



Computer Networks I Introduction

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Malin Bornhager

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Computer Networks I

- **Instructors**
- **What is Cisco Networking Academy (CNAP)?**
- **Cisco Certified Network Associate (CCNA) 1-4**
- **Academy Connection**

Instructors

- **Malin Bornhager (course responsible, lectures, laborations, exercises)**
- **Annette Böhm (lectures)**
- **Kristian Löfvenholm (laborations, excercises)**
- **Philip Heimer (laborations)**
- **Patrik Persson (laborations)**
- **Paul Nilsson (laborations)**

What is Cisco Networking Academy

- **Cisco Networking Academy (CNAP)**
- **E-learning program**
- **Cisco Systems**
- **Cisco Academy Training Center (CATC)**
- **Regional Academies (RA), *Halmstad University***
- **Local Academies (LA)**
- **Students**

Curriculum

- **CCNA 1 through 4**
- **CCNP 1 through 4**
- **Fundamentals of UNIX**
- **Wireless LANs**
- **Network Security (I and II) / CCNA Security**
- **Java Programming**
- **IT Essentials I and II (PC Hardware and Software, Network Operating Systems)**
- **IP Telephony**

CCNA – Cisco Certified Networking Associate

- **Discovery**
- **Exploration**
 - **Network Fundamentals (Computer Networks 1)**
 - **Routing Protocols and Concepts (Computer Networks 1)**
 - **LAN Switching and Wireless (Computer Networks 2)**
 - **Accessing the WAN (Computer Networks 2)**

CCNA 1: Network Fundamentals

- **Introduction to fundamental networking concepts and technologies**
- **OSI Model**
- **TCP/IP**
- **Network devices**
- **Addressing**
- **Cabling**

CCNA 2: Routing Protocols and Concepts

- **Understand how a router learns about remote networks**
- **Best path to networks**
- **Static routes and Routing protocols**
- **Configuration, verification and troubleshooting**
- **Routing table**

Course Litterature

- **Online Curriculum**
 - <http://cisco.netacad.net>
- **Textbook:**
 - “Network Fundamentals, CCNA Exploration Companion Guide”, ISBN 1587132087
 - ”Routing Protocols and Concepts, CCNA Exploration Companion Guide”, ISBN 1587132060
 - <http://www.pearsoned.co.uk/bookshop/>
- **Laborations and Additional Course material**
 - **Course web page:**
<http://www.hh.se/computernetworks1>

Academy Connection

- **<http://cisco.netacad.net>**
- **User account**
 - Username and password on my door
- **Use your University e-mail**

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Cisco Networking Academy Program

- [Networking Academy Program Overview](#)
The Cisco Networking Academy Program is a comprehensive program designed to teach students internet technology skills.
- [Digital Divide](#)
The Academy program helps bridge the gap by offering programs in key countries and to underserved populations.
- [Career Connection](#)
Through Career Connection, participating employers have access to a global pool of trained IT professionals.
- [Course Catalog](#)
Review Networking Academy course offerings.
- [Success Stories](#)
Read the latest success stories about the Cisco Networking Academy Program.
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Networking Academy Program Headlines

- [New Look for Cisco Networking Academy Program Resources](#)
(08/18/2005)
- [CCHA 2 Students: We Need Your Input!](#)
(06/29/2005)
- [Academy Connection Enhancements Planned mid-March](#)
(03/10/2005)

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My Classes

Halmstad University ([View Information](#))

Class Name	Start Date
CCNP3_vt05	02/21/2005

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Career Development

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- Course Materials
- Library
- Glossary
- Academy Marketplace

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Gradebook

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CCNP3_vt05

Class Information

Class Name: CCNP3_vt05
 Class ID: 3226917
 Course: CCNP 3: Multilayer Switching
 Version: 3.0

	Module 1 Exam	Module 2 Exam	Module 3 Exam	Module 4 Exam	Module 5 Exam	Module 6 Exam	Module 7 Exam	Module 8 Exam	Module 9 Exam	Module 10 Exam	Final Exam	Practice Certification Exam	Course Feedback	Skills Exam	Case Study	Custom Scores	Weighted Percentage	Grades	Attendance	Eligible for Certificate	Eligible for Letter	Result	
Weight (Totals 100)	7	7	7	7	7	7	7	7	7	7	7	7		7	9	0							
View Item Information	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓													
Your Score	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	-	0.0	-	-				E

Legend

(*) Regraded
 (-) Not Taken

Teaching



- **Lectures**
- **Exercises (2 hours week 38)**
- **Laborations (3 hours/week)**
 - 14 groups
 - Mandatory attendance
- **Extra laborations (3 hours/week)**
 - Without any lab instructor

Examination - Grading

- **Final Exam (2+2 credits)**
 - CCNA 1, Friday 25th of September
 - CCNA 2, Friday 23rd of October
- **Skills Exam (3.5 credits)**
 - Week 44 (26-30 October)
 - Register on laborations later
- **Laborations**
 - Attendance to qualify for the skills exam
- **50% on EACH part to pass the course**

Certificate - CNAP

Academy Connection:

- **Module Exams (self-study)**
 - To be allowed to take the final exam
- **Final Exam (CCNA 1 + 2) > 70%**
- **Skills Exam > 70%**

Schedule



- <http://www.hh.se>
- **Course web page:**
 - Link from www.hh.se/staff/maol
 - [**www.hh.se/computernetworks1**](http://www.hh.se/computernetworks1)

Schedule – lectures

- W.36 Monday 10.15-12.00: Course Introduction**
Wednesday 10.15-12.00: OSI Model, TCP/IP

- W.37 Monday 10.15-12.00: IP Addressing, Subnetting, VLSM**

- W.40 Monday 10.15-12.00: Routing, Routing Table**

- W.41 Monday 10.15-12.00: Routing Protocols**

Schedule - laborations

- W.37 Lab 1, Packet Tracer 4.0**
- W.38 Lab 2**
- W.39 Lab 3**
- W.40 Lab 4, Worksheet: Routing Table**
- W.41 Lab 5, Worksheet: VLSM**
- W.42 Lab 6**
- W.43 Self study (preparation for Skills Exam)**

Schedule - exercises

W.38 Monday 13.15-15.00 (Group 1 and 3)

Monday 15.15-17.00 (Group 4 and 5)

Tuesday 13.15-15.00 (Group 2 and 6)

Wednesday 13.15-15.00 (Group 7 and 8)

Wednesday 15.15-17.00 (Group 9 and 10)

Questions

