
SYLLABUS

CNIT 201C-DE1 Introduction to Cisco Networks

Course Description

This course provides the architecture, structure, functions, components, and models of the Internet and other computer networks. Use of the OSI and TCP layered models to examine protocols and services. IP addressing and subnetting. Fundamentals of Ethernet concepts, media, and operations. First course of the Cisco Networking Academy Exploration series preparing for the CCNA Certification

Prerequisites/Co-requisites

ADVISE: CNIT 100

Instructor Information

Richard Wu

E-mail: rwu@ccsf.edu (Preferred Methods of Contact)

Phone: (415) 239-3594

Office Hours: Tuesday (6:30 pm to 8:30 pm), Thursday (6:30 pm to 8:30 pm) or by scheduled appointment only

Textbook(s)

- Mark A. Dye, (2013). *Introduction to Networks Companion Guide*
Cisco Press
ISBN-10: 1587133164/ ISBN-13: 978-1587133169

Learning Outcomes

Upon completion of this course a student will be able to:

- Describe the devices and services used to support communications in data networks and the Internet.
- Describe the role of protocol layers in data networks.
- 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.

Course Requirements

- Discussion Weekly discussions
- Chapter Exams Multiple choice, true/false and fill in the blank given through Cisco Web Portal.
- Labs Weekly Cisco labs
- Final Exam Multiple choice, true/false and fill in the blank given through Cisco Web Portal.

Grading Policy:

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|-------------------|------------|
| Chapter Exams | 25% |
| Final Exam | 15% |
| Labs | 45% |
| <u>Discussion</u> | <u>15%</u> |
| TOTAL | 100% |

Mid-term and final letter grades determined:

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|----------------|
| A = 90% - 100% |
| B = 80% - 89% |
| C = 70% - 79% |
| D = 60% - 69% |
| F = Below 60% |

CCSF Policy Reminders

CCSF College policies can be found in the CCSF Academic Catalog. Please review the reminders below and, if needed, refer to the Academic Catalog for complete policy details.

Communication Policy:

I encourage you to schedule a meeting with me if you think you need to talk beyond what we can accomplish in class. You may use your meeting time with me to clear up any problems you are having with the lecture or reading materials, class assignments or attendance; to discuss your study habits; or, to talk about any circumstances affecting your work in this class. If your personal life or job are interfering with your coursework in this class please let me know immediately so I can make some suggestions and try to work out a viable solution with you. Email me (Preferred Contact Methods) or see me after class to set up a time to meet.

Email is the best way to get in touch with me. I will typically reply to your email within one day of receiving it. Please do not leave voice mail for me because the wait time for a return call can be longer.

Dropping Policy

College No-Show Policy: If a student has officially registered for a class but has not attended nor dropped the class by census week, the instructor must drop the student as a No-Show.

This means that if you have not done any work for the class or have not contacted me by the beginning of the 3rd week of class, you will be removed from the class.

College Drop and Withdraw Policy: A student cannot be retroactively dropped if the drop deadline has passed. Instructors may withdraw students at any time during the semester when the instructor determines the student is no longer participating, up until the last day that is posted to drop with a "W". Non-participation pertains to the following: 1) The student has stopped attending; 2) The instructor knows that the student will not return or has been absent so many days that he or she could not make up the work; 3) The instructor would not reinstate the student if he or she did return. If a student's name shows up on the final grade list for a class, the instructor is obligated to provide the student with a grade. It will not be possible to withdraw students on the final grade roster.

This means that if you do no work for the class and do not contact me for two weeks, I will contact you to see if you wish to remain in the class. If I do not hear back from you within one week, I will remove you from the class.

Policies on Copyright while using CCSF facilities

CCSF Guidelines for lab use: Software in use in the lab and printed resource materials are copyrighted with all rights reserved except when explicitly described as public domain. Under copyright laws, these items may not be copied, photo-copied, reproduced or reduced to any electronic medium, in whole or in part. Any violation or attempt to violate copyright laws may result in disciplinary action.

Instructor's Classroom Policies

Hacking

No student may intentionally, either locally or remotely, access the computer used by any other student without that student's or the instructor's permission. Any student violating this rule will be withdrawn from the course. There will be NO exceptions to this rule.

Participation

Participation grades are based on a variety of assessments including review questions, oral or written participation quizzes, professional behavior, and other events at the instructor's discretion. Participation grades are posted weekly.

Course Schedule

The course schedule is handed out the first day of the course. This is a flexible document. Students should expect the schedule to be modified during the course depending upon the progress we make in individual modules and are responsible for being aware of the course schedule in its most current form. Students will be notified of any changes to the course schedule.

Textbook

Be sure to check the course schedule for exact pages required and dates by which the reading is due. Each student is expected to read the assigned chapters BEFORE the day(s) in which the chapter's topic will be discussed in class. Students are responsible for all information covered in the assigned reading and should take note that the limited classroom

time for lectures makes it impossible for the instructor to cover in class every concept covered in the assigned reading.

Focus

Please be prepared to focus on class material during class sessions. Computers may not be used for non-course activities during class.

Late Assignments

All online assignments have a due date deadline. This course is not self-paced! Because I want our class to be fair to all students, I have a late policy in which, if you have no documented excuse, a significant number of points are removed from your work. In the first 24 late hours your grade is lowered by 25%. In the second 24 late hours your grade is lowered by another 25%, thus lowering your score by 50%. After 48 hours, your score becomes 0 (zero). Yikes! That means an A becomes an F! Try to be fair and smart: complete your work on time. Even smarter? Complete your assignments a day or two in advance in case you have technical difficulties or other unexpected trouble!

If you miss a deadline to complete your assignments but have a documented excuse, you may not be penalized for lateness. First, contact me as soon as possible, preferably before the assignment is due if you know you will be late. Documentation of the reason for lateness is required to avoid penalties. The most acceptable documentation includes a dated, signed form from a professional or institution (e.g., campus health center, doctor, court, cops, etc). I have also accepted documentation such as a dated receipt for medication bought for an illness.

Academic Integrity

True learning can take place only when students do their own work honestly, without copying from other students or other sources. CCSF enforces the highest standards of academic integrity, both to preserve the value of the education offered and to prepare students to become productive members of the workforce and society. At Heald, it is considered a breach of academic honesty for students to employ any form of deception in the completion of academic work, including but not limited to:

- copying work, ideas, or projects from any other person or media
- allowing another person to copy or borrow original work in any form
- allowing another person to copy answers on a quiz or test or to communicate with another person during a quiz or a test
- representing the work of another team member as one's own
- stopping or delaying another student in the completion of any work
- plagiarism in any form, including failing to give credit to the source of thoughts, words, ideas, or work from any other person, printed material, or website

When a violation of this policy occurs, disciplinary action will be taken. Subject to the severity of the violation or repeated/multiple occurrences, academic dishonesty may result in an "F" grade for an assignment, project, assessment, or the course itself, or may result in dismissal from the College. All violations of the Academic Integrity Policy are documented and made a permanent part of a student's record. Further information is available from the Academic Affairs Department.

DSPS

Students who need academic accommodations should request them from the Disabled Students Programs and Services (DSPS) located in the Rosenberg Library, Room 323 on the Ocean Campus. Telephone: 415-452-5481 (V) 415-452-5451 (TDD). DSPS is the campus office responsible for verifying disability-related need for academic accommodations, assessing that need, and for planning accommodations in cooperation with students and instructors as needed and consistent with course requirements.

Changes to the Syllabus

This syllabus is subject to change throughout the semester due to emergent student needs, important new learning opportunities, or other unforeseen situations. In the event a change must be made, the instructor will notify the students as soon as practically possible, and provide an updated syllabus on the course website.