

Class Schedule – CS6250 Computer Networks - Spring 2019

Week	Date Range	Udacity Lesson	Reading	Work Assigned	Work Due	Schedule Notes
1	01/06/2019- 01/12/2019	1 - Introduction 2 - Architecture and Principles	How To Read a Paper The Design Philosophy of the DARPA Internet Protocols	Project 1 - VM Setup, Topologies, Simulating Networks		01/02 - Phase II Time Tickets 01/03-01/11 - Phase II Registration 01/07 - First Day of Classes 01/11 (4:00 PM) - Deadline for Registration/ Schedule Changes
2	01/13/2019- 01/19/2019	3 - Switching	End to End Arguments in System Design	Project 2 - Spanning Tree Protocol	Project 1 due 01/19 23:59 AOE	01/14 – Payment Deadline
3	01/20/2019- 01/26/2019	4 - Routing	BGP Routing Policies in ISP Networks		Project 2 due 01/26 23:59 AOE	01/21 – Martin Luther King Jr. Day (Official Institute Holiday)
4	01/27/2019- 02/02/2019	5 - Naming, Addressing, Forwarding	Are we there yet? 20 years of IPV6	Project 3 - Distance Vector Routing		
5	02/03/2019- 02/09/2019	5.1 - Router Design Basics 5.2 - DNS			Project 3 due 02/09 23:59 AOE	
6	02/10/2019- 02/16/2019	Review & Test 1	Test 1 Preparation Questions	Weekly Discussion Threads	Test 1 Window: 02/10 - 02/16	
7	02/17/2019- 02/23/2019	6 - Congestion Control and Streaming	CUBIC Congestion Control TCP Fast Open	Project 4 - TCP Fast Open		

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8	02/24/2019-03/02/2019	7 - Rate Limiting and Traffic Shaping	Sizing Router Buffers Controlling Queue Delay	Project 5 - Congestion Control and Buffer Bloat	Project 4 due 03/02 23:59 AOE	
9	03/03/2019-03/09/2019	8 - Content Distribution			Project 5 due 03/09 23:59 AOE	03/07 - Schedule of Classes Available Online for all Summer Sessions
10	03/10/2019-03/16/2019	Review & Test 2	Test 2 Preparation Questions	Weekly Discussion Threads	Test 2 Window: 03/10 - 03/16	03/13 4:00 PM - Withdrawal Deadline
11	03/17/2019-03/23/2019	9 - Software Defined Networking 9.1 - Programming SDNs	The Road to SDN: An Intellectual History of Programmable Networks Modular SDN Programming with Pyretic	Project 6 - SDN Firewall		03/18-03/22 - Spring Break
12	03/24/2019-03/30/2019	10 - Traffic Engineering	Jellyfish Portland		Project 6 due 03/30 23:59 AOE	03/25 – Registration all Summer Sessions
13	03/31/2019-04/06/2019	11 - Network Security	ASwatch: An AS Reputation System to Expose - Bulletproof Hosting ASes How Secure are Secure Interdomain Routing Protocols	Project 7 - BGP Hijacking Attacks + Extra Credit Project Section		
14	04/07/2019-04/13/2019	11.1 - Internet Worms 11.2 - Spam 11.3 - Denial of Service Attacks	Hold-On: Protecting Against On-Path DNS Poisoning Crossfire Attack			

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15	04/14/2019- 04/20/2019				Project 7 and Extra Credit Project Section due 04/20 23:59 AOE	
16	04/21/2019- 04/27/2019	Review & Test 3	Test 3 Preparation Questions	Weekly Discussion Threads	Test 3 Window: 04/21 - 04/27	04/22-04/23 – Final Instruction Days 04/25-05/02 – Final Exams
17	04/28/2019- 05/04/2019	Course Feedback				04/25 – 05/02 – Final Exams 05/04 – End of Term 05/06 – Grade Submission Deadline 05/07 – Grades Available

Lesson Transcripts

Student-compiled transcripts for the videos can be found in Canvas under **Files**.

Project Instructions

Projects will be released and turned in via Canvas. The project description, instructions for completion, and instructions for turn-in will be posted in the **Assignments** Section on Canvas.

Test Preparation Question

Test preparation questions are ungraded. They are available through the Canvas under the **Files** section. Feel free to discuss these questions on Piazza with your fellow classmates. Solutions will be posted the week of their associated testing window to help you study the model answers.