# IT 120 Introduction to Network Technology Syllabus
## Section 104 Spring 2024

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Classroom: GITC 1202
Office Hours: By appointment only WebEx

## COURSE DESCRIPTION

IT 120 is an introduction to the basics of networking in a modern operating system environment. Emphasis is placed on the application and management of networking technology. Topics to be covered include: the layered model, network hardware and technologies, network protocols, wired and wireless networks, and TCP/IP. This is an introductory networking course and is oriented toward freshman and sophomores.

The textbook addresses all of the objectives of the CompTIA Network+ Certification Exam. The purpose of the course is not to prepare you for the exam and you are not required to take it. However, you may be able to pass the exam with some extra preparation.

## RESOURCES

Textbook:     Mike Meyers' CompTIA Network+ Guide to Managing & Troubleshooting Networks, Sixth Edition (Exam N10-008)

ISBN:         9781264269037

The book is available for purchase on Amazon

The class web page is on Canvas (canvas.njit.edu). Quizzes, exams, notes, assignments and other technical resources will be posted on the web page.

## GRADING

Your term grade will be based on the points that you will receive on 2 exams, 2 quizzes, 4 lab assignments, 4 homework assignments and attendance. You can earn at most 1000 points.

| Assignment | Points |
|---|---|
| Midterm | 250 points |
| Final | 250 points |
| Quizzes | 100 points (2x) |
| Labs | 30 points (4x) |
| Homework | 20 points (4x) |
| Attendance | 100 points |

Grades are assigned based on the sum of points you earn (1000 total points)

| Grade | Point Range |
|---|---|
| A | > 900 |
| B+ | 850 - 899 |
| B | 800 - 849 |
| C+ | 750 - 799 |
| C | 700 - 749 |
| D | 600 - 699 |
| F | 0 - 599 |

A curve is NOT guaranteed but MAY be applied at the end of the semester based on overall class performance. I may curve up the assignments based on the overall class performance, but I will never curve down. For example, you may earn an A if you have 898 points, but you will not earn lower than a B+ if you have 850 points. I will not assign an incomplete unless there is an extraordinary circumstance.

Grades are based solely on the points you earn and are NOT negotiable. Please observe and honor the University Policy on Academic Integrity.

http://www.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf

## ATTENDANCE

Attendance is an important part of your grade. I do my best to make the lectures engaging, fun, and interesting. Since this class is an evening class and we meet once a week, attendance is mandatory. Attendance will be counted as follows:

| Missed classes | Points |
| --- | --- |
| 3 | 100 |
| 4 | 50 |
| 5 or more | 0 |

## EXAMS AND QUIZZES

All quizzes and exams are online, open book and open notes. Quizzes and exams will be available on Canvas on the day of the exam and must be taken in class, during class time. They cannot not be taken in groups. If you are not present in class for the quiz or exam, you will receive a zero.

You will be given 30 minutes to complete the quizzes and 60 minutes to complete the midterm and final. Even though the final will not officially be cumulative, it may have a few questions from the midterm depending on relevance. Make-up exams and quizzes will NOT be given unless there is a reason beyond your control AND you can provide the proper documentation. You must notify me as soon as possible.

## LAB AND HOMEWORK ASSIGNMENTS

Lab assignments are intended to be hands-on activities that we conduct on personal or lab computers. Details of the lab assignments will be given out in class and in advance based on covered topics. In this class we will use Cisco Packet Tracer for the labs.

Homework assignments are intended to help with reviewing the materials that were discussed in the most recent lecture. Make-up homework assignments will NOT be given as there is always an adequate amount of time given to complete the assignments.

The schedule at the end of the syllabus shows approximate due dates for lab and homework assignments. Due dates will also be confirmed in advance. If you are having trouble with a lab or homework please contact me via email and we can setup a WebEx call to troubleshoot any issues.

# IT 120 Introduction to Network Technology Schedule Spring 2024

| Day | Topics | Assignments |
|---|---|---|
| 1/22 | Administrative Stuff<br>Network Models | None |
| 1/29 | Cabling and Topology<br>Ethernet Basics | Read Chapters 1, 2, 3<br>**Homework 1 (ch1, ch2)** |
| 2/5 | Ethernet Standards | Read Chapter 4 |
| 2/12 | Installing a Physical Network | Read Chapter 5<br>**Homework 2 (ch4, ch5)** |
| 2/19 | TCP/IP Basics<br>**Quiz 1** | Read Chapter 6 |
| 2/26 | TCP/IP Basics<br>TCP/IP Applications | Read Chapters 6 & 8<br>**Lab 1** |
| 3/4 | Routing | Review Chapter 7<br>**Lab 2** |
| 3/11 | **Spring Break** | None |
| 3/18 | **Midterm** | Study |
| 3/25 | Network Naming | Read Chapter 9<br>**Lab 3** |
| 4/1 | Securing TCP/IP | Review Chapter 10<br>**Lab 4** |
| 4/8 | WAN Connectivity<br>IPv6 | Read Chapters 12 & 13<br>**Homework 3 (ch12, ch13)** |
| 4/15 | Switch Features<br>Wireless Networking<br>**Quiz 2** | Read Chapters 11 & 14 |
| 4/22 | Wireless Networking<br>Integrating Network Devices | Read Chapter 14 & 17<br>**Homework 4 (ch14, ch17)** |
| 4/29 | Virtualization and Cloud Computing | Read Chapter 15 |
| 5/6 | **Final** | |

## * SCHEDULE IS SUBJECT TO CHANGE!!! *

## For other important dates please see Registrar's Academic Calendar
## https://www.njit.edu/registrar/calendars