CASPER COLLEGE COURSE SYLLABUS

CSCO 2020-01: Advanced Internetworking II

Semester/Year: Spring, 2015

Lecture Hours: 4          Lab Hours: 0          Credit Hours: 4

Class Time: 7:00 pm – 8:45 pm  Days: T, Th  Room: GW: 208

Instructor’s Name: Kevin J. McDermott

Instructor's Contact Information:  Office: PS 212  Email: kmcdermott@caspercollege.edu
Office Phone: 268-2704

Office Hours:
Monday: 9:30 am – 10:00 am & 12:00 pm – 1:00 pm
Tuesday: 9:30 am – 10:00 am & 12:00 pm – 1:00 pm
Wednesday: 9:30 am – 10:00 am & 12:00 pm – 1:00 pm
Thursday: 9:30 am – 10:00 am & 12:00 pm – 1:00 pm
Friday: 9:00 am – 12:00 pm by appointment only

Course Description: This course is the third and fourth semesters of a four semester CCNA (Cisco Certified Network Associate) certification based training program. This class focuses on the application of advanced routing protocols such as OSPF and EIGRP, advanced IP addressing, LAN switching and VLAN design, and the configuration of wide area network access using the point-to-point protocol (PPP), ISDN, and frame relay.

Statement of Prerequisites: CSCO 2000 & CSCO 2010

Goal: With appropriate study and preparation students will be able to configure Cisco switches for LAN switching, including VLANs and the spanning tree protocol, as well as configure Cisco routers for WAN connectivity.

Outcomes: Students should be able to:

1. Describe the role of routing and switching in internetworking.
2. Define the role and specific characteristics of the most common interior gateway routing protocols.
3. Create and implement a basic router configuration.
4. Examine router and switch configuration and execute basic troubleshooting procedures.
5. Design and implement an effective and efficient IP addressing scheme using VLSM and CIDR.
6. Explain the concept of VLANs, including the basic configuration.

Methodology: This course employs a combination of lectures, demonstrations, discussions and hands-on labs. You are expected to thoroughly read the corresponding chapter in the text before the lectures. Quizzes and tests are comprehensive and include multiple question formats. Make-up tests may be permitted with prior arrangement with the instructor but may be denied at the discretion of the instructor for such things as poor homework or attendance record.

Revised 7/12/2012
My best suggestions for succeeding in this class are:

1. Attend class.
2. Read the chapter BEFORE class
3. Complete the homework.
4. Ask questions

**Evaluation Criteria:** Your final grade in the course will be based on the following:
Homework – 15%, Quizzes (best 4 of 5) – 20%, Lab Participation – 10%, 2 Midterm Exams – 30% (15% each), Final Exam – 25%.

A: 90% - 100%
B: 80% - 89%
C: 70% - 79%
D: 60% - 69%
F: less 60%

Please let me know **ahead of time** if you are unable to make it to class for an exam. These need to be made up **before** the test date or at the latest before the next class period.

**Required Text, Readings, and Materials:** Accessing the WAN, Vachon and Graziani, and LAN Switching and Wireless, Lewis.

**Last Date to Change to Audit Status or to Withdraw with a W Grade:** The last date to withdraw or switch to audit is Friday, April 16, 2015.

**Student Rights and Responsibilities:** Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

**Chain of Command:** If you have any problems with this class, you should first contact the instructor to attempt to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take the matter through the appropriate chain of command starting with the Department Head – Debra Swedberg, the Dean – Grant Wilson, and lastly the Vice President for Academic Affairs – Tim Wright.

**Academic Dishonesty:** (Cheating & Plagiarism) Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct for more information on this topic.

**Official Means of Communication:** Casper College faculty and staff will employ the student’s assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly.

**ADA Accommodations Policy:** If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately after class, or during my office hours. To request academic accommodations, students must first consult with the college’s Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, bheuer@caspercollege.edu. The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations.