Class Schedule - Summer 2018

Week #	Date Range	Lesson	Reading	Task Assigned	Task Due Date	Schedule Notes
1	5/14/2017-	1 - Introduction	How To Read a Paper (Optional)	P1 - VM Setup,		
	5/20/2017	2 - Architecture and	Design Philosophy of DARPA	Topologies,		
		Principles	Internet Protocols	Simulating Networks		
2	5/21/2017-	3 – Switching	End to End Arguments in System	P2 - Spanning Tree	P1 - 5/26 23:59 AOE	
_	5/27/2017	4 – Routing	Design	Protocol	7 7 6/20 20:00 /102	
	0/21/2011	4 Rodding	BGP Routing Policies in ISP Networks	Trotocol		
3	5/28/2017-	5 - Naming,	Are we there yet? 20 years of		P2 - 6/2 23:59 AOE	
	6/3/2017	Addressing, Forwarding	IPV6 (Optional)			
		5.1 - Router Design				
		Basics				
		5.2 - DNS				
4	6/4/2017-	Test 1	Test 1 Preparation Questions	Discussion Thread 1	Test 1 window: 6/4 - 6/9	
	6/10/2017					
5	6/11/2017-	6 - Rate Limiting and	Sizing Router Buffers	P3 - Congestion Control		
	6/17/2017	Traffic Shaping	(Sections 1-4)	and Buffer Bloat		
			Controlling Queue Delay			

6	6/18/2017-	7 - Congestion Control	CUBIC Congestion Control		P3 - 6/23 23:59 AOE	
	6/24/2017	and Streaming	(Sections 1-3, 5)			
			TCP Fast Open			
			(Sections 1-4, 6-7)			
			Application Flow Control in			
			YouTube Video Streams			
			MPTCP (Video)			
7	6/25/2017-	8 – Content Distribution	Jellyfish (Skip sections:	P4 - SDN Firewall		Withdrawal deadline:
	7/1/2017	9 - Software Defined	4.2.LEGUP, 6.2-6.3)			6/30
		Networking	Portland			
			(Skip sections 3.7, 4)			
			The Road to SDN: An Intellectual			
			History			
			of Programmable Networks			
8	7/2/2017-	9.1 - Programming	Modular SDN Programming with	Discussion Thread 2	P4 - 7/7 23:59 AOE	
	7/8/2017	SDNs	Pyretic			
		10 - Traffic Engineering				
9	7/9/2017-	11 - Network Security	BGP and Bulletproof Hosting	P5 - BGP Hijacking		
	7/15/2017		Networks	Attacks + Extra Credit		
				Project		
			How Secure are Secure			
			Interdomain Routing Protocols			

10	7/16/2017-	11.1 - Internet Worms	Hold-On: Protecting Against On-	Discussion Thread 3	P5 + Extra Credit Project	
	7/22/2017	11.2 - Spam	Path DNS Poisoning		7/21 23:59 AOE	
		11.3 - Denial of Service				
		Attacks	Crossfire Attack			
11	7/23/2017-	Test 2	Test 2 Preparation Questions		Test 2 window: 7/26 - 8/2	Final Instructional
	7/29/2017					Days:
						23-24 July
						Finals week:
						26 July – August 2
12	7/30/2017-	Course Feedback				August 6: Grades Due
	8/5/2017					

Lesson Transcripts

Transcripts for the videos can be found here.

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 on Canvas.

Test Preparation Questions

Test preparation questions are ungraded. They are available through the Canvas. 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.