

Fall 2019

CPT 435-101: Network Applications for Computer Technology II

Tushar Patel

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CPT 435: Networks Applications for Computer Technology II
Fall 2019

Instructor: Tushar Patel

E-mail: tpatel@njit.edu

Class Hour: Monday 5:45PM – 9:30PM Fenster Hall 160

Office Hours: Monday's 5:00PM -5:45PM by appointment

Text Book: **(Optional)** CCNA Routing & Switching 200-125 Official Cert Guide Library – Wendell Odom
Published Jul 26, 2016 by Cisco Press. ISBN-13: 978-1587205811, ISBN-10: 1587205815

Grading: **Exam 1 25%, Exam 2- 30%, Project 25%, Assignments 10%, Technical Curiosity/Participation 10%**

Assignments: The due date for the assignments is one week after it is assigned. Grades will be deducted for delay.

Course Objectives:

Students will learn about Computer Network Advanced Fundamentals including LAN Switching, Routing, WAN Technologies. In Addition, they will be exposed to Infrastructure Services, Security and Management use cases.

Important Dates Fall 2019:

September	9	Monday	First Day of Class
September	13	Friday	Last Day to Add/Drop a Class
September	13	Friday	Last Day for 100% Refund, Full or Partial Withdrawal
September	14	Saturday	W Grades Posted for Course Withdrawal
September	16	Monday	Last Day for 90% Refund, Full or Partial Withdrawal
September	30	Monday	Last Day for 50% Refund, Full Withdrawal
October	21	Monday	Last Day for 25% Refund, Full Withdrawal
November	11	Monday	Last Day to Withdraw
December	9	Monday	Last Day of our Class
December	12	Thursday	Reading Day 1
December	13	Friday	Reading Day 2
December	14	Friday	Final Exams Begin
December	16	Wednesday	Final Exam CPT 335
December	20	Thursday	Final Exams End
December	22	Sunday	Final Grades Due

Statement on academic integrity:

“Academic Integrity is the cornerstone of higher education and is central to the ideals of this course and the university. Cheating is strictly prohibited and devalues the degree that you are working on. As a member of the NJIT community, it is your responsibility to protect your educational investment by knowing and following the academic code of integrity policy that is found at:

<http://www5.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf>.

*Please note that it is my professional obligation and responsibility to report any academic misconduct to the Dean of Students Office. **Any student found in violation of the code by cheating, plagiarizing or using any online software inappropriately will result in disciplinary action. This may include a failing grade of F, and/or suspension or dismissal from the university.** If you have any questions about the code of Academic Integrity, please contact the Dean of Students Office at dos@njit.edu”*

Lectures: Order of topics subject to change depending on class requirements

Week 1 September 9	Review of CPT 335 Concepts - Static Routing, VLANs
Week 2 September 16	Software Update, Cisco Discovery Protocol, and Remote Access, WAN interfaces
Week 3 September 23	Hardening Cisco Devices, Internet of Things
Week 4 September 30	Lab Review time
Week 5 October 7	VTP, VLANS and Trunking
Week 6 October 14	Spanning Tree Protocol
Week 7 October 21	Exam 1 – Multiple Choice and Short Answer, Introduce Project
Week 8 October 28	Network Address Translation, Redundancy
Week 9 November 4	Access Lists
Week 10 November 11	RIP v2, EIGRP
Week 11 November 18	OSPF
Week 12 November 25	Work on Project
Week 13 December 2	Project Submission
Week 14 December 9	Exam 2 – Multiple Choice and Short Answer
Week 15 December 16	TBD

Labs: Order of topics subject to change depending on class requirements

Week 1 September 9	Static Routing, Router on a Stick, VLAN
Week 2 September 16	Upgrading SW on Router, Remote Access Using Telnet, installing Serial interfaces
Week 3 September 23	Lab to Harden Cisco D Network Address Translation , Redundacy evices , IOT Lab
Week 4 September 30	Lab Review time
Week 5 October 7	VTP, VLANS and Trunking
Week 6 October 14	STP root bridge
Week 7 October 21	Exam 1 – Multiple Choice and Short Answer
Week 8 October 28	Configure NAT/PAT and HSRP
Week 9 November 4	Configure ACLs
Week 10 November 11	RIP v2, EIGRP Lab
Week 11 November 18	OSPF
Week 12 November 25	Work on Project
Week 13 December 2	Project Submission
Week 14 December 9	Exam 2 – Multiple Choice and Short Answer
Week 15 December 16	TBD