

NET 398 Networking III – Spring 2018 (1st 8 Weeks)

Instructor:	Sam Samara, CCNA, CCAI EICC Urban Campus – West Wing 101 W 3rd St Davenport IA 52801
Class:	Course # 191047 Urban Campus – West Wing Room UCW227
Day of Class:	Monday and Wednesday 5:00 p.m. to 9:15 p.m. 01/17/2018 – 3/7/2018
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Office Hours:	Arranged with students individually as needed
Important Dates:	Last date to drop as a withdraw – March 2 nd Mid-term / End of 8 weeks – March 9 th

Course Description:

This is the third 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 larger more complex network, along with router and a switch configuration for advanced functionality.
- Advanced configuration of switching technologies such as VLANs, VLAN Trunking Protocol (VTP), Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), Per VLAN Spanning Tree Protocol (PVSTP), and 802.1q.
- Advanced configuration of routing technologies such as RIPv1, RIPv2, single-area and multi-area OSPF, EIGRP, 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. Although not required, 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 your responsibility 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 227 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 Scaling Networks v6 Lab & Study Guide by: Cisco Press Available at SCC bookstore
ISBN-13: 978-1-58713-433-3
Personal Headphones: For use with audio portion of curriculum
A bound notebook for class notes (Logbook)

Optional Materials

CCNA Scaling Networks v6 Companion Guide by: Cisco Press Available at SCC bookstore
ISBN-13: 978-1-58713-434-0
CCNA Scaling Networks v6 Course Booklet by: Cisco Press Available at SCC bookstore
ISBN-13: 978-1-58713-430-2
CCNA Portable Command Guide 4th Edition by: Cisco Press Available outside of SCC
ISBN-13: 978-1-58720-588-0
CCNA Route and Switch Study Guide, (100-105, 200-105,200-125) by Todd Lammle Available outside of SCC
ISBN 978-1-11928-828-2

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

13 points

Labs Exercises

There will be 20 graded lab exercises, from the lab manual, covering the areas of LAN/VLAN design, configuration, and maintenance, and routing protocols. These exercises will be discussed in class in further detail. Many of these labs are hands-on lab exercises.

Each Lab is worth

8 points

Extra Credit Lab Exercises (Optional)

There are extra credit opportunities, from the lab manual, covering advanced troubleshooting, research of network media/network devices, comprehensive subjects and challenging subjects. These labs will be counted as extra credit and will be combined with your final point score.

Each 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

10 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 IV. 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

Grading

The grading scale will be as follows:

- A = 90% and above
- B = 80 – 89%
- C = 70 – 79%
- D = 60 – 69%
- F = 0 – 59%

Evaluation

All Chapter Exams total	130
All Lab Activities total	160
Logbook	10
Final Computer Exam	50
Final Skills Exam	<u>50</u>
Total	400

Student Objectives:

Attend all classes in the training

Read and review all chapters of the Semester 3 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

Jan. 15	College Closed Martin Luther King Day	Jan. 17	Introduction Course objectives
Jan. 22	Pretest, Module 1 Discussion, Module 1 Labs	Jan. 24	Exam 1, Module 2 Discussion, Module 2 Labs
Jan. 29	Exam 2, Module 3 Discussion, Module 3 Labs	Jan. 31	Exam 3, Module 4 Discussion Module 4 Labs
Feb. 5	Exam 4, Module 5 Discussion, Module 5 Labs	Feb. 7	Exam 5, Module 5 Discussion, Module 5 Labs
Feb. 12	Exam 5, Module 6 Discussion, Module 6 Labs	Feb. 14	Exam 6, Module 6 Discussion, Module 6 Labs
Feb. 19	Exam 6, Module 7 Discussion, Module 7 Labs	Feb. 21	Exam 7, Module 8 Discussion, Module 8 Labs
Feb. 26	Exam 8, Module 9 Discussion	Feb. 28	Exam 9, Final Exam Prep Discussion, Hand-in Material Due
Mar. 5	Skills Final Exam Discussion	Mar. 7	Computer Final Exam Final Grades Due

Required Lab Exercises

	2.1.4.5	4.2.2.4	7.2.3.6	9.2.2.9
	2.2.2.5	4.4.3.4	7.2.3.7	10.1.1.13
	3.1.2.12	6.2.2.5	8.2.4.5	10.1.3.5
	3.3.2.3	6.4.3.5	8.3.3.6	10.2.3.3
	4.2.1.4	7.1.3.6	9.2.2.8	10.2.3.4

Extra Credit Lab Exercises

Any labs not listed in the “Required Lab Exercises” areas above

Cisco Networking Login Information Sheet

Computer Lab Login Information

Login: student
Password: student
Domain: EICCD

Cisco Content Server Login Information

Address: <http://www.netacad.com>
Login: assigned login from class
Password: assigned password from class

Academy ID: _____

User ID: _____

Password: _____

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>

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 <http://www.eicc.edu> 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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