



# CISN 340 Data Communication and Networking Fundamentals

## Spring 2011

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Associate, Security+, N<sup>+</sup>, A<sup>+</sup>, inet<sup>+</sup>  
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Office hours Mon/Wed 8:50PM to 9:50PM in Room B229 or B219  
Tue 8:50PM to 9:50PM in Room B229 or B103  
Thurs 6PM to 7PM online

**Course meeting times:** 5pm to 6:50pm Mon/Wed Afternoon Class  
7pm to 8:50pm Mon/Wed Evening Class

**Units:** 3 Credit units

**Advisory:** CISC 320 and one of CISC 300 or CISC 310 with grades of "C" or better.


**Course Description:** This course is designed to introduce students to data communication and networking fundamentals. The course surveys data communication hardware and software components and basic networking concepts. Topics covered include data communication, the OSI Model, IP addressing, routing concepts, LAN media, and network management and analysis. This is the first course in preparation for CISCO CCNA certification examination. SCC is a certified CISCO Networking Academy and all courses are taught by CISCO Certified Academy Instructors (CCAI). This course may be taken four times for credit for re certification due to industry standards. Formerly CISN 140.

### *Learning Objectives:*

- communicate between local and remote computers using TCP/IP protocol.
- describe the equipment and use, terminology, and procedures required for data communication and Internetworking.
- describe the hardware and software used in popular networks. .
- differentiate between various network architectures and select appropriate network structure for various applications.
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## What you need to take this course:

1. You will need a computer with need **reliable** Internet access. The course materials and quizzes are only accessible online by logging in to <http://cisco.netacad.net> – using your student Cisco identification information that you will receive from your instructor. The Cisco Networking Academy website also has a grade book showing the scores you have for each item. If you do not own a computer with Internet access, the computer labs on campus will be open during this semester. Here is a link to the SCC Computer lab that shows times, and days it is available:  
[http://busdiv.scc.losrios.edu/stre\\_lab.html](http://busdiv.scc.losrios.edu/stre_lab.html)

**Moodle** : **This course does NOT use the Desire2Learn online system.** In this course a course management tool called Moodle will be available. The <http://someprofs.org> web site will be where you can have access to study guides, and other material that I will post which will help you in the class, and preparation for the CCNA certification. The course uses a weekly format to make it simple to see what readings, and assignments are due. **Currently Internet Explorer is giving some students trouble with the course website. I recommend using Firefox which is free. The first page on the SomeProfs.org website before you log in has links to download Firefox. Students have also been using Safari, and Google Chrome to access the course website.** The additional course materials are only accessible online by logging in to <http://www.someprofs.org> using your student identification number without using a “W” is required. Students should access the course a minimum of 4 days per week.

2. You must have a working e-mail account. If not already done, **activate your Los Rios iMail** account – you should already have one assigned, and will need it for this course. This is free to currently enrolled students at SCC. Go here to activate it: <https://imail.losrios.edu/> you can have your iMail account forward email to your current email account. To do this **click on Preferences** located on the left-hand side of the screen, **then click on Forwarding your iMail** to set this up.

Please note:

- Students will receive course information from emails sent through the iMail system.
  - Because of e-mail viruses, Prof. Anderson does not accept e-mail from unknown sources. Therefore, all e-mail messages must include the subject **CISN 340** and **your full name** typed in the message, or the e-mail may be ignored. Example: **CISN 340 Jill Jones**.
3. **Additional Materials:** USB thumb drive. **Network cabling items which are available from the bookstore or you can bring in your own materials (The items are RJ45 connectors and 2 lengths of category 5 network cable the cable lengths should be 5 to 6 ft long) I am usually able to find some cable for students to save them money, but you will need to purchase RJ45 Connectors. RJ45 connectors can be found at Fry's, Lowes, Home Depot, Radio Shack and other stores as well.**
  4. **Required Text:** You must purchase the **Lab Book**. Networking Fundamentals CCNA Exploration Labs and Study Guide Cisco Press, ISBN-13: 978-1-158713-203-2. **All students are required to purchase and complete the lab book for this class.** Lab books will be collected and graded by the instructor at the end of the 7<sup>th</sup> week. The lab books will be returned to students at the Final exam in week 8.

**Optional Text :** (This information is also available on the Cisco Academy Website which students have free access to if you would like to save some money) Networking Fundamentals CCNA Exploration Companion Guide ISBN-13: 978-1-158713-208-7

**Attendance** is essential to your success in this course. As this is a short-term course, we move quickly from one topic to the next. There are some exceptions given in extenuating circumstances. Class sessions are devoted to instruction of new material and review of previous topics. You are responsible for material covered in lectures, assignments, handouts, classroom activities and any changes in assignments. You are expected to take notes in class. You are responsible for all material and instruction missed due to absences. You will need to get any missed material from another student in class. Please do not email asking to have a lecture emailed to you. Again the best way to find out what was done in a missed class is to ask another student.

## Student Code of Conduct

- Students are required to conduct themselves in a courteous, respectful and professional manner when communicating with other students, lab personnel, instructional aides, and professors. This includes all E-mail communications. The Student Code of Conduct must be followed by all students, for more information click on this link [SCC Student Code of Conduct](#).

Academic Honesty Policy: **Students are required to do their own work on assignments and to work alone on exams. Examples, and the consequences, of cheating are given below. Please refer to the *Student Code of Conduct* in the *Sacramento City College Student Guide* for additional examples and information. Here is a link to the student code of conduct [SCC Student Code of Conduct](#).**

### **Academic Honesty includes, but is not limited to:**

- Obtaining answers from another student during an exam (in any form and with or without his/her knowledge).
- Providing answers to another student during an exam (in any form).
- Using material during an exam that is not allowed.
- Copying of quiz or exam questions.
- Copying of Cisco Copyrighted materials
- Not securing assignment information where another student has access to it.
- Plagiarism
- Copying – transmitting or receiving answers from others.
- Duplicate printing of assignments in any form (electronic, E-mail, paper, etc.).
- Having or using notes, formulas or other information in a programmable calculator or other electronic device without explicit teacher review and permission.
- Having or using a communication device such as a cell phone, pager, PDA or electronic translator to send or receive information.
- Taking an exam for another student, or permitting someone else to take a test for you.
- Asking another to give you improper assistance, including offering money, favors or other benefits.
- Asking for or accepting money or any other benefit in return for giving another improper assistance.
- Providing or receiving information about all or part of an exam, including answers (e.g., telling someone in a subsequent period what was on your exam, or being told this information).
- Having or using a “cheat sheet” (a piece of paper with answers, formulas, information, or notes of any kind) that is not specifically authorized by the teacher.
- Working together on a take-home exam, unless specifically authorized by the teacher.
- Gaining or providing unauthorized access to examination materials.

**Consequences of Cheating:** If cheating is identified, all individuals involved will receive zero points for the assignment/quiz/exam. All students involved in cheating will receive a grade of zero on any work in which cheating occurs. The matter will be referred to the Business Division Dean and Campus Discipline Officer for appropriate action.

**Additional Standards of Conduct:** Students shall comply with the following standards of conduct while in the Classroom and Labs:

- No food or drinks are allowed at desks. All eating or drinking must be done outside the classroom and labs.
- No typing, talking or printing while the instructor is lecturing or communicating lab instructions. Please be courteous to your fellow students and allow them to concentrate on the material being presented.
- Students are expected to conduct themselves in a courteous and respectful manner at all times when communicating with other students, the Instructor or lab personnel.
- Please be attentive during lectures and while receiving instructions in lab.

Any flagrant violations of any of these standards of conduct will result in the student being recommended to the Division Dean and/or the Campus Disciplinary Officer.

**Class Drop Policy:** In the event, a student decides to drop the class it is the student's responsibility to notify and complete all the necessary documentation with the admissions and records office. Students may be dropped for non-attendance in accordance with the Sacramento City College campus policy: "Students are expected to attend all sessions of classes in which they are enrolled. A student having excessive absences may be dropped from any course by the instructor any time during the semester. Excessive absences are defined as 6% of the total hours of class time." Generally this means three missed classes.(See the catalog for additional information.) DO NOT assume that the instructor will automatically drop you off the class roster if you stop attending -- it is the student's sole responsibility to officially drop classes. Students who stop attending the class after the last date to withdraw will receive a grade of "F".

**Learning Accommodations:** If you are a student with a learning disability, a physical disability, or other special needs, please let me know as soon as possible if you need special accommodations. These discussions are best handled during my office hours or by appointment. All needs which have been verified through the disability centers on campus will be accommodated.

**Changes to Syllabus:** As necessary, I may make changes to this syllabus to improve the class. I will inform the class of any changes.

**Final Exam:** There will be a comprehensive final exam for this class. This exam will include all material covered in the class. There will be a comprehensive review for the final.

**The final grade in this class will be based on the following**

| <b>Requirement</b>   | <b>Percent of Grade</b> | <b>Comments</b>  |
|----------------------|-------------------------|--|
| Lab Manual           | 25 %                    | Lab data and details   |
| Online Chapter Exams | 25 %                    | Using the Cisco Assessment Server  |
| Online Final Exam    | 25 %                    | Using the Cisco Assessment Server Students must take the Final to pass the course                                    |
| Skill-Based Exam     | 25 %                    | Rubric to be distributed prior to Skill-Based Exam. Students must complete the Skills-Based Exam to pass the course. |
| <b>Total Points</b>  | <b><u>100 %</u></b>     |  |