

The Cisco Networking Academy

Portfolio & Course Orientation

Oktober 2022



Faces of the Cisco Networking Academy



Rebecca Baca
Albuquerque, New Mexico

- Single mother with 5 year old daughter
- Enrolled in Networking Academy courses through technical school
- Earned CCNA & CCNP
- Currently Senior Network Engineer



Luigi Celeste
Italy

- At 23 killed his father to protect his mother and brother from abuse
- Joined Cisco Networking Academy in prison, first prisoner to earn CCNA
- IT and Security Professional



Dandy Cantaka
Malang, Indonesia

- Unable to attend college due to father's illness
- Attended vocational school and joined Cisco Networking Academy
- Network Security Engineer helping to provide for mother and father



Edna Felix
Rio de Janeiro, Brazil

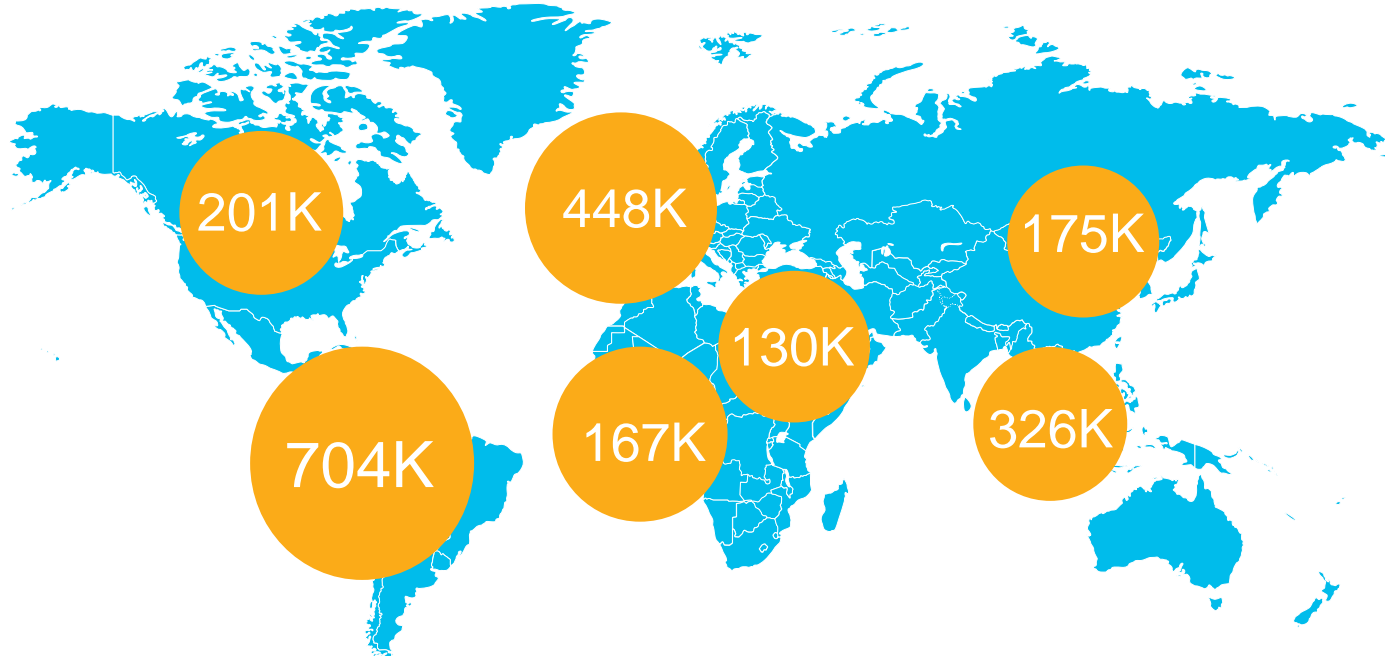
- Father died at 17, had to help support her family
- Enrolled in Networking Academy
- Selected to work on technical team at the NBA House during 2016 Olympics



Soso Luning
Eastern Cape, South Africa

- Raised in a corrugated tin house with dirt floors
- Only one from her village to qualify for computer lessons, completed CCNA
- Multiple roles in IT, NetAad Instructor and now works for the Networking Academy

Cisco Networking Academy



✓ 12,100
Academies

✓ 180
Countries

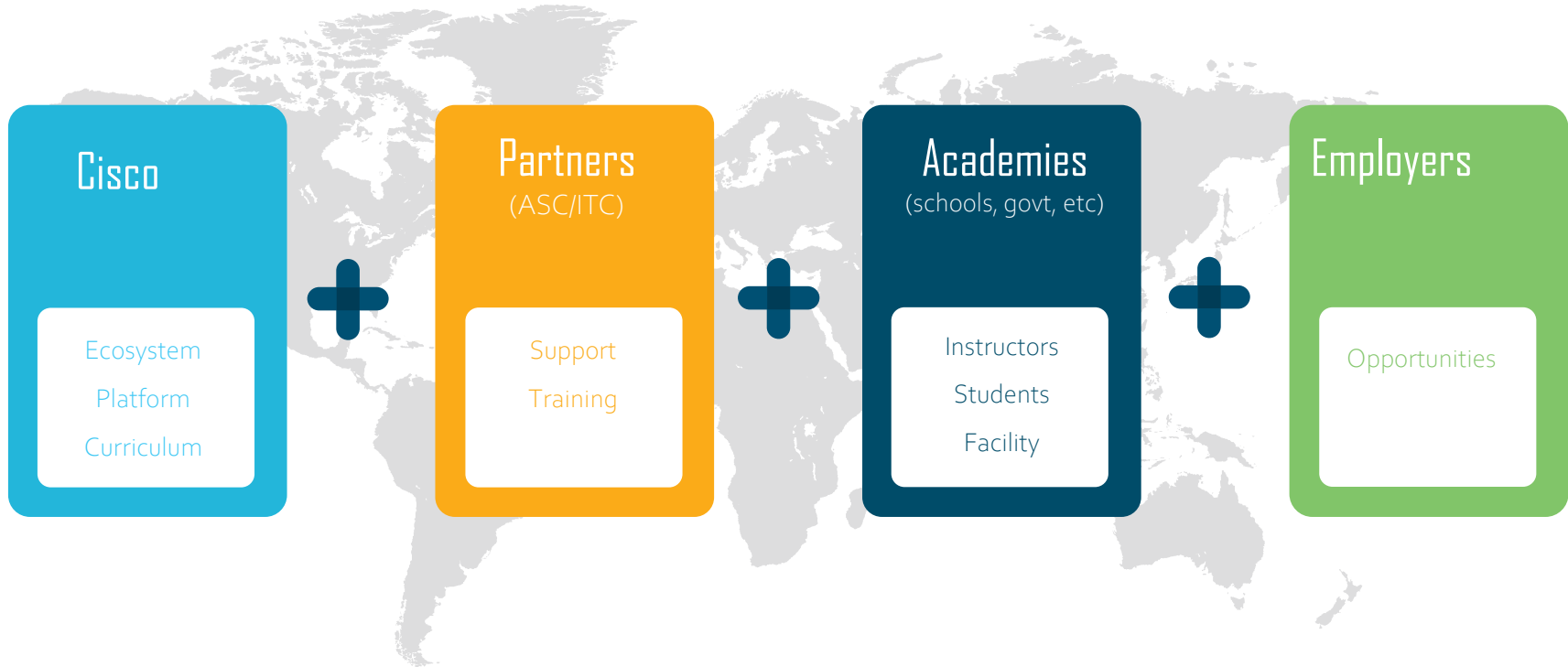
✓ 10.9M
Students
Served

✓ 26,500
Instructors

2.15M Currently Enrolled Globally

Preparing people for IT careers since 1997

Cisco Networking Academy Partnership



Explore

Introduction to exciting opportunities in technology.

- ▲ Get Connected
- ▲ Introduction to Packet Tracer
- ▲ NDG Linux Unhatched
- ▲ Cybersecurity Essentials
- ▲ Introduction to Cybersecurity
- ▲ Introduction to IoT
- Networking Essentials
- ▲ Entrepreneurship

Career

Preparation for entry level positions.



Digital Essentials

★ ● ■ IT Essentials

● ▲ NDG Linux Essentials

● ▲ PCAP: Programming Essentials in Python

■ Hackathon Playbook



Networking

CCNA:

- ★ ● ■ Introduction to Networks (ITN)
- ★ ● ■ Switching, Routing, & Wireless Essentials (SRWE)
- ★ ● ■ Enterprise Networking, Security & Automation (ENSA)

CCNP R&S:

- ★ ● ■ Switch
- ★ ● ■ Route
- ★ ● ■ TShoot



Programmable Infrastructure

Emerging Tech Workshops:

- Network Programmability
- Experimenting with REST APIs

IoT Fundamentals:

- ★ ■ Connecting Things
- ★ ■ Big Data & Analytics



Cybersecurity

★ ● ■ CCNA Security

★ ● ■ CCNA Cybersecurity Operations

IoT Fundamentals:

- IoT Security

Practice

Increase mastery with hands-on tools & experiences

Packet Tracer

Gaming

Prototyping Lab

Virtual Labs

Assessments

Physical Equipment

Complementary Offerings

Additional offerings available from Partners.



- ▲ NDG Linux I
- ▲ NDG Linux II
- NDG NetLab+
- NDG CCNA CyberOps Lab



- CLA: Programming Essentials in C
- CLP: Advanced Programming in C
- CPA: Programming Essentials in C++
- CPP: Advanced Programming in C++

Networking Professional

As major industries migrate their infrastructure to take full advantage of IoT, the role and skills required of a networking professional are evolving and more vital than ever because the network connects everything.

Sample Titles: Networking Technician, Network Analyst, Network Administrator, Network Engineer

Typical Workplace

- Office
- Customer site
- Home

Company Size and Type

- Medium to large enterprises
- Network service providers
- Tech support centers

Personality Type

- Problem-solver
- Always learning
- Like working with others

Strengths

- Strong balance of technical, teamwork and communication skills

Education Level

- 2-year college to 4-year college

Certifications

- CCENT, CCNA R&S, CCNP R&S



Learn more at:

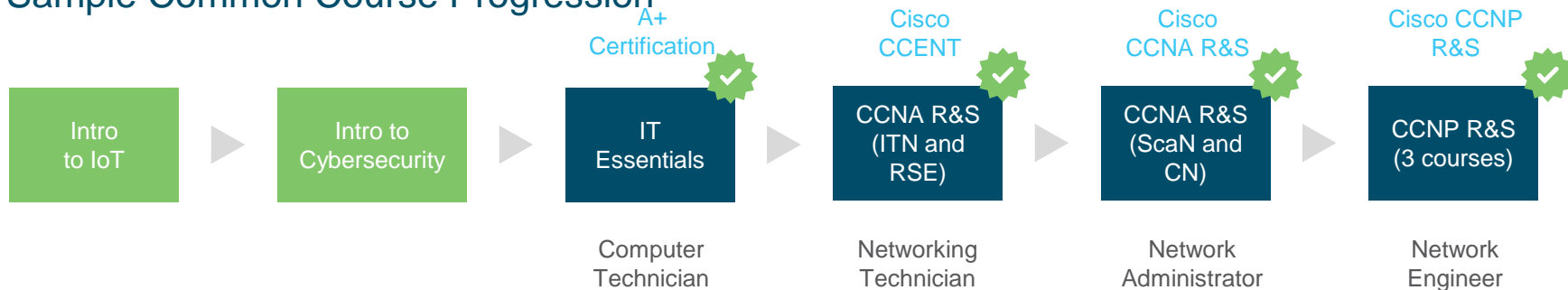
[NetAcad.com](https://www.netacad.com)

[NetAcad Group LinkedIn](#)

[Career Resource Webinars](#)


Networking Professional

Sample Common Course Progression



Complementary Learning Activities

Expand Your Knowledge

- Networking Essentials (possible alternate to IT Essentials)
- Cybersecurity Essentials
- NDG Linux Essentials
- PCAP: Programming Essentials in Python 
- Career and Networking Technology Webinars

- Network Programmability Workshop
- IoT Fundamentals
 - Connecting Things
 - IoT Security
 - Big Data and Analytics
 - Hackathon Playbook

Collaborate for Impact

- Cisco Prototyping Lab
- Packet Tracer Games
- [Internships](#)
- [Career Resource Webinars](#)
- [Hackathons](#)



Certification



Networking Courses

CCNAv7: Introduction to Networks (ITN)

Course Overview

The first course in the CCNA curriculum introduces the architectures, models, protocols, and networking elements that connect users, devices, applications and data through the Internet and across modern computer networks - including IP addressing and Ethernet fundamentals.

Benefits

By the end of the course, students can build simple local area networks (LAN) that integrate IP addressing schemes, foundational network security, and perform basic configurations for routers and switches.

Learning Components

- 17 modules
- 24 hands-on labs
- 31 Cisco Packet Tracer activities
- 36 videos
- 10 syntax checkers
- 13 interactive activities
- 64 Check Your Understanding quizzes
- 17 module exams
- 6 module group exams
- 1 final exam



Features

Target Audience: Secondary vocational students, 2-year and 4-year college students in Networking or Engineering

Prerequisites: None

Instructor Training Required: Yes

Languages: English

Course Delivery: Instructor-led

Course Recognitions: Certificate of Completion, Letter of Merit, Digital Badge

Estimated Time to Complete: 70 hours

Recommended Next Course: CCNAv7: Switching, Routing, and Wireless Essentials (SRWE)

CCNAv7: Switching, Routing, and Wireless Essentials (SRWE)

Course Overview

The second course in the CCNA curriculum focuses on switching technologies and router operations that support small-to-medium business networks and includes wireless local area networks (WLAN) and security concepts.

Benefits

Students learn key switching and routing concepts. They can perform basic network configuration and troubleshooting, identify and mitigate LAN security threats, and configure and secure a basic WLAN.

Learning Components

- 16 modules
- 14 hands-on labs
- 31 Cisco Packet Tracer activities
- 15 videos
- 19 syntax checkers
- 1 interactive activity
- 36 Check Your Understanding quizzes
- 16 module exams
- 5 module group exams
- 1 final exam



Features

Target Audience: Secondary vocational students, 2-year and 4-year college students in Networking or Engineering

Prerequisites: None

Instructor Training Required: Yes

Languages: English

Course Delivery: Instructor-led

Course Recognitions: Certificate of Completion, Letter of Merit, Digital Badge

Estimated Time to Complete: 70 hours

Recommended Next Course: CCNAv7: Enterprise Networking, Security, and Automation (ENSA)

CCNAv7: Enterprise Networking, Security, and Automation (ENSA)

Course Overview

The third CCNA course describes the architectures and considerations related to designing, securing, operating, and troubleshooting enterprise networks – including wide area network (WAN) technologies & quality of service (QoS) mechanisms for secure remote access, along with software-defined networking, virtualization, & automation concepts supporting network digitization.

Benefits

Students gain skills to configure and troubleshoot enterprise networks, and learn to identify and protect against cybersecurity threats. They are introduced to network management tools and learn key concepts of software-defined networking, including controller-based architectures and how application programming interfaces (APIs) enable network automation.

Learning Components

- 14 modules
- 12 hands-on labs
- 29 Cisco Packet Tracer activities
- 32 videos
- 13 syntax checkers
- 2 interactive activities
- 53 Check Your Understanding quizzes
- 14 module exams
- 5 module group exams
- 1 final exam
- 1 practice exam for CCNA certification exam



Features

Target Audience: 2-year and 4-year college students in Networking or Engineering

Prerequisites: None

Instructor Training Required: Yes

Languages: English

Course Delivery: Instructor-led

Course Recognitions: Certificate of Completion, Letter of Merit, Digital Badge

Estimated Time to Complete: 70 hours

Recommended Next Course: CCNP Enterprise Core



Why Cisco for Education?

1

Learning and innovation are core to who we are.

2


We are equipping the workforce of the future.

3

We help drive education innovation.

4

Security is critical to protecting your students. So we build it into everything we make.

A young woman with dark hair is shown in profile on the right side of the frame, looking towards the left. She has a focused expression. The background is a blurred classroom or computer lab with several other students, some wearing green shirts, sitting at desks with computers.

Networking in the Era of Digital Transformation

Join the vanguard of educators who are bringing technology education and exciting job opportunities to future tech talent.



Courses that Prepare People for Careers in IT and Networking

Cisco Networking Academy courses provide the latest skills and knowledge for networking careers.

Courses Develop Networking Professionals

EXPLORATORY



Intro to IoT
Intro to Cybersecurity

Start with technology awareness and career discovery.

FOUNDATIONAL



PCAP: Programming Essentials in Python
NOG Linux Essentials
IoT Fundamentals: Connecting Things

Move on to fundamental principles, procedures, and practices.

CAREER READY



CCNA Routing & Switching Curriculum
1, 2, 3 & 4

Learn how networks operate, from protocols and services to network management.



CCNA Security

Delve deep into networking security, focusing on design, implementation and protection of secure networks.

CERTIFICATION AND EMPLOYMENT



Certification opportunities

Stackable certifications attract employers, and our career programs help connect students to jobs.



Promising job prospects

Course Intro:

Career-Ready Networking Skills



CCNA Routing and Switching

Gain comprehensive skills for how networks operate, from protocols and services to network management.

DELIVERY: Instructor-led

DURATION: Two to four semesters, four-70 hour courses

SUITABLE FOR: Secondary, post-sec, college

PREREQUISITES: None

INSTRUCTOR TRAINING REQUIRED: Yes

ASC ALIGNMENT REQUIRED: Yes



CCNA Security

Delve deep into the skills needed to design, implement, and manage network security systems.

DELIVERY: Instructor-led

DURATION: 70 hours

SUITABLE FOR: Post-sec, college

PREREQUISITES: First two CCNA R&Scourses

INSTRUCTOR TRAINING REQUIRED: Yes

ASC ALIGNMENT REQUIRED: Yes

Networking Pathway

Sample Job Titles

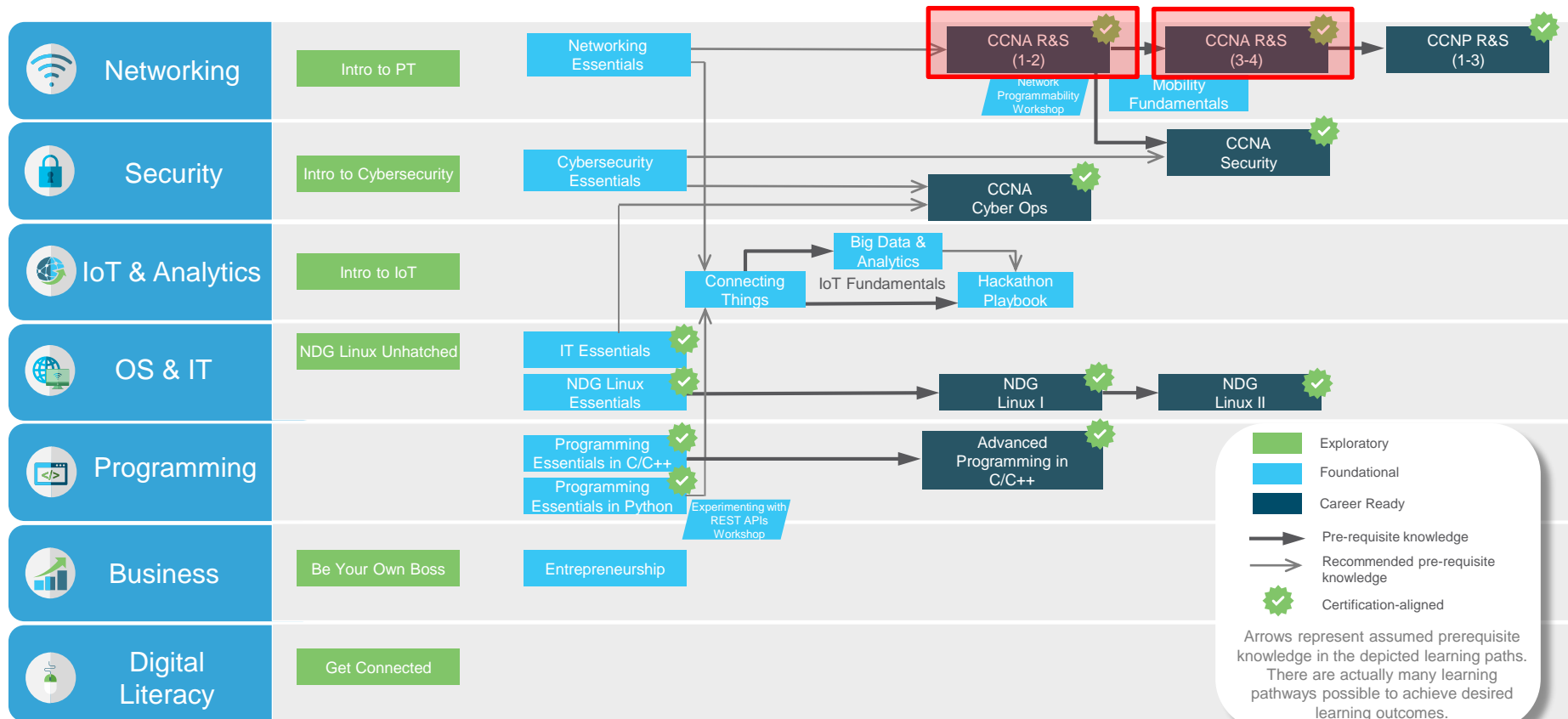
- Technical Support
- IT Field Service Technician
- Help Desk Technician

- Mobile Application Support
- Network Support Technician
- Network Analyst

- Network Technician
- Support Engineer
- Network Administrator

- Entry-Level Network Engineer
- Linux Administrator
- Cyber Ops Analyst

- Level II Network Engineer
- Network Designer



Exploratory
 Foundational
 Career Ready
 Pre-requisite knowledge
 Recommended pre-requisite knowledge
 Certification-aligned

Arrows represent assumed prerequisite knowledge in the depicted learning paths. There are actually many learning pathways possible to achieve desired learning outcomes.



Course Orientation

netacad.com



Cisco Networking Academy
Mind Wide Open

Course Outline **CCNA1v7**

Module	Title
1	Networking Today
2	Basic Switch and End Device Configuration
3	Protocols and Models
4	Physical Layer
5	Number Systems
6	Data Link Layer
7	Ethernet Switching
8	Network Layer
9	Address Resolution
10	Basic Router Configuration
11	IPv4 Addressing
12	IPv6 Addressing
13	ICMP
14	Transport Layer
15	Application Layer
16	Network Security Fundamentals
17	Build a Small Network

Course Outline **CCNA2v7**

Module	Title
1	Basic Device Configuration
2	Switching Concepts
3	VLANs
4	Inter-VLAN Routing
5	STP Concepts
6	EtherChannel
7	DHCPv4
8	SLAAC and DHCPv6
9	FHRP Concepts
10	LAN Security Concepts
11	Switch Security Configuration
12	WLAN Concepts
13	WLAN Configuration
14	Routing Concepts
15	IP Static Routing
16	Troubleshoot Static and Default Routes

Scoring & Rules

20% Chapter Exam (Tugas 1 - Teori)

20% Final Exam (Tugas 2 - Teori)

30% Assignment (UTS - Praktek)

30% Skill Based Assignment (UAS - Praktek)

Absent Tanpa Alasan ≥ 4 will not grade dan nilai akhir E

Nilai Minimal kelulusan untuk mendapatkan Sertifikat 68 (A & B)

Nilai Minimal Kelulusan Mata Kuliah 45 (D)

netacad.com

- Modules
- Assignments
- Chapter Exam
- Packet Tracer Activities
- Practice Skills Exam
- Final Exam
- Skill Based Assignment

Become part as Cisco
Networking Academy Student

I'm Learning

🔄 Refresh Status

Browse Course Catalog

Courses I've Enrolled In

Status

All Statuses ▾

 In Progress

Learning-CCNAv7-TS

Learning-CCNAv7-TS

Universitas Komputer Indonesia



Week
1 of 13

28 Feb - 28 May 2020

CCNAv7: Introduction to Networks

Showing

6 ▾

<< < 1 - 1 of 1 > >>

[View Completed and Ended Courses in your NetAcad Learning Transcript](#)



Home

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Courses



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Help

Modules

Assignments

Grades

People

Discussions

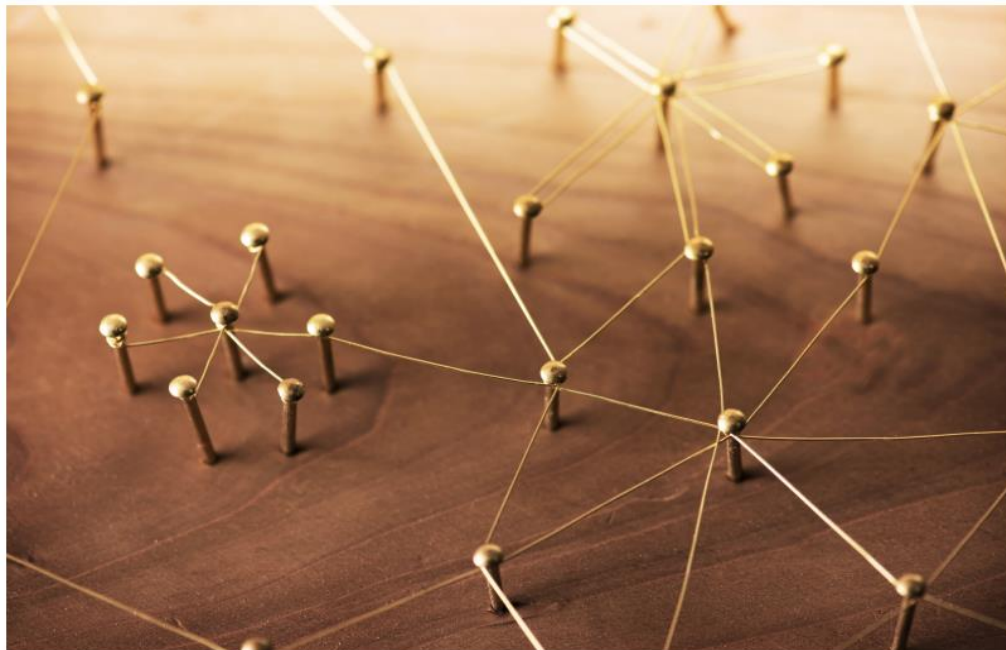
Collaborations

Learning-CCNAv7-TS

Welcome to Introduction to Networks v7.0 (ITN)

Go to the [Modules](#) section to find all of the content, assessments, and resources for this course.

In order to avoid potential compatibility issues, you should use the latest version of Packet Tracer.



View Course Stream

View Course Calendar

To Do

Nothing for now

Recent Feedback

Nothing for now

1 Networking Today ▾

2 Basic Switch and End Device Configuration ▾

3 Protocols and Models ▾

4 Physical Layer ▾

5 Number Systems ▾

6 Data Link Layer ▾

7 Ethernet Switching ▾

8 Network Layer ▾

9 Address Resolution ▾

10 Basic Router Configuration ▾

11 IPv4 Addressing ▾

12 IPv6 Addressing ▾

13 ICMP ▾

Introduction to Networks

Networking Academy CCNAv7

Welcome to the first course of the Cisco Networking Academy CCNAv7 curriculum, Introduction to Networks (ITN). This is the first of three courses that are aligned to the CCNA Certification Exam. ITN contains 17 modules, each with a series of topics.

In Introduction to Networks, you will gain a basic understanding of the way networks operate. You will learn about network components and their functions, as well as how a network is structured, and the architectures used to create networks, including the internet.

But ITN is about more than learning networking concepts. By the end of this course, you will be able to build local area networks (LANs), configure basic settings on routers and switches, and implement internet protocol (IP).

In ITN, every concept that you learn and skill that you develop will be used in the rest of the CCNA curriculum. Now is the time to supercharge your networking career and let Cisco Networking Academy help you to reach your goal!



Grades for Angga Friyanto

Print Grades

Arrange By

Due Date



Apply

Name	Due	Status	Score	Out of
Modules 1 - 3: Basic Network Connectivity and Communications Exam			-	100
Modules 4 - 7: Ethernet Concepts Exam			-	100
Modules 11 - 13: IP Addressing Exam			-	100
Modules 14 - 15: Network Application Communications Exam			-	100
Modules 16 - 17: Building and Securing a Small Network Exam			-	100
Course Feedback			-	100
Final Exam			-	100
Instructor Use Only Assign Student Pass Status			-	100

Total: N/A

Show All Details

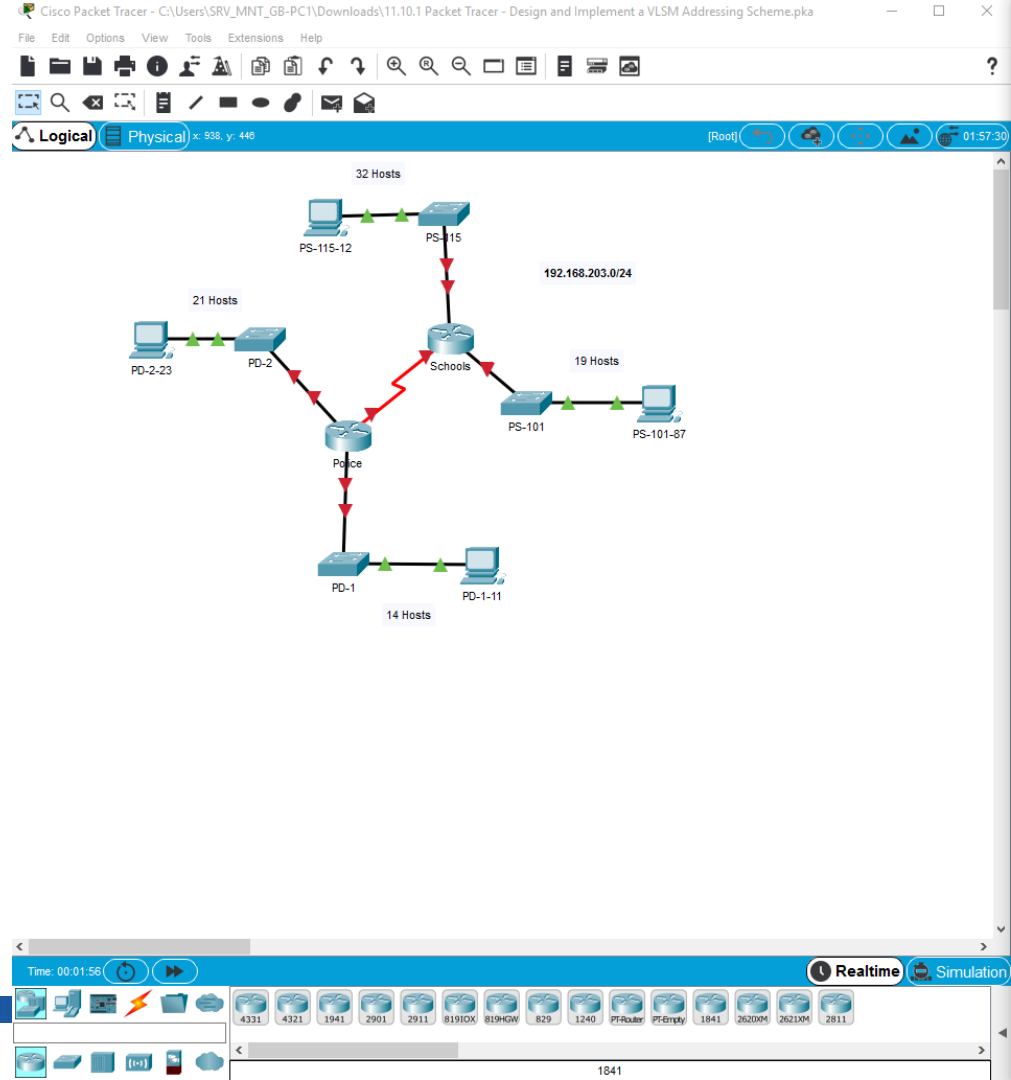
Assignments are weighted by group:

Group	Weight
Assignments	0%
Course Content	0%
Module Group Exams	40%
Skills Exams	30%
Practice Final Exam	0%
Final Exam	30%
Student Completion	0%
Total	100%

☒ Calculate based only on graded assignments

You can view your grades based on What-If scores so that you know how grades will be affected by upcoming or resubmitted assignments. You can test scores for an assignment that already includes a score, or an assignment that has yet to be graded.

Cisco Packet Tracer





Rp. 100.000,- for Registration Course Netacad, Exam & Certificate Completion Netacad

- Modules
- Assignments
- Chapter Group Exam
- Practice Skills Exam
- Final Exam
- Skill Based Assignment



Includes additional courses

select one of the courses below

| NDG Linux Essentials

| Introduction to IoT

| PCAP: Programming Essentials in Python

| Introduction to Cybersecurity

Become a Cisco Networking Academy Student

Untuk pembayaran netacad cisco **Rp.100.000**
transfer ke nomor rekening:

2000 200 710

a.n Cisco Academy Unikom
Cabang KLN Unikom

Mahasiswa mengulang matakuliah yang sama atau level course sama

Tidak harus transfer biaya,
Hanya Registrasi dengan
upload transkrip netacad

** Download transkrip course netacad akan dijelaskan dalam panduan*

Jadwal Registrasi

- Proses Pembayaran & Registrasi : 4 s.d 23 Oktober 2022
- Enroll kelas ke Netacad :
 - Tahap 1: 10 Oktober 2022
 - Tahap 2: 17 Oktober 2021
 - Tahap 3: 24 Oktober 2022

Mohon mengikuti proses pendaftaran sesuai jadwal.

Mahasiswa yang belum terdaftar di netacad sampai dengan minggu keempat, maka tidak dapat mengikuti perkuliahan berikutnya.

*Panduan registrasi dan upload bukti transfer akan diberikan pada dokumen terpisah.

Untuk Pertanyaan dan kendala teknis

**Hubungi Sekretariat Lab Cisco di Ruang
L.023 Lantai Lobby Gedung Baru**

atau

netedu@email.unikom.ac.id

