

**University of Pittsburgh**  
**Telecommunications and Networking Program**

**MST PLAN OF STUDIES**  
**For students admitted September 2008 and beyond**

Student Name \_\_\_\_\_

Undergraduate Major \_\_\_\_\_

Expected MST Graduation Date \_\_\_\_\_

Phone (work) \_\_\_\_\_

Phone (cell) \_\_\_\_\_

Full-Time Student [ ] Part-Time [ ]

Available for classes in the Morning [ ] Afternoon [ ] Evening [ ]

**MST PLAN OF STUDIES (37 credits required)**

COURSES (3 credits unless otherwise specified)	PREREQUISITES	DATE PLANNED	DATE COMPLETED
<b>Required Courses (13 credits required)</b>			
TELCOM 2010 Computer Networking Lab			
TELCOM 2011 Telecommunications Seminar (1 credit)			
TELCOM 2120 Network Performance	TELCOM 2000/2100, calculus, probability, progr		
TELCOM 2210 Physical Layer of Communications 2	calculus		
TELCOM 2310 Computer Networks	TELCOM 2000/2100, 2300; Co-Req 2200		
<b>Management and Policy Group (3 credits required) (Additional Business Courses can be used subject to approval)</b>			
TELCOM 2122 Telephone System Management	TELCOM 2000/2100		
TELCOM 2400 Accounting & Finance for Telecom	Co-Req: TELCOM 2000/2100		
TELCOM 2411 Inf Technology in Organizations	Co-Req: TELCOM 2000/2100		
TELCOM 2512 Information Policy			
TELCOM 2520 Telecom Industry and Regulation	TELCOM 2000/2100		
BUSMIS 1630 Project Management			
BUSMIS 2586 IS Planning			
BUSMIS 2537 Business System Platforms			
<b>Electives (21 credits are required from the Electives and Directed Study Groups)</b>			
<b>Networking</b>			
TELCOM 2110 Network Design	TELCOM 2000/2100		
TELCOM 2121 Network Management	TELCOM 2000/2100		
TELCOM 2130 Queuing Theory	TELCOM 2120, 2310		
<b>Communication Systems</b>			
TELCOM 2222 Photonic Communications			
TELCOM 2225 Switching Systems	Co-Req: TELCOM 2210		
TELCOM 2227 Internet Telephony	TELCOM 2000/2100, 2200		
<b>Computer Communications</b>			
TELCOM 2320 Local Area Networks	TELCOM 2310; Co-Req: TELCOM 2120		
TELCOM 2321 Wide Area Networks	TELCOM 2310; Co-Req: TELCOM 2120		
TELCOM 2326 Distributed Databases	TELCOM 2300, INFSCI 2710, adv standing		
<b>Wireless Telecommunications</b>			
TELCOM 2710 Foundations of Wireless Comm	TELCOM 2210		
TELCOM 2720 Cellular and Wireless Networks	TELCOM 2210		
TELCOM 2721 Mobile Data, Ad Hoc and Sensor Ntwrks	TELCOM 2210		
TELCOM 2725 Code Division Multiple Access	TELCOM 2710		
TELCOM 2727 Applic Development for Mobile Devices	TELCOM 2700, Java or other structured progr. lang		

<b>COURSES (3 credits unless otherwise specified)</b>	<b>PREREQUISITES</b>	<b>DATE PLANNED</b>	<b>DATE COMPLETED</b>
<b>Telecommunications Security</b>			
TELCOM 2810 Intro to Security	op systems, data structures, databases, math logic		
TELCOM 2813 Security Management	TELCOM 2810/2821, programming language		
TELCOM 2820 Cryptography	TELCOM 2000/2100, 2810/2820		
TELCOM 2821 Network Security	TELCOM 2000/2100, 2810/2820		
TELCOM 2825 Info Sys & Network Infrastructure Protection	TELCOM 2000/2100, 2810/2820		
<b>Human Communications</b>			
INFSCI 2000 Intro to Information Science			
TELCOM 2611 Organizational Behavior	Co-Req: TELCOM 2000/2100		
INFSCI 2300 Human Information Processing			
INFSCI 2470 Interactive System Design	INFSCI 2300, INFSCI 2710, C		
<b>Suggested Electives</b>			
INFSCI 2550 Client-Server Systems	TELCOM 2300 or C and Unix, INFSCI 2500 (2610)		
INFSCI 2560 Web Technologies and Standards			
INFSCI 2710 Database Management	INFSCI 2500		
INFSCI 2711 Advanced Topics in Database Mgmt	INFSCI 2710		
ECE 2523 Digital Signal Processing			
ECE 3524 Digital Speech Processing			
ECE 3422 Information Theory			
LIS 2690 Information Visualization			
CS 2310 Software Engineering			
CS 3350 Modeling and Simulation			
CS 2530 Computer and Network Security			
<b>Other Electives (with the approval of their advisor, students may take up to 6 credits of any relevant graduate courses offered by another accredited university)</b>			
<b>Directed Study -- variable credits -- (21 credits are required from the Electives and Directed Study groups)</b>			
TELCOM 2921 Indep Study in Networking			
TELCOM 2922 Indep Study in Communication Sys			
TELCOM 2923 Indep Study in Computer Comm			
TELCOM 2924 Indep Study in Telecom Admin			
TELCOM 2925 Indep Study in Telecom Econ & Pol			
TELCOM 2926 Indep Study in Human Comm			
TELCOM 2927 Indep Study in Wireless Networks			
TELCOM 2928 Indep Study in Security			
TELCOM 2931 Special Topics in Networking			
TELCOM 2932 Sp Topics in Communication Sys			
TELCOM 2933 Special Topics in Computer Comm			
TELCOM 2934 Sp Topics in Telecom Admin			
TELCOM 2935 Sp Topics in Telecom Econ & Pol			
TELCOM 2936 Special Topics in Human Comm			
TELCOM 2937 Special Topics in Wireless			
TELCOM 2938 Special Topic in Telcom Security			
TELCOM 2940 Practicum	advanced standing		
TELCOM 2941 Master's Thesis	advanced standing		
<b>Courses labeled Independent Study or Practicum will count toward the 21 credits of electives called for in the MST Program of Study. To enroll in any of the above, you must have permission of your advisor to ensure that you're prepared for the subject matter and the recommended timing of taking such courses. Students are limited to six credits of directed study unless they have permission of their advisor to take more classes in this area.</b>			