

**University of Pittsburgh
School of Information Sciences**

MSIS PLAN OF STUDIES

Student Name _____

Undergraduate Major _____

Expected MSIS Graduation Date _____

E-Mail Address _____

Full-Time Student [] Part-Time []

PREREQUISITES - One 3-credit course from each area listed below (9 credits total) or equivalent experience. All prerequisite courses are in addition to the 36 credits required for the degree.

Area	Course Name & Number	School	Date
Mathematics	_____		
Statistics (or comparable coursework)	_____		
Structured Programming Language (C or C++ recommended)	_____		

MSIS PLAN OF STUDIES (36 credits required)

COURSES (3 credits unless otherwise specified)	PREREQUISITES	DATE PLANNED	DATE COMPLETED
Foundations (6 credits required) INFSCI 2000 required unless exempted by advisor			
INFSCI 2000 Introduction to Information Science	Less than 12 grad credits or permission of the instructor		
INFSCI 2020 Mathematical Foundations for Information Science			
INFSCI 2040 Research Design			
INFSCI 2060 Statistics in Information Science			
INFSCI 2120 Information & Coding Theory			
INFSCI 2130 Decision Anal & Decision Support	Also meets cognitive requirement		
INFSCI 2135 Probabilistic Methods of Computer-based Decision Support	Permission of instructor		
INFSCI 2140 Information Storage & Retrieval			
INFSCI 2150 Introduction to Security	TELCOM 2000 or equivalent, or permission of Instructor		
INFSCI 2160 Data Mining			
TELCOM 2130 Queuing Theory	TELCOM 2120, 2310		
INFSCI 2170 Cryptography			
INFSCI 2180 Knowledge Representation and the			
INFSCI 2910 Indep Study (Foundations)	permission of fac advisor & fac sponsor		
INFSCI 2915 Spec Topics (Foundations)			
Profession (no minimum requirement)			
INFSCI 2210 Information Ethics			
INFSCI 2220 Information Policy			
INFSCI 2821 Intro to Biomedical Informatics	Permission of instructor		
LIS 2184 Legal Issues in Information Handling			
TELCOM 2420 Project Management	Advanced standing		
TELCOM 2510 US Telecommunications Policy	TELCOM 2000/2100		
INFSCI 2980 Practicum	18 credits and permission of advisor		
Cognitive Science (6 credits required) INFSCI 2300 recommended			
INFSCI 2300 Human Information Processing <i>Not open to students who have taken INFSCI 1042</i>			
INFSCI 2350 Human Factors in Systems			
INFSCI 2930 Indep Study (Cognitive Sci)	permission of fac advisor & fac sponsor		
INFSCI 2935 Spec Topics (Cognitive Sci)			

COURSES (3 credits unless otherwise specified)	PREREQUISITES	DATE PLANNED	DATE COMPLETED
Cognitive Science & Systems These courses meet the systems or cognitive requirement with permission of the advisor			
INFSCI 2410 Intro to Neural Networks			
INFSCI 2420 Natural Language Processing	INFSCI 2300, 2500		
INFSCI 2430 Social Computing			
INFSCI 2440 Artificial Intelligence	INFSCI 2300, 2500		
INFSCI 2460 Spatial Reasoning for GIS			
INFSCI 2470 Interactive System Design			
INFSCI 2480 Adaptive Information Systems			
Systems and Technology (18 credits including INFSCI 2500 unless equivalent has been taken)			
Systems and Technology: General Systems and Technology			
INFSCI 2500 Data Structures			
INFSCI 2510 Information Systems Analysis			
INFSCI 2511 Information Systems Design	INFSCI 2510		
INFSCI 2540 Software Engineering			
INFSCI 2550 Client-Server Systems	INFSCI 2500		
INFSCI 2560 Web Technologies & Standards			
INFSCI 2570 Management Information Systems	INFSCI 2510. Co-requisite: INFSCI 2710		
INFSCI 2591 Algorithm Design	INFSCI 2500 (also meets Foundation requirement)		
INFSCI 2592 Architectures & Assembler Language			
INFSCI 2593 Operating Systems	INFSCI 2500, INFSCI 2592		
INFSCI 2950 Indep Study (Systems)	permission of fac advisor & fac sponsor		
INFSCI 2955 Spec Topics (Systems)			
TELCOM courses may be used to meet the Systems and Technology Requirement with permission of the advisor.			
Systems and Technology: Networks and Security			
TELCOM 2000 Intro to Telecommunications	Algebra, advisor's approval		
TELCOM 2110 Network Design	TELCOM 2000/2100		
TELCOM 2200 Physical Layer of Communications 1	Calculus		
TELCOM 2300 Software Tools & Techniques	Structured programming language		
INFSCI 2620 Developing Secure Systems	INFSCI 2150		
INFSCI 2621 Security Management	INFSCI 2150, TELCOM 2821		
INFSCI 2629 Capstone in Security	INFSCI 2150/TELCOM 2810, TELCOM 2821		
INFSCI 2640 Programming Languages and Environments	INFSCI 2500		
TELCOM courses may be used to meet the Systems and Technology Requirement with permission of the advisor.			
Systems and Technology: Database and Web			
INFSCI 2710 Database Management	INFSCI 2500		
INFSCI 2711 Advanced Topics in Database Management	INFSCI 2710		
INFSCI 2730 E-Business	INFSCI 2560, 2710, and either 2511 or 2470;		
INFSCI 2731 Security in E-Commerce	INFSCI 2150 and 2560		
INFSCI 2739 Web Services and Distributed Computing	INFSCI 2550 and 2730		
INFSCI 2780 Interactive Graphics	INFSCI 2500		
Systems and Technology: Geoinformatics			
INFSCI 2801 Geospatial Information Systems (GIS)			
INFSCI 2802 Internet-based and Interoperable GIS	INFSCI 2801		
INFSCI 2809 Spatial Modeling and Analysis	INFSCI 2801		
THESIS			
INFSCI 2995 Thesis	24 credits and permission of advisor		

Elective # 1 _____

Elective #2 _____