

MST NETWORKING—PLAN OF STUDY

SCHOOL OF COMPUTING AND INFORMATION

Student Name: _____

Advisor Name: _____

PeopleSoft ID: _____

MST Specialization: Computer Networks (MSTNET-TR or CMPNWK-TR)

Pitt E-mail: _____@pitt.edu

Entry Term: Fall 20____ Spr 20____ Sum 20____

Home E-mail: _____

Graduation Term: Fall 20____ Spr 20____ Sum 20____

ACADEMIC AREAS	CREDITS REQUIRED	COURSES	CREDITS COMPLETED	INTENDED TERM OR EARNED GRADE	COURSE OPTIONS, TRANSFER CREDITS AND/OR APPROVED EXCEPTIONS
Required Core Courses	19 credits	TELCOM 2010			CROSS-LISTED: INFSCI 1079
		TELCOM 2011			
		TELCOM 2100			
		TELCOM 2120			
		TELCOM 2310			CROSS-LISTED: INFSCI 1071, MAY BE REPLACED WITH ELECTIVE COURSE IF STUDENT HAS COMPLETED AN EQUIVALENT COMPUTER NETWORKS COURSE
		TELCOM 2700			CROSS-LISTED: INFSCI 1072
		TELCOM 2810			CROSS-LISTED: INFSCI 2150
Management & Policy	3 credits				CHOOSE: BUSBIS 1630, OR BMIS 2551 (2551 PREFERRED)
Electives	15 credits				SUGGESTED ELECTIVES*: TELCOM 2215, 2721; TELCOM 2125 / INFSCI 2125, TELCOM 2321 / CS 2520, TELCOM 2326 / INFSCI 2711; INFSCI 2550, 2560, 2710 AND/OR CLASSES LISTED IN THE NETWORKING OR COMPUTER COMMUNICATIONS SECTIONS
Total credits = (37 credits required for graduation)				QPA = (Minimum 3.0)	

*You may choose classes from outside of the list of recommended courses and are encouraged to discuss your options with your academic advisor.

OFFICE USE ONLY	
Admissions Provisions & Waivers (check if waived or provision completed)	<input type="radio"/> English Language <input type="radio"/> Calculus <input type="radio"/> Probability <input type="radio"/> Programming <input type="radio"/> Intro to Tele / 2000
Advanced Standing	Total credits (6 max): _____ Credits transferred? <input type="radio"/> Yes Initials: _____
Grading & Program Policies	Total credits "S" Grade (6 max): _____ Individual course grades "C" or better: <input type="radio"/> Yes Total credits of exceptions (9 max): _____
Graduation Certification	Faculty Signature: _____ Date: _____

MST COURSE INDEX & POLICIES

Admissions provisions and pre-requisites must be completed in addition to the 37 credits required for graduation.

- Admissions provisions are unique to each student and, if applicable, are stated in your offer of admission
- Each specialization may have specific pre-requisites. These are listed in the "OFFICE USE ONLY" area of the plan of study.

Program policies, grading policies, and registration help (permission numbers) are available on the Academics section of the School's intranet.

Enrollment Requirements: Pre-Requisite (PREQ) must be completed before enrolling in a class | Co-requisite (CREQ) must be completed in the same or previous term as a class.

Course descriptions and frequency of course offerings:

- Courses marked with an asterisk (*) are not offered on a regular basis.
- Annual and term-by-term course schedules are available on the School's Web site.
- Course descriptions are available on the University's Catalog webpage (select "Display course offerings" for your program).

COURSES (3 CREDITS PER CLASS UNLESS OTHERWISE SPECIFIED)		ENROLLMENT REQUIREMENTS AND/OR CROSS-LISTED COURSES
NON-MAJOR		
TELCOM 2000	Introduction to Telecommunications	Cross-listed with INFSCI 1070
NETWORKING		
TELCOM 2011	Telecommunications Seminar (1-credit)	
TELCOM 2100	Fundamentals of Telecommunications	
TELCOM 2110*	Network Design	PREQ: TELCOM 2000 or 2100 or INFSCI 1070
TELCOM 2120	Network Performance	PREQ: TELCOM 2000 or 2100 or INFSCI 1070
TELCOM 2121*	Network Management	PREQ: TELCOM 2000 or 2100 or INFSCI 1070
TELCOM 2125	Network Science & Analysis	Cross-listed with INFSCI 2125
TELCOM 2130*	Queuing Theory	PREQ: (TELCOM 2120 & 2310)
COMMUNICATION SYSTEMS		
TELCOM 2215	Unified Communications	
COMPUTER COMMUNICATIONS		
TELCOM 2010	Computer Networking Laboratory	Cross-listed with INFSCI 1079
TELCOM 2310	Applications of Networks	Cross-listed with INFSCI 1071, PREQ: (TELCOM 2000 or 2100 or INFSCI 1070)
TELCOM 2321	Wide Area Networks	Cross-listed with CS 2520, PREQ: (INFSCI 1071 or TELCOM 2310) & TELCOM 2100; CREQ: TELCOM 2120
TELCOM 2326	Adv Topics in Database Management	Cross-listed with INFSCI 2711, PREQ: INFSCI 2710
ECONOMICS AND POLICY		
TELCOM 2515	Information Ethics	Cross-listed with INFSCI 2210 and LIS 2194
WIRELESS COMMUNICATIONS AND NETWORKS		
TELCOM 2700	Introduction to Wireless Networks	Cross-listed with INFSCI 1072, PREQ: (TELCOM 2000 or 2100 or INFSCI 1070)
TELCOM 2710	Foundations Of Wireless Communications	
TELCOM 2721	Mobile Data, Ad Hoc & Sensor Networks	
TELCOM 2727	Application Development For Mobile Devices	Cross-listed with INFSCI 1073, PREQ: Object-oriented programming w/Java (INFSCI 0017); and HTML and JavaScript (INFSCI 1052)
TELECOMMUNICATIONS SECURITY		
TELCOM 2810	Information Security & Privacy	Cross-listed with INFSCI 2150
TELCOM 2811	Hacking For Defense	Cross-listed with ME 2811 & ENGR 2811
TELCOM 2813	Security Management & Computer Forensics	Cross-listed with INFSCI 2621, PREQ: (TELCOM 2810 or 2821 or INFSCI 2150)
TELCOM 2820	Cryptography	Cross-listed with INFSCI 2170, PREQ: (TELCOM 2000 or 2100 or INFSCI 1070)
TELCOM 2821	Network Security	PREQ: (TELCOM 2810 or 2820 or INFSCI 2150) & (TELCOM 2000 or 2100 or IS 1070)
TELCOM 2825	Info Sys & Ntwk Infrastructure Protection	PREQ: (TELCOM 2000 or 2100 or 2810 or INFSCI 1070 or 2150)
TELCOM 2829*	Advanced Cryptography	PREQ: (TELCOM 2820 or INFSCI 2170)
TELCOM 2830*	Capstone In Security	PREQ: (TELCOM 2810 or INFSCI 2150) & TELCOM 2821
INDEPENDENT STUDIES (variable credits, 1-3)		

MST COURSE INDEX & POLICIES

TELCOM 2921	Ind Study: Networking	Permission of faculty advisor
TELCOM 2922	Ind Study: Communication Systems	Permission of faculty advisor
TELCOM 2923	Ind Study: Computer Communication	Permission of faculty advisor
TELCOM 2924	Ind Study: Telecom Administration	Permission of faculty advisor
TELCOM 2925	Ind Study: Telecom Economics & Policy	Permission of faculty advisor
TELCOM 2926	Ind Study: Human Communication	Permission of faculty advisor
TELCOM 2927	Ind Study: Wireless Communication	Permission of faculty advisor
TELCOM 2928	Ind Study: Security Assured Info Systems	Permission of faculty advisor
SPECIAL TOPICS		
TELCOM 2931	ST: Networking	
TELCOM 2931*	ST: Networking – INTERNET OF THINGS	
TELCOM 2932	ST: Communication Systems	
TELCOM 2933	ST: Computer Communication	
TELCOM 2934	ST: Telecommunications Administration	
TELCOM 2935	ST: Telecom-Economics & Policy	
TELCOM 2936	ST: Wireless	
TELCOM 2937	ST: Wireless Networks	
TELCOM 2938	ST: Telecommunications Security	
PRACTICAL EXPERIENCE		
TELCOM 2940	Practicum	Permission of faculty advisor
TELCOM 2941	Master's Thesis (3 or 6 –credits)	Permission of faculty advisor
Preapproved course options offered throughout the University		
Dept of Informatics & Networked Systems – Permission from instructor required to override enrollment requisites		
INFSCI 2140	Information Storage and Retrieval	
INFSCI 2160	Data Mining	PREQ: INFSCI 2020 with B+ or better or Analytics Exam
INFSCI 2300	Human Information Processing	Cross-listed with ISSP 2221
INFSCI 2430	Social Computing	Cross-listed with ISSP 2430
INFSCI 2470	Interactive System Design	
INFSCI 2540	Software Engineering	
INFSCI 2550	Client-Server Systems	PREQ: INFSCI 2500
INFSCI 2560	Web Technologies and Standards	
INFSCI 2620	Developing Secure Systems	PREQ: INFSCI 2150 or TELCOM 2810
INFSCI 2710	Database Management	CREQ: INFSCI 2500 or INFSCI 2500 Exemption
INFSCI 2731	Security in E-Commerce	PREQ: 2560 & CREQ: INFSCI 2150 or TELCOM 2810
INFSCI 2750	Cloud Computing	PREQ: TELCOM 2000 and (INFSCI 2500 or INFSCI 2500 Exemption)
INFSCI 2801	Geospatial Information Systems (GIS)	
INFSCI 2802	Location-based Services	
Katz Graduate School of Business – Permission from Katz Grad School Admin to enroll		
BMIS 2034	Information Systems Planning	
BMIS 2537	Business Systems Platforms	
BMIS 2551	Project Mgmt Concepts & Processes	Only available to TELCOM students in Spring term
College of Business Administration – Permission from CBA Admin to enroll		
BUSBIS 1630	Project Management	
Dept of Computer Science – Rules for overriding enrollment requisites vary depending on the class, see website for details.		
CS 2310	Software Engineering	
CS 2530	Computer & Network Security	
CS 2750	Machine Learning	
Dept of Electrical and Computer Engineering – Permission from instructor required to enroll		
ECE 1710	Power Distribution Sys Engr & Smart Grids	PREQ: ECE 0031 or COE 0031
ECE 2521	Analysis of Stochastic Processes	
ECE 2523	Digital Signal Processing	
ECE 2671	Optimization Methods	