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Fall 2019

IT 120-105: Introduction to Network Technology

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IT 120 Introduction to Network Technology Syllabus
Section 105 Fall 2019

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Office Hours: By appointment only

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: Meyers, Managing and Troubleshooting Networks
              (4th Edition Exam N10-006),
              McGraw Hill, 2015
              ISBN-13: 978-0071848275 ISBN-10: 0071848274

The book is available for purchase on Amazon: http://goo.gl/C9N1zp

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, 3 Lab assignments, 4 homework assignments and attendance.

Midterm	25%	250 points
Final	25%	250 points
Quizzes	20%	2 quizzes at 100 points each
Labs	15%	3 Labs at 50 points each
Homework	10%	4 homework assignments at 25 points each
Attendance	5%	50 points

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

A	Greater than or equal to 900 points
B+	850 — 899 points
B	800 — 849 points
C+	750 — 799 points
C	700 — 749 points
D	600 — 699 points
F	0 — 599 points

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

EXAMS AND QUIZZES

All quizzes and exams are online, open book, open notes and open internet. Quizzes and exams will be available on Canvas on the day of the exam but 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 1 hour to complete quizzes and 2 hours 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. If you need to take an exam on another day please notify me before hand.

HOMEWORK

Homework assignments will be on Canvas. There will be 10 questions on each homework assignments. All homework assignments will be worth 25 points. Homework assignments are all online and are open book, open notes and open internet.

It is vital that you do every homework in order to receive a good grade in the class. Homework assignments force you to think outside of the box and help you understand the material. If you ever have any difficulties or you are stuck on the questions in anyway, you can always email me and ask for help.

If you miss a homework assignment without notifying me at least a day before its due, then there will be no make ups. If you provide a legitimate reason for not completing the homework, I may take the next grade you receive on a homework assignment, subtract 5 points and mark the result as the grade for your missed homework assignment.

LABS

Labs are intended to be hands-on activities that we conduct on personal or lab computers. I will give out the details of when the lab will take place and the content at a later date.

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:

Miss less than 3 classes	50 points
Miss between 3 and 5 classes	25 points
Miss more than 5 classes	0 points

IT 120 Introduction to Network Technology Schedule Fall 2019

Day	Topics	Assignment Due
09/09/19	Introduction to Computer Networks	Read Chapters 2 & 3
09/16/19	Physical Layer Cabling: Twisted Pair	Read Chapter 3 & 17
09/23/19	Physical Layer Cabling: Fiber Optics	Review Chapter 3 **Homework 1 Due**
09/30/19	**Quiz 1** Wireless Networks	Read Chapter 15
10/07/19	Interconnecting LANs	Read Chapters 8 & 6
10/14/19	TCP/IP	Read Chapter 7
10/21/19	Introduction to Switch Configuration	**Homework 2 Due**
10/28/19	**Midterm**	**Study**
11/04/19	Introduction to Router Configuration	**Labs 1 & 2**
11/11/19	Routing Protocols	Review Chapter 8
11/18/19	Internet Technologies: Out to the Internet	Read Chapters 9, 10, 12, & 14 **Homework 3 Due**
11/25/19	**Quiz 2** Troubleshooting	Read Chapter 21
12/02/19	Network Security	Read Chapters 18, 19, & 20 **Lab 3**
12/09/19	Cloud Computing and Virtualization	Read Chapter 16 **Homework 4 Due**
12/16/19	**Final**	**Study**

* SCHEDULE IS SUBJECT TO CHANGE!!! *

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