Week	Topic/Lecture	Date	Papers for Review	Other Helpful Resources	Project and Assignments	Slides
1	Course introduction	8/23/2023 (Wed)		How to read a paper		
2	Traditional networks and SDN	8/28/2023 (Mon)	The Evolution of Network Configuration: A Tale of Two Campuses	Quagga BGP example Unraveling the Complexity of Network Management		
		8/30/2023 (Wed)	OpenFlow: Enabling Innovation in Campus Networks	The Road to SDN: An Intellectual History of Programmable Networks	Assignment #1 given	
3	Programmable networks and P4	9/4/2023 (Mon)	P4: Programming Protocol-Independent Packet Processors			
		9/6/2023 (Wed)	The P416 Programming Language (Read, but no need to write review)			
4	Network virtualization	9/11/2023 (Mon)	No Class			
		9/13/2023 (Wed)	The Design and Implementation of Open vSwitch		Assignment #1 due Assignment #2 given	
5	Network Operating Systems	9/18/2023 (Mon)	NOX: Towards an Operating System for Networks			
	Data Centers and SDN - 1	9/20/2023 (Wed)	Jupiter Rising: A Decade of Clos Topologies and Centralized Control in Google's Datacenter Network			
6	Data Centers and SDN - 2	9/25/2023 (Mon)	HULA: Scalable Load Balancing Using Programmable Data Planes		Project proposals due	
	Wide Area Networks (WAN) and SDN - 1	9/27/2023 (Wed)	Achieving High Utilization with Software-Driven WAN			
7	Wide Area Networks	10/2/2023 (Mon)	No class (reading days)			

10/4/2023	SDX: A Software Defined		Assignment #2	
(Wed)	Internet Exchange		due	
10/9/2023 (Mon)	Bitcoin against Routing			
10/11/2022	NetHide: Secure and			
(Wed)	Practical Network			
	Topology Obfuscation			
10/16/2023 (Mon)	No paper to review		Short update on project from each team	
10/18/2023 (Wed)	NetCache: Balancing			
	Key-Value Stores with			
	Fast In-Network Caching			
10/23/2023 (Mon)	Continuous In-Network			
	Monitoring			
10/25/2023 (Wed)	-			
	Measurement of Zoom			
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10/30/2023				
(Mon)				
	Monitoring			
/. /2.22	Sonata: Query-Driven			
(Wed)				
	Telemetry			
11/6/2023 (Mon)				
	Programmable Data			
11/8/2023	Hydra: Effective Runtime			
(Wed)	Network Verification			
11/13/2023				
(Mon)	Thomsolves			
11/15/2023 (Wed)	Learning in situ: a			
	randomized experiment			
	in video streaming			
11/20/2023 (Mon)				
	Computing			
11/22/2023 (Wed)	No class (Thanksgiving)			
	Using Deep			
11/27/2023	Programmability to Put			
(Mon)	Network Owners in			
	<u>Control</u>			
	.0/9/2023 Mon) .0/11/2023 Wed) .0/16/2023 Mon) .0/18/2023 Wed) .0/23/2023 Mon) .0/25/2023 Wed) .1/1/2023 Wed) .1/1/2023 Wed) .1/13/2023 Mon) .1/15/2023 Wed) .1/15/2023 Wed) .1/20/2023 Mon) .1/20/2023 Mon) .1/20/2023 Mon)	Mon) SABRE. Protecting Bitcoin against Routing Attacke NetHide: Secure and Practical Network Topology Obfuscation 1.0/16/2023 Mon) No paper to review NetCache: Balancing Key-Value Stores with Fast In-Network Caching 1.0/23/2023 Mon) Continuous In-Network Round-Trip Time Monitoring Enabling Passive Measurement of Zoom Performance in Production Networks 1.0/30/2023 Mon) Mon) Sonata: Query-Driven Streaming Network Telemetry Petv. Practical Network Verification Verification for Programmable Data Plance 1.1/8/2023 Mon) Network Verification Verification Very Tractical Verification Very Tractical Very Tractical Very Tractical Verification for Mon) Programmable Data Plance Learning in situ: a randomized experiment in video streaming Accelerating Distributed Reinforcement Learning Mon) 1.1/20/2023 Mon) Very Grammability to Put Network Owners in	Included Street	Mon

	and Ju	11/29/2023 (Wed)	Building Flexible, Low- Cost Wireless Access Networks With Magma		
16	Project presentations	12/4/2023 (Mon)		Project presentations due	
		12/6/2023 (Wed)			
17	Due dates	12/11/2023 (Mon)			
		12/13/2023 (Wed)		Project reports due	