



Cisco | Networking Academy®
Mind Wide Open™



Cisco CCNA 2 – Routing Protocols and Concepts Simultaneously In-person or Online (CS 82.21B)

General information

[Cisco Systems](#) is a market leading ICT technology solutions company providing equipment and technology that form the technical foundation of many ICT service providers and enterprises. Its [Cisco Networking Academy](#) serves 600,000 students annually in more than 160 countries, providing valuable ICT skills for increased access to opportunities in the global economy.

The [Cisco Certified Network Associate \(CCNA\)](#) is the second level of the Cisco Networking Academy curriculum and certification program. CCNA certification validates the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks, including implementation and verification of connections to remote sites in a WAN. CCNA curriculum includes basic mitigation of security threats, introduction to wireless networking concepts and terminology and performance-based skills. This curriculum also includes (but is not limited to) the use of these protocols: IP, Enhanced Interior Gateway Routing Protocol (EIGRP), Serial Line Interface Protocol Frame Relay, Routing Information Protocol Version 2 (RIPv2), VLANs, Ethernet, access control lists (ACLs). CCNA certification is recognized globally.



Course Description

This 4-unit course, Routing Protocols and Concepts, is the second of four [CCNA Exploration](#) courses preparing students for the [CCNA certification exam](#). This course, for the Information Technology (IT) professional, describes the architecture, components, and operation of routers, and explains the principles of routing and routing protocols. Students analyze, configure, verify, and troubleshoot the primary routing protocols RIPv1 (Routing Information Protocol version 1), RIPv2, EIGRP (Enhanced Interior Gateway Routing Protocol), and OSPF (Open Shortest Path First). Students will recognize and correct common routing issues and problems. Material is presented through a basic procedural labs, basic configuration, implementation, and troubleshooting labs. Network simulator activities reinforce new concepts, and allow students to model and analyze routing processes that may be difficult to visualize or understand. See this [example](#) as a flavor of the course.

Prerequisite: Completion of [CS82.21A](#) CCNA1 – Network Fundamentals.

Instructor

[Michael McKeever](#) is a seasoned Cisco Networking Academy instructor at the [SRJC Technology Academy](#) and an MPICT Regional Partner.

For more information, contact him at:

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In-Person Instructor Led Course

This face-to-face course will be Mondays and Wednesdays, 9am-1:10pm (section 4271) OR 5:30pm – 9:40pm (section 4273), October 18 – December 15, on the [Santa Rosa Junior College Petaluma Campus](#) in room PC 645. [Apply to SRJC](#) and [Register](#) for [CS82.21B](#) Section 4271 or 4273.

Synchronous, Interactive Online Course with Remote Lab Access

Now, students at other colleges have an opportunity to take this course, offered for the first time in a hybrid in-person and remote access format through the [Mid-Pacific ICT Center](#).

Students will be able to interact with the class in real time via the outstanding [CCCConfer](#) Teach and Confer platform via any computer at any connection speed on the Internet. Labs will be available through scheduled NETLAB remote access to actual Cisco routers (not a simulator). However, the [Cisco Packet Tracer](#) simulator will also be used to enhance learning.

Register for [CS82.21B](#) Section 4271 or 4273.

Asynchronous Course Review

Students will be able to view archived course lectures via the Internet and may be able to download video and audio podcasts of course lectures for review on mobile devices.

