS WITHDRAWAL

A "W" cannot be given as a final grade. The student is responsible for officially withdrawing from the class according to procedures described in the college catalog. Any student that does not officially withdraw from the class will receive a letter grade. The last date for withdrawal for this course can be found at "MY CLASS SCHEDULE" on KishSOS. Kishwaukee College reserves the right to administratively withdraw at midterm those students who are not actively pursuing course objectives or who are in violation of standards of behavior as outlined in the Student Code of Conduct and Discipline. For a copy of the student conduct policy, contact the Vice President of Student Services Office or refer to the Kishwaukee College catalog.

INCOMPLETE GRADE

All course requirements must be completed by the end date for the course. In the event that extremely difficult circumstances merit granting a student more time to finish course requirements, an "Incomplete" (I) grade may be given. Taking an Incomplete is possible only at the instructor's discretion. To receive an Incomplete, a contract between the student and the instructor must be completed and approved regarding the completion of all remaining work within a strictly defined period of time. If the conditions of the contract are not met, an "I" grade may revert to an "F".

CLASS CANCELLATIONS

Class cancellations due to inclement weather will be posted on the College Website: www.kishwaukeecollege.edu. or announced by the local radio stations. Students may also call the College at (815) 825-2086. Class cancellations due to instructor absence will be posted on the classroom door and posted at www.kishwaukeecollege.edu/class_cancellations. Room changes will be announced in advance whenever possible and posted on the classroom door.

ACADEMIC DISHONESTY

In order to evaluate student work, faculty must be able to trust that the work is original with a student and not the work of someone else. Cheating, falsifying information, forgery, plagiarism, and other dishonest actions will not be tolerated. Sanctions for academic dishonesty are at the discretion of the instructor and subject to appeal as provided in Student Code of Conduct and Discipline. A complete explanation of the policy and procedures surrounding academic dishonesty are outlined in the Kishwaukee College Catalog.

COPYRIGHT

As a Kishwaukee College Student, you may have copyrighted materials or software made available to you by the college for course use. Please understand that copyright law may prohibit copying these materials. Violation of copyright laws can lead to prosecution for a criminal offense. You are required to abide by the specific copyright and licensing agreements that apply to each particular piece of software.

GRADUATION REQUIREMENTS FOR TRANSFER DEGREE STUDENTS

All students intending to graduate with an A.A., A.S., A.E.S., or A.F.A. are required to submit a complete Degree Portfolio. The Degree Portfolio is a means for the institution to measure its effectiveness in preparing students for successful completion of a degree at a transferring institution. Save your college-level work throughout your academic career in order to facilitate the portfolio compilation. Also, submit a completed application for graduation from the college the semester that you plan on graduating prior to submitting the complete Degree Portfolio. Guidelines and the specific requirements (along with the rubrics used for assessment) for the Degree Portfolio can be found at www.kishwaukeecollege.edu/portfolio.

ASSISTIVE RESOURCES CENTER/DISABILITY SERVICES

Any student with a documented disability or special learning need and wanting to request accommodations, should contact the Coordinator in A1317 or at (815) 825-2086 ext 3960, (815) 825-9106 (TTY), or send an email to awilson@kishwaukeecollege.edu. The student's disability must impact their ability to participate in the educational environment and be documented by an appropriate professional prior to accommodations being approved.

LEARNING SKILLS CENTER (A1300)

Students must present their Kishwaukee College student ID when using any Learning Skills Center services. For more information on the Learning Skills Center go to <http://www.kishwaukeecollege.edu/go/lsc>. Tutoring is available to all Kishwaukee students free of charge. The Writing Center (Learning Skills Center, A1306) answers your writing-related questions regardless of the class or assignment. Students are expected to bring all material related to the assignment, including textbooks, paper prompts, etc.

Make-up tests, online tests, and placement tests are available through Testing Services, also located in the Learning Skills Center

EMERGENCY PROCEDURES/SAFETY

Yellow and red Emergency Information flipcharts are located in each classroom. These are quick reference sheets with telephone numbers to reach emergency assistance and a brief description of

the correct actions to take in the event of a tornado, fire or other emergency on campus.

RELIGIOUS OBSERVANCES

Students faced with schedule conflicts related to a religious observance should make prior arrangements with the instructor a minimum of seven (7) school days in advance of the examination or other activity involved.

STUDENT E-MAIL

Your Kishwaukee College e-mail account will be the only way to receive official notices from the College. If you choose to forward your e-mail to another account, please be advised that all communication from and within the college will use your Kishwaukee student e-mail. When communicating with instructors or employees of the college, you are required to use your Kishwaukee e-mail address.

COMMUNITY RESOURCES

There are numerous community resources that are available to assist students in addressing a variety of personal needs. A listing and description of community resources can be found at <http://www.kishwaukeecollege.edu/go/communityresources>