

Spring AY20 SY488A Course Syllabus

Revised

Week	Day	Date	Topic	Reading	HW
10	Fri	20-Mar-20	Smartphone Tech		
11	Mon	23-Mar-20	GSM	Global System for Mobile Communication (GSM)	
11	Tues	24-Mar-20	No Class		
11	Wed	25-Mar-20	GSM	3G/UMTS Toward mobile broadband and personal Internet	
11	Thur	26-Mar-20	Work on Projects		
11	Fri	27-Mar-20	GSM	Investigating vulnerabilities in GSM security	
12	Mon	30-Mar-20	GSM	Let Me Answer That For You: Exploiting Broadcast Information in Cellular Networks	
12	Tues	31-Mar-20	No Class		
12	Wed	1-Apr-20	LTE	Long Term Evolution Protocol Overview	
12	Thur	2-Apr-20	Work on Projects		
12	Fri	3-Apr-20	LTE	The LTE Network Architecture	
13	Mon	6-Apr-20	LTE	Vulnerability by Design in Mobile Network Security	
13	Tues	7-Apr-20	No Class		
13	Wed	8-Apr-20	WiFi	IEEE 802.11ax: The Sixth Generation of Wi-Fi	
13	Thur	9-Apr-20	Work on Projects		
13	Fri	10-Apr-20	WiFi		
14	Mon	13-Apr-20	PLMN	Network Sharing in LTE	
14	Tues	14-Apr-20	No Class		
14	Wed	15-Apr-20	Evolved Packet Core	The Evolved Packet Core	
14	Thur	16-Apr-20	Work on Projects/View Small Group Projects		
14	Fri	17-Apr-20	Mobile Logical Channels	LTE Tutorials: Logical Channels	
15	Mon	20-Apr-20	Mobile Registration Procedures	The Mandatory Registration of Prepaid SIM Card Users	
15	Tues	21-Apr-20	No Class		
15	Wed	22-Apr-20	Group Projects		
15	Thur	23-Apr-20	Group Projects		
15	Fri	24-Apr-20	Mobile Protocols and Identifiers Mobile and Location-based Services	Intro to SS7 Signaling	
16	Mon	27-Apr-20	Review		
16	Tues	28-Apr-20	No Class		

16	Wed	29-Apr-20	Review and Study Day (No Class)		None
16	Thur	30-Apr-20	Exam Day 1		
16	Fri	1-May-20	Exam Day 2		
16	Sat	2-May-20	Exam Day 3		
17	Mon	5-May-20	Exam Day 4		
17	Tues	6-May-20	Exam Day 5		
17	Wed	6-May-20	Exam Day 6		
17	Thur	7-May-20	Exam Day 7		