# NET 298 Networking II – Fall 2017 (2<sup>nd</sup> 8 weeks)

Instructor:	Sam Samara, CCNA, CCAI
	Kahl Educational Center
	326 W 3rd St
	Davenport IA 52801
Class:	Course # 185374 Room KAHL 624
Day of Class:	Monday and Wednesday 5:00 p.m. to 9:15 p.m. 10/16/2017 – 12/13/2017
Phone:	441-4200 Ext. 2553
E-mail:	ciscoteach@mchsi.com, ciscoteach@gmail.com, or ssamara@live.eicc.edu
Office Hours:	Arranged with students individually as needed
Important Dates:	Last date to drop as a withdraw – Dec. 8 <sup>th</sup>
	Mid-term / End of 8 weeks – Dec. 15th

## **Course Description:**

This is the second of four courses offered in cooperation with Cisco Systems and Cisco Networking Academies. The four courses are designed to prepare the student for the CCNA exam(s). The CCNA exam(s) is(are) Cisco's first level certification. Topics covered in this course include:

- Architecture, components, and operations of routers and switches in a small network along with router and a switch configuration for basic functionality.
- Enhanced switching technologies such as VLANs, VLAN Trunking Protocol (VTP), Rapid Spanning Tree Protocol (RSTP), Per VLAN Spanning Tree Protocol (PVSTP), and 802.1q.
- Enhanced routing technologies such as RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks.

Troubleshooting skills are practiced and emphasized. All course materials will be accessed on-line, except for the a few hands-on lab exercises and the final evaluations.

## **Attendance**

Attendance will be taken at the beginning of each class session. Good attendance is encouraged throughout the semester. Good attendance is important for success in the class. Class notes are extremely important as information may be presented in class that does not appear in the text. If you are absent, it is <u>your responsibility</u> to obtain class notes from another classmate. Since this is primarily a hands-on experience, it is imperative that you observe good attendance policies. You will only be permitted to take final exams in class during normal scheduled class sessions. The on-site Cisco lab equipment is only available in Room 624 during the time your class meets, so you must also be present in order to use the lab equipment for your lab assignments.

## **Required Materials**

CCNA Routing & Switching Essentials Lab Manual	by: Cisco Press	Available at SCC bookstore	
ISBN 978-1-58713-320-6			
Personal Headphones: For use with audio portion of curriculum			
A bound notebook for class notes (Logbook)			

#### **Optional Materials**

by: Cisco Press	Available at SCC bookstore
by: Cisco Press	Available at SCC bookstore
by: Cisco Press	Available outside of SCC
by Todd Lammle	Available outside of SCC
	by: Cisco Press by: Cisco Press

## **Chapter Exams**

There are 10 chapter exams in the CISCO curriculum that you will be required to take on-line at the Cisco Academy Testing Facility. Printed materials, typed, or hand written notes may be used during these chapter exams, and retests are allowed.

Each Exam is worth

12 points

#### **Lab Exercises**

There will be 32 graded lab exercises, from the lab manual, covering the areas of switching, routing, routing protocols, IP V4/6 sub-netting, Cisco switch/router commands, and Cisco switch/router configuration. These exercises will be discussed in class in further detail. Many of these labs are hands-on lab exercises.

Each Lab is worth

5 points

## **Extra Credit Lab Exercises (Optional)**

There are extra credit opportunities from the lab manual and online material covering basic/advanced switching and routing concepts/troubleshooting. Printed proof of lab completion is required for credit. These labs will be counted as extra credit and will be combined with your final point score.

Each Extra Credit Lab is worth

2 points (Extra Credit)

## **Class Activity Labs**

The Class Activity Labs, from the lab manual, will be viewed as optional course work. These labs will be covered in class and credit will be based on attendance. The Class Activity Labs will count as Extra Credit at the end of the eight-week session.

**Each Class Activity Labs is worth** 

1 point (Extra Credit)

# **Logbook**

You are required to keep a logbook of notes from the lessons and the lab exercises. You will be required to submit the logbook for evaluation at the end of the eight week session.

Log Book is worth

20 points

#### **Final Computer Exam**

There will be a comprehensive final exam, administered on-line by the CISCO Academy. You must receive a 60% on the exam to proceed to Cisco III. No notes or aids of any kind are allowed during this exam!

**Final Computer Exam is worth** 

50 points

# Final Skills Evaluation

You will be required to take a skill evaluation at the end of the term, demonstrating your skills learned during this 8-week term.

**Final Skills Evaluation is worth** 

50 points

<u>Grading</u> <u>Evaluation</u>

The grading scale will be as follows:	All Chapter Exams total	120
A = 90% and above	All Lab Activities total	160
B = 80 - 89%	Logbook	20
C = 70 - 79%	Final Computer Exam	50
D = 60 - 69%	Final Skills Exam	_50
F = 0 - 59%	Total	400

## **Student Objectives:**

Attend all classes in the training

Read and review all chapters of the Semester 2 Cisco Curriculum

Complete all online chapter exams (on the Cisco assessment server)

Participate in the group labs and complete the lab materials then submit for evaluation

Keep a logbook of notes from the chapters and labs and submit for evaluation

Complete the online Cisco final exam (on the Cisco assessment server)

Complete the Cisco skills final exam

## **Course Schedule**

Oct. 16	Introduction	Oct. 18	Pretest, Chapter 1
	Course objectives		Discussion, Chapter 1 Labs
Oct. 23	Exam 1, Chapter 2	Oct. 25	Exam 2, Chapter 3
	Discussion, Chapter 2 Labs		Discussion, Chapter 3 Labs
Oct. 30	Exam 3, Chapter 4	Nov. 1	Exam 4, Chapter 5
	Discussion		Discussion, Chapter 5 Labs
Nov. 6	Exam 5, Chapter 6	Nov. 8	Exam 6, Chapter 7
	Discussion, Chapter 6 Labs		Discussion, Chapter 7 Labs
Nov. 13	Exam 7, Chapter 8	Nov. 15	Chapter 8
	Discussion, Chapter 8 Labs		Discussion, Chapter 8 Labs
Nov. 20	Exam 8, Chapter 9	Nov. 22	College Closed
	Discussion, Chapter 9 Labs		Happy Thanksgiving
Nov. 27	Exam 9, Chapter 10	Nov. 29	Chapter 10
	Discussion, Chapter 10 Labs		Discussion, Chapter 10 Labs
Dec. 4	Exam 10, Final Exam Prep	Dec. 6	Final Exam Prep
	Discussion		Discussion, Hand-in Material Due
Dec. 11	Final Exams	Dec. 13	Final Exams
	Discussion		Final Grades Due

# **Required Lab Exercises**

	2.1.1.6	3.3.2.2	5.1.2.4	6.2.4.5	7.3.2.4	9.2.3.4	10.1.2.4	10.2.4.4
	2.2.4.11	4.1.1.9	5.1.3.7	6.3.3.7	8.2.4.5	9.3.2.13	10.1.2.5	11.2.2.6
	3.2.2.5	4.1.4.6	5.3.2.4	6.4.2.5	8.3.3.6	9.4.2.7	10.1.4.4	11.2.3.7
Ī	3.2.4.9	4.1.4.7	6.2.2.5	6.5.2.5	9.2.2.7	9.5.2.7	10.2.3.5	11.3.1.5

#### **Extra Credit Lab Exercises**

Any labs not listed in the "Required Lab Exercises" areas above, or that are Class Activity Labs

## **Computer Lab Login Information**

Login: student
Password: student
Domain: EICCD

Address:

#### **Cisco Content Server Login Information**

Login: Password:	assigned login from class assigned password from class
Academy ID:	
User ID:	
Password:	

http://cisco.netacad.net

## **Expectation of Behavior**

Code of Conduct and Plagiarism / Dishonesty Policy: To access the Student Code of Conduct go to: www.eicc.edu chose EICC connect and log in, Student Resources, Student Handbook, Rights and Responsibilities, Code of Conduct

## **General College Information**

**Academic Calendar**: Dates pertaining to the class schedule

https://eicconnect.eicc.edu/academicinformation/acadcalendars/Pages/default.aspx

**Safety:** It may be wise to add information about safety/security that is applicable to your classroom, e.g. Services at the Kahl Educational Building, such as walking a student to their car at night, what to do in the case of an armed intruder (door to be locked from inside), use of class phone by students if necessary, etc.

**E-Bridge access:** Check Grades, Class Schedule, Financial Aid, and Register for Classes:

Go to <a href="https://www.eicc.edu">www.eicc.edu</a> Chose EICC connect and log in. Then chose eBridge, Students, Academic Profile

**FERPA Information:** Scott Community College, in full compliance with the Family Educational Rights and Privacy Act of 1974, shall make educational records available to students upon request. Likewise, in accordance with the law, individually identifiable educational records will not be released to other than authorized individuals without written consent of the student. Students have the right to file complaints with the Family Educational Rights and Privacy Act (FERPA) Office concerning alleged failures by the institution to comply with the act. For more information go to <a href="http://www.eicc.edu">http://www.eicc.edu</a> choose EICC Connect, sign in, choose Student Services, Student Resources, Student Files, then FERPA

**Academic Information** Anyone who feels he or she may need an academic accommodation based on the impact of a documented disability should contact the learning specialist, Jan Weis at 564-441-4027, to arrange an appointment as soon as possible. At the appointment, course format, individual needs, and potential accommodations will be discussed. This service is FREE and confidential.

Military Information: Eastern Iowa Community Colleges seeks to provide a learning environment that is welcoming to all students. Any active or reserve military who would like to discuss transitioning from the military into the academic environment, please contact Rebecca Geiken. She is available to assist all veterans and their families in accessing programs and services within the college and community to enhance the educational experience. We have a Student Veteran's Organization and a Veteran Center in room 1019 on the Belmont campus. Rebecca Geiken, Military and Veteran Student Affairs Facilitator, rgeiken@eicc.edu or by phone at 563-441-4060.

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