

Schedule

IST220.003 Networking and Telecommunications

Syllabus	Schedule
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Note:

1. Schedule is subject to change.
2. Penn State Fall 19 [Schedule](#).

Week	Date	Lecture	Pre-Class Reading	Slides	Homework Assignments	Group Research / Lab Assignments
1	8/26	Course introduction		week1-1.pptx		
	8/28	Network models (Ch. 1)	Ch. 1	week1-2.pptx		
	8/30	Network models, Internet applications (Ch. 3)	Ch. 3.1 – 3.12	week1-3.pptx		
2	9/2	Labor Day – No Class				
	9/4	Internet applications (Ch. 4)	Ch. 4.1 – 4.23	see above		
	9/6	Internet applications (Ch. 4), <i>Group research assignment 1</i>	Ch. 4.1 – 4.23	week2-3.pptx		Research assignment 1
3	9/9	Data communications (Ch. 5 & 6)	Ch. 5, Ch. 6.1-6.9	week3-1.pptx week3-1-draw.pptx SquareWaveFourier.xlsx		
	9/11	Information sources and signals (Ch. 6)	Ch. 6.10-6.13, 6.17-6.19	week3-2.pptx		
	9/13	<i>Group research assignment 1</i>			Homework Assignment 1	Group research assignment 1 due on 9/15 at 11:59pm
4	9/16	Transmission media (Ch. 7)	Ch. 7	week4-1.pptx		
	9/18	Reliability and Channel Coding (Ch. 8)	Ch. 8.1 – 8.12	week4-2.pptx		
	9/20	<i>Midterm 1 Review</i>		Midterm1-review.docx	Homework 1 due on 9/20 at 11:59pm	
5	9/23	Preparation for midterm – No class				

	9/25	Midterm 1				
	9/27	<i>Group research assignment 2</i>		report-1-comment.pptx		Research assignment 2
6	9/30	Modulation and modems (Ch. 10)	Ch. 10	week6-1.pptx week6-1-exercise.pptx		
	10/2	Modulation and modems (Ch. 10)		see above		
	10/4	<i>Group research assignment 2</i>				Research assignment 2 due on 10/4 at 11:59pm
7	10/7	Multiplexing and demultiplexing (Ch. 11)	Ch. 11	week7-1.pptx week7-1-exercise.pptx		Lab assignment 1
	10/9	LAN topologies (Ch. 13)	Ch. 13	week7-2.pptx		
	10/11	<i>Lab assignment 1</i>				Lab assignment 1 due on 10/13 at 11:59pm
8	10/14	LAN topologies (Ch. 13)		number.pptx week8-1.pptx		Lab assignment 2
	10/16	LAN topologies (Ch. 13)		See above		
	10/18	<i>Lab assignment 2</i>			Homework assignment 2	
9	10/21	Wired LAN (Ch. 15)	Ch. 15	week9-1.pptx		Lab assignment 2 due on 10/21 at 11:59pm Research assignment 3
	10/23	LAN Extensions (Ch. 17)	Ch. 17	week9-2.pptx		
	10/25	<i>Midterm 2 Review</i>		Midterm2-review.docx	Homework 2 due on 10/25 at 11:59pm	
10	10/28	Preparation for midterm – No class				
	10/30	Midterm 2				
	11/1	<i>Group research assignment 3</i>				
11	11/4	WAN (Ch. 18)	Ch. 18	week11-1.pptx week11-1-exercise.pptx		
	11/6	Internetworking Concepts (Ch. 20) Internet and IP addressing (Ch. 21)	Ch. 20 Ch. 21	week11-2.pptx week11-2-exercise.pptx		

	11/8	<i>Lab assignment 3</i>				Lab assignment 3
12	11/11	Internet and IP addressing (Ch. 21)		see above		
	11/13	Datagram forwarding (Ch. 22)	Ch. 22			
	11/15	<i>Lab assignment 3</i>				<p>Research assignment 3 due on 11/15 at 11:59pm</p> <p>Lab assignment 3 due on 11/17 at 11:59pm</p>
13	11/18	Datagram forwarding (Ch. 22)				
	11/20	Support Protocols and Technologies(Ch. 23)	Ch. 23.1-23.7, 23.13-23.17			
	11/22	<i>Lab assignment 4</i>				
14	11/24-30	Thanksgiving Holiday - No Classes				
15	12/2	Transport layer protocol / UDP (Ch. 24)	Ch. 24			
	12/4	TCP (Ch. 25)	Ch. 25			
	12/6	<i>Lab assignment 5</i>				
16	12/9	Final review				
	12/11	Q&A				
	12/13	Q&A				
17	12/16	Final Exam: 6:50 PM - 8:40 PM (262 Willard Bldg)				