

Syllabus

Course Information

- Semester and Year: Fall 2026
- Course Title: Introduction to Networks
- Course Prefix and Number: CNT140AB
- Section Number: 18517
- Credit Hours: 4.0
- Start Date: 9/14/2026
- End Date: 12/18/2026
- Room Number: CM448
- Meeting Days: Monday
- Meeting Times: 6:00pm – 8:30pm
- Class Format: In-Person

Instructor Information

- Instructor: Cristobal Romero
- Email: cristobal.romero@scottsdalecc.edu
- Phone: (480) 423-6262
- Office Location: CM418, [Virtual Office](#)
- Office Hours: [See Faculty Page](#)

Course Description

Focus on the architecture, structure, functions, components, and models of the Internet and other computer networks. Principles and structure of IP addressing, and the fundamentals of Ethernet concepts, media, and operations are introduced. Students will build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. Preparation for Cisco certification examination.

Prerequisites and/or Corequisites

- None

Course Competencies

1. Describe the devices and services used to support communications in data networks and the Internet. (I, II, IV, V, VI, XI)

2. Describe the role of protocol layers in data networks. (III, IV, V, VI, VII, X)
3. Describe the importance of addressing and naming schemes at various layers of data networks in IPv4 and IPv6 environments. (II, IV, V, VIII, IX)
4. Design subnet masks and addresses to fulfill given requirements in IPv4 and IPv6 networks. (VIII, IX)
5. Explain fundamental Ethernet concepts such as media, services, and operations. (V)
6. Build a simple Ethernet network using routers and switches. (III, IV, V, VI, VIII, IX)
7. Use Cisco command-line interface (CLI) commands to perform basic router and switch configurations. (II, V, VI, XI)
8. Utilize common network utilities to verify small network operations and analyze data traffic. (VIII, XI)

Texts and Course Materials

Your instruction content will be accessed on the Cisco Networking Academy website. The URL is <https://www.netacad.com>.

Students may purchase an *optional* companion guide:

Introduction to Networks Companion Guide (CCNAv7)

ISBN Book: 9780136633662, **eBook:** 9780136633549

Course Policies

The following are policies specific to this course. Students are also responsible for the college policies included on the [Student Regulations](#) page of the Maricopa Community College District website.

The course format for this course is Hybrid In-Person. There will be in-person meetings on **Mondays** from **6:00PM – 8:30PM** in **CM448**. These sessions are mandatory. There will also be additional activities for the student to complete online (on your time). In-person meetings will not be recorded or streamed live.

Academic Conduct

In addition to the general college Academic Honesty policy stated in the Canvas course under the Course and College Policies section, the following additional policies apply to this course:

The highest standards of academic integrity are expected of all students. The failure of any student to meet these standards may result in suspension or expulsion from the College or other sanctions as specified in the Scottsdale Community College Academic Integrity Policy. Violations of academic integrity include, but are not limited to, cheating, fabrication, tampering, plagiarism, or facilitating such activities. Specific examples of academic misconduct relating to this course include:

- Copying another student's work and turning it in as one's own.
- Submitting another student's file as your own.

- Working jointly on an assignment, with each student turning in a copy of the joint product, creating the impression that each student completed the work independently.

Each student must complete his/her own work on his/her own computer with his/her own data files. If you are caught turning in another student's work, **both students will receive a zero and may be withdrawn for academic misconduct from the class with a grade of 'Y'.** **Cheating on an exam will result in immediate withdrawal for academic misconduct from the course with a grade of 'Y'.**

Withdrawal Policy

In addition to the general college withdrawal policy, the following additional withdrawal policies apply to this course:

- **Students must attend the first class session to be assigned a lab partner and enroll in the Netacad learning platform**
- Students who do not attend classes or participate for **two (2) weeks consecutively** will be withdrawn for attendance. Participation is defined as follows:
 - Submitting homework on or before due dates
 - Participating in discussions/critiques over the course of a due date
 - Completing exams/quizzes on or before due dates
 - Just logging into the Canvas course does **NOT** count as participation

The official date to request a withdrawal from your instructor in this course is:
September 21, 2026

Attendance Policy

You are required to attend all class meetings. You cannot be successful in a CIS class if you miss 20% or more of the meetings, even if the absences are excused. Therefore, after missing 20% of the class meetings – whether they are excused absences or unexcused – you will automatically be dropped from the course. If you miss, are late for class, or leave early you are responsible for ALL material covered during that class meeting. To successfully learn the course material, the student will need to invest significant time and effort in reading, key stroking and completing all the class assignments.

Instructional Contact Hours and Minimum Course Expectations

Instructional contact hours are the weekly time students spend directly learning with their instructor or course activities. These activities include, but are not limited to, lectures, discussions, labs, group work, and viewing recordings. Instructional contact hours vary by course; refer to the [MCCCD course bank](#) for your course's details.

Minimum course expectations include the number of hours students are expected to spend outside of class (weekly) completing coursework. Students are encouraged to use the [Time Management Calculator](#) to help estimate their weekly time commitment for classes.

Course Technologies

View the [Accessibility Statements & Privacy Policies](#) of the technologies used in this course. The [SCC Help Desk](#) provides students with a primary point of contact within SCC for college-supported technology services and technical assistance.

Maricopa Systems

This course uses key Maricopa systems for course management and communication.

- Canvas Learning Management System
- Student Maricopa Gmail Account

Streaming Media/Audio/Video Tools

This course uses webcasting, lecture capture systems, YouTube, and/or other streaming media services.

- YouTube
- Mentimeter

Student Assignment Tools

This course requires students to participate in or submit assignments using desktop or cloud-based applications.

- Google Products (or)
- [Microsoft Office 365](#)
- Adobe Reader
- Netacad.com
- Packet Tracer
- Snipping Tool (or equivalent for capturing screenshots)

Generative Artificial Intelligence (AI) Policy

The World Economic Forum defines generative AI as “a category of artificial intelligence (AI) algorithms that generate new outputs based on the data they have been trained on. Unlike traditional AI systems that are designed to recognize patterns and make predictions, generative AI creates new content in the form of images, text, audio, and more.”

Some examples of generative AI tools include but are not limited to: Claude, ChatGPT, Google Gemini, Microsoft Copilot.

I will encourage you to use GenAI tools to assist you with the creation of study materials and as a study resource. There are situations and contexts within this course where you may be permitted to use generative AI tools for assignments. In these cases, specific guidelines will be provided in the assignment details. If you are unsure if the tool or website you are using is a generative AI tool or if it is permitted on a specific assignment, please contact the instructor for further clarification before submitting your work.

Grading Standards and Practices

Grade Scale

Table 1 Course Grading Scale

Letter Grade	Points Range
A	90 – 100%
B	80 – 89%
C	70 – 79%
D	60 – 69%
F	0 – 59%

Assignments

Table 2 List of Assignments

Assignment Name	Percent of Grade
Homework Assignments	15%
In-Class Activities	20%
Chapter Exams	15%
Mid-Term Exam (Packet Tracer Activity)	15%
Case Study (Packet Tracer Activity)	10%
Skills Based Final (Packet Tracer Activity)	10%
Netacad Final Exam	15%
TOTAL:	100%

NOTE: Students must take both the Skills Final (practical) and Cisco Final Exam (written) to pass this class.

- **Case Study:** The case study is intended to help students apply the skills learned in the class to a real-world problem. Students will be assigned a scenario and will be required to produce deliverables equivalent to the work a professional consulting firm might provide given the same scenario.
- **Chapter Exams** are taken online via the Cisco Netacad site.
- The **Skills Based Final** will be an individual effort to demonstrate your proficiency in applying the concepts learned in class. Class notes will be available during the skill-based final exam for reference purposes.

- **Labs/Activities:** While labs may be done in teams and may vary depending on class progress, the results will be submitted individually. The goal is to complete each lab successfully and then be able to document what happened in the lab.
- **Final Assessment Exam:** Possession of any reference material during an exam, not expressly permitted by the instructor (if any), or any other form of cheating or attempts at cheating, may result in a loss of all points for that exam.

Final Exam Date

Your Final Exam completion deadline is Friday December 18th, 2026
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Student/Instructor Interaction

In this course, you can expect regular and substantive interaction (RSI) that aligns with Scottsdale Community College's mission to provide challenging and supportive learning experiences and the US Department of Education's requirement for regular and substantive interaction (RSI) for online courses. My commitment to your success includes the following:

- Being available during regularly scheduled office hours as stated in the syllabus.
- Sharing weekly information about the course materials, including key information, explanations, examples, and resources via in-person, recorded, and/or text-based lectures.
- Engaging in weekly discussions about course content within discussion boards in Canvas, forums in MOER, or other discussion-based tools.
- Providing group or individual feedback regularly on assignments.
- Promptly responding to student questions about the course sent via email, MOER messaging, or the Canvas inbox.
- Regularly posting announcements about the course content and activities.
- Monitor your academic progress and communicate concerns, as needed.

Response Time

Students can expect a response time of **24-48 hours** for the instructor to respond to messages sent via the Canvas Learning Management System or cristobal.romero@maricopa.edu email. Students can expect assignments to be graded within **one week** of the assignment's due date.

Tutoring

SCC's tutors are available online to help with your courses. You may work with an SCC tutor remotely using Google Meet, your phone, or email. Visit the [Tutoring & Learning Centers](#) page for detailed information on the five learning centers' hours and procedures.

If you need to work with a tutor outside regular hours, online and hybrid students now have access to a 24/7 online tutoring service called Brainfuse. To access Brainfuse and begin working with a tutor, visit the [SCC Online Tutoring Services Through Brainfuse](#) page.

CIS Study Lab

We urge CIS students to utilize the [CIS Study Lab](#). This lab is used for hands-on classwork and is staffed with CIS instructors. Any SCC student currently enrolled in a CIS course may use this lab. A detailed lab schedule with instructor-assigned times and locations is posted in your Canvas course.

We urge CIS students to utilize the CIS Study Lab located in CM446. This lab is used for hands-on classwork and is staffed with CIS instructors.

MCCCD Policies

MCCCD is committed to providing a safe, fair, and accessible environment for all students. This includes laws such as the ADA and Title IX, which protect against discrimination. These statements explain your rights, available support, and where to go for help or more information. Please review the following policies:

Classroom Accommodations for Students with Disabilities

In accordance with the Americans with Disabilities Act (ADA), the Maricopa County Community College District (MCCCD) and its associated colleges are committed to providing equitable access to learning opportunities to students with documented disabilities (e.g. physical, sensory, neurological, chronic illness, mental health, learning disabilities, or other health concerns). If you require accommodations for this course, please contact [Disability Resources and Services](#) (DRS) at your college.

Contact with [DRS](#) should be made as soon as possible to ensure academic needs are met in a reasonable time. Additional information can be found in the [Non-Discrimination Statement](#) and [MCCCD Non-Discrimination Policies](#).

[Addressing Incidents of Title IX Sexual Harassment](#)

Students are responsible for the information contained in this syllabus, the Syllabus page in your Canvas course and the **College Policies & Student Services** page found in the First Steps module of your Canvas course. Students will be notified by the instructor of any changes in course requirements or policies.