

KISHWAUKEE COLLEGE

Fall 2016

Cisco Networking I

CIS 145 - 3002

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

DATES; 08/29/2016 – 12/19/2016

INSTRUCTOR Dana Fellows

Office: A1371

Office Hours:

Monday	4:00 PM - 5:30 PM
Tuesday	4:00 PM - 5:30 PM
Wednesday	9:00 AM - 10:00 AM
Thursday	4:00 PM - 5:30 PM
Friday	N/A

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

Email: dana.fellows@kishwaukeecollege.edu

COURSE DESCRIPTION

Introduction to Networks: This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. This is the first course in the Cisco Networking Academy program sequence of four classes, (CIS145, CIS146, CIS147, CIS148), designed to prepare the student to take the Cisco Certified Network Associate (CCNA) exam.

IAI Number: N/A

PREREQUISITE: N/A

STUDENT LEARNING OUTCOMES (SLO)

- Understand and describe the devices and services used to support communications in data networks and the Internet

- Understand and describe the role of protocol layers in data networks
- Understand and describe the importance of addressing and naming schemes at various layers of data networks in IPv4 and IPv6 environments
- Design, calculate, and apply subnet masks and addresses to fulfill given requirements in IPv4 and IPv6 networks
- Explain fundamental Ethernet concepts such as media, services, and operations
- Build a simple Ethernet network using routers and switches
- Use Cisco command-line interface (CLI) commands to perform basic router and switch configurations
- Utilize common network utilities to verify small network operations and analyze data traffic

TEXT(S)

- All text materials are online - no text required

REQUIRED STUDENT MATERIALS

- Flash drive for storing Lab Screen Shots and Lab folders
- 3 ring binder for labs

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
Lab Assignments 25% of Grade	250 points
On-line Final Exam 10% of Grade	100 points
Hands-on Lab Final 10% of Grade	100 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
- 80-89% = B
- 70-79% = C
- 60-69% = D
- < 59 = F

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 8/29	Syllabus Review; Chapter One- Exploring the Network; Labs and Activities Chapter One	
Week 2 09/05	No Class Labor Day	
Week 3 09/12	Chapter Two; Configuring a Network Operating System; Labs and Activities Chapter Two	
Week 4 09/19	Chapter Three - Network Protocols and Communication; Labs Chapter 2 & 3	Benchmark - Test Chapter 1
Week 5 09/26	Chapter Four - Network Access; Labs and Activities Chapter Three and Four	Benchmark - Test Chapter 2
Week 6 10/03	Chapter Five - Ethernet; Labs and Activities Chapter Four & Five	Benchmark - Test Chapter 3
Week 7 10/10	Chapter Six - Network Layer; Labs and Activities Chapter Five & Six	Benchmark - Test Chapter 4
Week 8 10/17	Chapter Seven – Transport Layer; Labs Chapter Six & Seven	Benchmark - Test Chapter 5
Week 9 10/21	Chapter Eight - IP Addressing; Labs and Activities Chapters Seven & Eight	Benchmark - Test Chapter 6
Week 10 10/31	Catch Up With Labs	
Week 11 11/07	Chapter Nine - Subnetting IP Networks; Labs and Activities Chapters Eight & Nine	
Week 12 11/14	Finish Chapter Nine Subnetting IP Networks; Labs and Activities Chapters Eight & Nine	Benchmark - Test Chapter 7
Week 13 11/21	Chapter 10 - Application Layer; Labs and Activities Chapters Ten	Benchmark - Test Chapter 8

Week 14 11/28	Chapter 11 - It's a Network; Labs and Activities Chapters Ten & Eleven	Benchmark - Test Chapter 9
Week 15 12/05	Finish Chapter 11 - It's a Network; Labs and Activities Chapters Ten & Eleven Hands-on Lab Final Practice	Benchmark - Test Chapter 10
Week 16 12/12	Hands-on Lab Final	Benchmark - Test Chapter 11
Final Exam - 12/19	Final Exam 6-7:30PM 12/14	

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

All students are expected to attend class on time and to be prepared to work. Should you miss a class it is your responsibility to determine what was covered during your absence and make arrangements to make up the lost work. Missing class is not an excuse for failing to turn in a worksheet or lab.

COMPUTER LABS:

Students will need to spend time outside of class completing labs. Online Labs can be done from any computer with Internet Access. Please make arrangements with the instructor if you wish to use the classroom outside of class time. Food and beverages are not permitted in the open computer lab or the classrooms.

BEHAVIOR:

Students are expected to show respect toward the instructor, other students and their work. Behavior inconsistent with this goal is not allowed in the classroom and is grounds for expulsion from the class.

CELL PHONES:

All cell phones and pagers must be turned off when entering the classroom. If you are expecting an emergency call during class, please tell the instructor before class starts so that an exception to this rule may be made. Any student using a cell phone during an exam will be assumed to have finished the exam at that time and the exam will be ended immediately.

EMAIL:

All class email correspondence must be sent using email provided by Kishwaukee College. All outside of Kishwaukee College should only be used in case of a failure of the Kishwaukee system. If a student uses the instructor's regular email account it will be treated as non-critical and answered when time permits, usually within one week.

ACADEMIC DISHONESTY:

Students found cheating on an exam or assignment will be given a grade of 0 for the exam or assignment. Students found cheating may be reported to the dean and the Vice President of Student Services.

KISHWAUKEE COLLEGE POLICIES AND RESOURCES

04/08/16

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|---|---|
| A. Academic Dishonesty | I. Graduation Requirements for Transfer Degree Students |
| B. Assistive Resources Center/Disability Services | J. Incomplete Grade |
| C. Attendance Verification Roster | K. Learning Skills Center |
| D. Class Cancellations | L. Recording of Classes/Presentations |
| E. Class Withdrawal | M. Religious Observances |
| F. Community Resources | N. Student E-mail |
| G. Copyright | O. Technical Support |
| H. Emergency Procedures/Safety | |
- Please see the Kishwaukee College Catalog for other policies and resources

A. 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. Detailed information can be found by clicking on this link: www.kishwaukeecollege.edu/student-life-essential-student-information/student-code-conduct

B. ASSISTIVE RESOURCES CENTER/DISABILITY SERVICES

Any student with a documented disability or special learning need and wanting to request accommodations, should contact the Assistive Resources Center in A1317 or at (815) 825-2086 ext. 4290, (815) 825-9106 (TTY). More information can be found on the MyKC Portal: <https://mykc.kishwaukeecollege.edu/collegeareas/vpss/disabilityservices/Pages/default.aspx>

C. ATTENDANCE VERIFICATION ROSTER

Students who do not attend their class during the refund period will be dropped from the class roster and will be charged for the class. More information can be found on the MyKC Portal: <https://mykc.kishwaukeecollege.edu/collegeareas/vpfa/bo/Pages/default.aspx>

D. 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. You may sign up for text alerts at myKC/Student Resources/Text Alert. Students may also call the College

at (815) 825-2086. Class cancellations due to instructor absence will be posted on the classroom door. Room changes will be announced in advance whenever possible and posted on the classroom door.

E. 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. Refer to page 166. Kishwaukee College reserves the right to administratively withdraw students from the Attendance Verification Roster or the Midterm Roster 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.

F. COMMUNITY RESOURCES

There are numerous community resources that are available to assist students in addressing a variety of personal needs. Resource contact information can be found on MyKC:

<https://mykc.kishwaukeecollege.edu/collegeareas/vpss/counseling/Pages/Documents.aspx>

G. 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 or further distribution of these materials. Full information can be found here: www.kishwaukeecollege.edu/student-life-essential-student-information-students-right-know/copyright-law-notification

H. 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. More information can be found in the college catalog on page 196.

I. GRADUATION REQUIREMENTS FOR TRANSFER DEGREE STUDENTS

Guidelines and specific requirements can be found here:

www.kishwaukeecollege.edu/academics-resources/graduation-requirements

J. 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. More information can be found in the college catalog on page 170.

K. LEARNING SKILLS CENTER (A1300)

Tutoring, The Writing Center, make-up tests, online tests, and placement tests are available through the Learning Skills Center. For more information, go to <https://mykc.kishwaukeecollege.edu/collegereas/vpi/lsc/Pages/default.aspx>

L. RECORDING OF CLASSES/PRESENTATIONS:

Kishwaukee College prohibits students from electronically recording class lectures and presentations (either by audio, video, picture, or otherwise) unless certain qualifying conditions are met.

- 1) The student requires the recording of lectures/presentations as part of his/her accommodations related to a disability that has been adequately documented with the Coordinator of the Assistive Resources Center.
- 2) The instructor has given advance written permission to the student that stipulates what may be recorded and by which device(s) the lectures/presentations may be recorded.

In either of the above cases, the following restrictions shall apply:

1. Recordings are solely for the use of the student designated either in the disability accommodations or the instructor's written permission to record.
2. Recordings must not be shared or reproduced for any reason.
3. Recordings must not be posted on any public or private website or social media service.
4. Recordings must be destroyed by the student at the end of the semester in which the recording was made.

A student found to have committed a violation of this procedure shall be subject to one or more sanctions described in the Code of Student Conduct and Discipline.

Students seeking to obtain permission to record a class must inquire with the instructor in question and, if the instructor agrees to allow recording, the student and instructor must complete a Permission to Record a Class/Lecture Presentation form.

M. 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.

N. STUDENT E-MAIL

Your Kishwaukee College e-mail account will be the official way to receive 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.

O. TECHNICAL SUPPORT

If you require technical support, please contact the Help Desk:

- a. helpdesk@kishwaukeecollege.edu
- b. (815) 825 2086, ext. 4357 (HELP)

- c. Visit the Helpdesk's office located in Media Services A1252
- d. <http://helpdesk.kishwaukeecollege.edu>