

**Syllabus For
Clayton State University
College of Information and Mathematical Science**

CNET 3210

Advanced Routing
Fall 2009 (rev. 08/14/2009)

INSTRUCTOR CONTACT INFORMATION

Scheduled Class Time: Thursday 6:30 pm – 9:15 pm

Name: John Burningham, D.I.T.

Office: U-324

E-mail: JohnBurningham@Clayton.edu

(when emailing me, always include your course number and your full name).

URL: <http://cims.clayton.edu/jburningham/>

Phone: (678) 466-4635 (please leave your full name, course number, and a callback number if you leave voicemail).

Only call me between 9:00am-11:59pm, as calls to my office are transferred to my cellphone.

Office Hours: TBA (and also by appointment).

PREREQUISITES/COREQUISITES

Prerequisite(s): *Cisco CCNA Certification or Permission of Instructor.*

Corequisite(s): *None.*

COURSE DESCRIPTION

Students will learn how to implement enterprise class WANs with emphasis on utilizing OSPF, IS-IS, BGP, and policy -based routing.

NOTE: It is the student's responsibility to drop this course during the drop/add period if he or she has not properly satisfied the prerequisite/corequisite requirements. If the student has not satisfied the prerequisite/corequisite requirements and does not drop the course during the drop/add period, the instructor will advise the registrar's office to drop the student from the course. The student will receive a grade of "W" and no refund will be given. The student alone will be responsible for any loss of funds or financial aid that may result.

CCNA Certification NOTE: The prerequisite for this course is CCNA Certification. If you were given permission by the instructor to enroll without the CCNA certification, you are required to pass the CCNA Certification as a requirement for passing this course with a grade of "C" or higher. The CCNA is a prerequisite for the CCNP certification. It is strongly advised to drop this course before mid-term if you have NOT completed this requirement.

NUMBER OF REQUIRED ON-CAMPUS MEETINGS

The course meets weekly on Thursday evenings 6:30 pm – 9:15 pm.

UNIVERSITY ATTENDANCE POLICY

Students are expected to attend and participate in every class meeting. Instructors establish specific policies relating to absences in their courses and communicate these policies to the students through the course syllabi. Individual instructors, based upon the nature of the course, determine what effect excused and unexcused absences have in determining grades and upon students' ability to remain enrolled in their courses. The university reserves the right to determine that excessive absences, whether justified or not, are sufficient cause for institutional withdrawals or failing grades.

COURSE OBJECTIVES AND/OR LEARNING OUTCOMES

Upon the completion of the course, students should be able to perform tasks related to the following:

- Scalable Internetworks
- Routing Protocols
 - EIGRP
 - OSPF
 - IS-IS
 - BGP
- Routing Optimization
- IP Multicast
- IPv6 Introduction

TECHNOLOGY REQUIREMENTS

University policy states each CSU student is required to have ready access throughout the semester to a notebook computer that meets faculty-approved hardware and software requirements for the student's academic program (as part of the registration process, students agree to this). See ITP Choice at <http://itpchoice.clayton.edu> for full details of this policy. Your computer should meet the given minimum specifications for the Advanced level listed at <http://itpchoice.clayton.edu>.

This particular class has the following technology requirements:

1. You must have broadband access to the Internet, either through the local area network on campus, or through an Internet Service Provider (ISP) of your choice (the costs for the ISP are your responsibility). No excuses will be accepted for inability to access the Internet.
2. You must activate your CSU Student E-mail account. For directions on activation, go to <http://thehub.clayton.edu/> and click on Guides.

COMPUTER COMPETENCIES

You need to be computer literate with Windows XP, including but not limited to using eMail and browsing the web.

COURSE REQUIREMENTS

1. Attendance, including listening and actively participating in classroom and laboratory activities.
2. Reading assigned material
3. Homework/Laboratory Assignments
4. On-line Module and final exams.
5. Completing Cisco and CSU course/instructor evaluations.
6. Cisco Certification Exam(s).

ON-LINE ASSESSMENTS (Examinations)

The module on-line assessments (exams) will be through November. You are allowed one attempt on the individual module assessments. Once you start an assessment (by selecting it on the assessment screen), it is important that you complete it within the specified time limit, if you get disconnected, you can log back in and continue; if you do not submit the assessment for grading within the specified time limit you may not be able to retake it without the instructor resetting your account. If you need an exam reset, you **MUST** contact the instructor by telephone or in-person, do **NOT** use email!

Since the on-line assessments are done outside of class time, they are more of a learning activity than a traditional examination. If you don't know the answer to a question, look it up, but you will **NOT** have time to look up every question so you must be prepared when you start the assessment! Your scores and feedback are available to you within seconds after submitting your answers for grading, after the due date you will be able to review the specific questions you missed. If you disagree with an answer, please let the instructor know the wording of the question (the question number is not useful as questions are delivered randomly).

EVALUATION

Module Exams	28%
Final Exam	12%
Labs	20% (Listed as Custom Scores in grade book)
(2) Case Studies	10%
Certification Exam	30% (Listed as Skills in grade book)

Your final numerical grade will be converted to a letter grade based upon the following distribution:

A	90-100
B	80-89.99
C	70-79.99 (Note: you MUST have a valid CCNA certification to receive a grade of "C" or higher)
D	60-69.99 (Note: a course grade of C or better is required for all CNET courses)
F	0-59.99

CERTIFICATION EXAM

The Cisco BSCI (642-901) Exam [http://www.cisco.com/web/learning/le3/current_exams/642-901.html] is a requirement for this course. Your certification score will be divided by 10 for entry into the grade book. Your exam results are due on or before July 28th. If you have taken the exam by the due date and **NOT** passed it, you may retake the exam and submit result on or before July 30th; if you **PASS** the certification exam you will receive a course grade of "A".

MID-TERM PROGRESS REPORT:

The mid-term grade in this course, which will be issued October 7th will reflect ~24% of the entire course grade. Based on this grade, students may choose to withdraw from the course and receive a grade of "W." Students pursuing this option must fill out an official withdrawal form, available in the Office of the Registrar or online at <http://adminsivices.clayton.edu/registrar/> by mid-term, which occurs on October 9th.

CLASS AND LABORATORY EXPECTATIONS

1. Attendance is **MANDATORY!** If you are not in class, you will have problems passing the course.
2. The laboratory will be available Monday-Thursday 4:00 pm – 6:30 pm. If you want access earlier in the day please contact the instructor.
3. Students must abide by policies in the University Catalog, Student Handbook, and if applicable, program handbook. Academic misconduct will not be tolerated. I enforce a zero tolerance policy for academic dishonesty (including but not limited to cheating and plagiarism).
4. Students should read and understand the Basic Student Responsibilities policy posted at <http://adminsivices.clayton.edu/registrar/forms/BasicUndergraduateStudentResponsibilities.doc> and listed in the catalog under Academic Policies. These responsibilities should be considered part of this class syllabus and should be adhered to.
5. A student who stops attending class will receive a grade of "F". To receive a "W" grade, the student must officially withdraw from the course by October 9th.

TEXTBOOK AND OTHER MATERIALS NEEDED

[CCNP Quick Reference](#) (Note: This covers all four CCNP Courses)

By Dennis Donohue, Brent Stewart, Jerold Swan

ISBN : 1-58720-236-0

[CCNP BSCI Portable Command Guide](#)

By Scott Empson

ISBN : 1-58720-189-5

Optional : This include the Command Guides for all four CCNP courses, it is cheaper to buy the set than individual books.

[CCNP Portable Command Guide Library](#)

By Scott Empson, Hans Roth

ISBN : 1-58720-187-9

Cisco Academy Web Site: <http://cisco.netacad.net>

NetLab: <http://netlab.clayton.edu>

Test Prep Site: <http://www.how2pass.com> <http://www.pass4sure.com> <http://www.measureup.com>

STUDENTS WITH DISABILITIES

Students with disabilities who require accommodations need to register with Disability Services. Contact them at DisabilityServices@clayton.edu or visit their office in the Student Center Room 255. If you do qualify for services, please give your letter of accommodations to your instructor as soon as possible.

FINANCIAL AID

Financial Aid, including grants, scholarships and loans, can only be used to cover the costs of courses that are required for your currently declared major. If you are declared as a certificate major, your financial aid cannot be used for courses in an AAS or BAS major (or any major other than what is declared). It is your responsibility to contact the Office of Financial Aid to request an adjustment to your award if you register for courses that cannot be covered. If you do not do so, you will eventually be billed for any financial aid that you have received for courses that were not required for your declared major. It is also your responsibility to re-apply for financial aid each academic year; applications become available January of each year for the following fall semester. If you are unsure about your major, go to the Duck to see how it is listed. If you are unsure about what is covered under financial aid, please call them or make an appointment with someone in financial aid.

APPLYING FOR GRADUATION

For a student to graduate from a program, he/she must apply to graduate by the dates indicated below. To obtain an application for graduation, see the secretary in T-211 or contact your advisor. This form must be completed for each certificate and/or degree in which the student plans to graduate. For students graduating at the end of Fall Semester, the graduation application is due to the registrar's office no later than June 1. For students graduating at the end of Spring Semester, the graduation application is due to the registrar's office no later than September 15. For students graduating at the end of Summer Semester, the graduation application is due to the registrar's office no later than January 30.

CENTER FOR ACADEMIC SUCCESS

Students are encouraged to visit Clayton State's Center for Academic Success (CAS). CAS offers a variety of personalized academic services to all Clayton State University students, including staff and peer tutoring in a variety of subjects and multimedia instruction. CAS tutors not only can help students understand the content of their classes, but also can help them develop the skills and strategies necessary to continue learning throughout their lifetimes. For further information visit the CAS website at <http://admins-services.clayton.edu/cas/>.

CNET 3210

Fall 2009

Class Schedule

Note: Lectures are as indicated below
(The instructor reserves the right to revise the schedule)

Aug 20	Course Intro, general overview (Lecture: 7:15pm – 9:15pm) Module 1 – Scalable Network Design Module 2 – EIGRP
Aug 27	Open Lab
Sept 3	Open Lab
Sept 10	Module 3 – OSPF
Sept 17	Open Lab
Sept 24	Open Lab
Oct 1	Module 4 – Integrated IS-IS
Oct 8	Open Lab
Oct 15	Open Lab
Oct 22	Module 5 – Router Optimization Module 6 – BGP
Oct 29	Open Lab
Nov 5	Module 7 – IP Multicast Module 8 – IPv6
Nov 12	Open Lab
Nov 19	Open Lab
Nov 20-29	On-line Final Exam (Available 4:00pm – 11:59pm)
Dec 3	Open Lab
Dec 10	Certification Exam Due