



CCNP - ROUTE

Hybrid Online or In-person CCNP Course (CIS 185)

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 Professional \(CCNP\)](#) is an advanced segment of the Cisco Networking Academy curriculum and certification program, which validates knowledge and skills required to install, configure and troubleshoot converged local and wide area networks with 100+ nodes. CCNP Professionals have demonstrated knowledge and skills required to manage the routers and switches at the network core, as well as edge applications that integrate voice, wireless, and security into the network.

Course Description

This 4-unit CCNP course, CIS 185 Advanced Routing (CCNP ROUTE) teaches advanced skills required to implement and support enterprise-class IP routing networks and prepares students for the CCNP ROUTE exam. Students will learn how to create an efficient and expandable enterprise network by installing, configuring, monitoring, and troubleshooting routers using Cisco IOS. The routed network includes the most commonly used and emerging IP routing protocols and other technologies, including:

- Routing Services and Scalable Network Design
- EIGRP
- Multi-Area OSPF (Includes review of Single Area OSPF)
- Manipulating Routing Updates
- Implementing Path Control
- BGP
- Implementing Routing Facilities for Branch Offices and Mobile Workers
- IPv6, Routing IPv6 and IPv6 interoperation with IPv4

Note: This course is using the new curriculum, labs and assessment questions for the new CCNP ROUTE course.

Prerequisite: CCNA Routing course or equivalent knowledge

Instructor

Rick Graziani is a seasoned Cisco Networking Academy instructor, co-author of [Routing Protocols and Concepts](#), [CCNA Exploration Companion Guide](#) and MPICT Regional Partner. He is assisted in the lab by Luigi (the dog).

- graziani@cabrillo.edu
- www.cabrillo.edu/~rgraziani



In-Person Instructor Led Course

This face-to-face course will be Tuesdays, 5:30-9pm, 8/31–12/18, on the [Cabrillo College Aptos campus](#) in room 2502. Register for CIS 185, section 67719.

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 on the Internet. Labs will be available through scheduled Netlab VPN remote access to actual Cisco routers (not a simulator).

Register for CIS 185, section 67720.

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.



Enroll and Register for CIS 185

<http://www.cabrillo.edu/services/ar/index.html>

- Choose CIS 185, section 67719 for the in-person class.
- Choose CIS 185, section 67720 for the online class.

Contact Rick Graziani at graziani@cabrillo.edu with any questions.



CCNP - TSHOOT

Hybrid Online or In-person CCNP Course (CIS 188)

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 Professional \(CCNP\)](#) is an advanced segment of the Cisco Networking Academy curriculum and certification program, which validates knowledge and skills required to install, configure and troubleshoot converged local and wide area networks with 100+ nodes. CCNP Professionals have demonstrated knowledge and skills required to manage the routers and switches at the network core, as well as edge applications that integrate voice, wireless, and security into the network.

Course Description

Note: This course is currently listed in the Catalog and Schedule of Classes as CIS 188 Optimizing Converged Cisco Networks but will be taught as the new CCNP TSHOOT (Troubleshooting) course.

This 4-unit CCNP course, CIS 188 (CCNP TSHOOT) teaches planning tasks, evaluations of designs, performance measurements, configuring and verifying, and correct troubleshooting procedures and documentation tasks. In this course you will learn the foundational topics for critical analysis, planning, verification and documentation, while configuring tasks would have been mastered in the CCNP ROUTE and CCNP SWITCH material. The routed network includes the most commonly used and emerging IP routing protocols and other technologies, including:

- Planning Maintenance for Complex Networks
- Troubleshooting Processes
- Using Maintenance and Troubleshooting Tools and Applications
- Maintaining and Troubleshooting Switched Solutions
- Maintaining and Troubleshooting Routing Solutions
- Troubleshooting Addressing Services
- Troubleshooting Network Performance Issues
- Troubleshooting Converged Networks

- Maintaining and Troubleshooting Network Security Implementation

Note: This course is using the new curriculum, labs and assessment questions for the new CCNP TSHOOT course.

Prerequisite: CCNA Routing course or equivalent knowledge

Instructor

Rick Graziani is a seasoned Cisco Networking Academy instructor, co-author of [Routing Protocols and Concepts](#), [CCNA Exploration Companion Guide](#) and MPICT Regional Partner. He is assisted in the lab by Luigi (the dog).

- graziani@cabrillo.edu
- www.cabrillo.edu/~rgraziani



In-Person Instructor Led Course

This face-to-face course will be Mondays, 5:30-9pm, 8/30–12/18, on the [Cabrillo College Aptos campus](#) in room 2502. Register for CIS 188, section 69636.

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 on the Internet. Labs will be available through scheduled Netlab VPN remote access to actual Cisco routers (not a simulator).

Register for CIS 188, section 69636.

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.



Enroll and Register for CIS 188

<http://www.cabrillo.edu/services/ar/index.html>

- Choose CIS 188, section 69636 for the in-person class.
- Choose CIS 188, section 69635 for the online class.

Contact Rick Graziani at graziani@cabrillo.edu with any questions.