MSIS HCC–PLAN OF STUDY

SCHOOL OF COMPUTING AND INFORMATION

Student Name: _____

Advisor Name: _____

PeopleSoft ID: _____

MSIS Specialization: Human-centered Computing (MSISHCC-SP or MSIHCC-SP)

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
Foundations	9 credits				
					CHOOSE TWO: INFSCI 2040, 2130, 2135, 2140, 2160, 2180, 2410*, OR CS 2750/ISSP 2170
Cognitive	9 credits	INFSCI 2300			REQUIRED
					CHOOSE TWO: INFSCI 2430, 2350, 2420, 2460, 2480
System & Technology	15 credits	INFSCI 2470			REQUIRED
					ANY COURSE IN THE SYSTEMS AND TECHNOLOGY AREA RECOMMENDED+: INFSCI 2150*, 2500, 2510, 2540, 2560, 2710, 2780
Electives	3 credits				

Total credits = (36 credits required for graduation)	GPA = (Minimum 3.0)

*Counted as Systems and Technology course for this specialization ONLY
*Counted as Foundations course for this specialization ONLY

‡If course options are not explicitly stated, refer to the MSIS Course Index for class options which fall under the appropriate academic area

+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	
Pre-reqs for specialization	none
Provisions completed	Check provisional condition review form, insert classes here:
Advanced Standing	Total credits (6 max):
Grading & Program Policies	Total credits "S" Grade (6 max):
	Individual course grades "C" or better: ⭘ Yes, no grades earned less than "C"
	Total credits of exceptions (9 max):
Graduation Certification	Faculty Signature: Date:

MSIS COURSE INDEX & POLICIES

Admissions provisions and pre-requisites must be completed in addition to the 36 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 courses webpage
- 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
FOUNDATIONS		
INFSCI 2000*	Introduction to Information Science	
INFSCI 2020	Mathematical Foundations for Info Science	
INFSCI 2040	Research Design	
INFSCI 2120	Information & Coding Theory	
INFSCI 2125	Network Science & Analysis	Cross-listed with TELCOM 2215
INFSCI 2130	Decision Analysis & Decision Support Systems *(also*	Cross-listed with ISSP 2430
INFSCI 2135	Probabilistic Methods	Cross-listed with BIOINF 2101
INFSCI 2140	Information Storage & Retrieval	
INFSCI 2150	Information Security and Privacy	PREQ: TELCOM 2000 or INFSCI 1070
INFSCI 2160	Data Mining	PREQ: [(INFSCI 2020 or 2725) with B+ or better] or Analytics Exam
INFSCI 2170	Cryptography	Cross-listed with TELCOM 2820
INFSCI 2180*	Knowledge Representation & the Semantic Web	
TELCOM 2130*	Queuing Theory	PREQ: TELCOM 2120 and 2310
INFSCI 29XX	*See Independent Study and Special Topics options in Foundations*	
FOUNDATIONS & SYSTEMS (these courses meet either a systems OR foundations requirement)		
INFSCI 2591	Algorithm Design	PREQ: INFSCI 2500
INFSCI 2725	Data Analytics	
INFSCI 2915*	Special Topics: Foundations – MACHINE LEARNING	
PROFESSIONAL		
INFSCI 2204	Intro to Technical Communications for Info Sci	English Proficiency Test placement
INFSCI 2205	Technical Communications for Info Science	English Proficiency Test placement
INFSCI 2210*	Information Ethics	Cross-listed with TELCOM 2515 & LIS 2194
INFSCI 2220*	Information Policy	Cross-listed with TELCOM 2512 & LIS 2186
INFSCI 2230*	Cybercrime	Cross-listed with LAW 5380
INFSCI 2821	Foundations of Clinical & Public Health Info	Cross-listed with BIOINF 2011
TELCOM 2510*	US Telecommunications Policy	PREQ: TELCOM 2000 or 2100 or INFSCI 1070
COGNITIVE SCIENCE		
INFSCI 2300	Human Information Processing	Cross-listed with ISSP 2221
INFSCI 2350	Human Factors in Systems	
INFSCI 29XX	*See Independent Study and Special Topics options in Cognitive Science*	

MSIS COURSE INDEX & POLICIES

COGNITIVE SCIENCE & SYSTEMS (these courses meet either a systems OR cognitive requirement)		
INFSCI 2410	Intro to Neural Networks	
INFSCI 2415	Information Visualization	Cross-listed with LIS 2690
INFSCI 2420*	Intro to Natural Language Processing	PREQ: INFSCI 2300 & 2500, Cross-listed with CS 2731
INFSCI 2430	Social Computing	Cross-listed with ISSP 2430
INFSCI 2440*	Artificial Intelligence	PREQ: INFSCI 2300 & 2500
INFSCI 2460	Spatial Reasoning for GIS	
INFSCI 2470	Interactive System Design	
INFSCI 2480	Adaptive Information Systems	PREQ: INFSCI 2710 or 2470
SYSTEMS AND TECHNOLOGY		
INFSCI 2500	Data Structures	
INFSCI 2510	Information Systems Analysis & Design	
INFSCI 2540	Software Engineering	
INFSCI 2545	Software Quality Assurance	
INFSCI 2550	Client-Server Systems	PREQ: INFSCI 2500
INFSCI 2560	Web Technologies & Standards	
INFSCI 2620	Developing Secure Systems	PREQ: INFSCI 2150 or TELCOM 2810
INFSCI 2621	Security Management & Computer Forensics	PREQ: (INFSCI 2150 or TELCOM 2810) & TELCOM 2821
INFSCI 2625*	Cybersecurity & Privacy Regulation	
INFSCI 2629	Capstone in Security	PREQ: (INFSCI 2150 or TELCOM 2810) & TELCOM 2821
INFSCI 2640	Programming Languages & Environments	PREQ: INFSCI 2500
INFSCI 2710	Database Management	CREQ: INFSCI 2500
INFSCI 2711	Advanced Topics in Database Management	PREQ: INFSCI 2710
INFSCI 2730	E-Business	PREQ: INFSCI 2560 & 2710
INFSCI 2731	Security in E-Commerce	PREQ: 2560 & CREQ: INFSCI 2150 or TELCOM 2810
INFSCI 2739	Web Services & Distributed Computing	PREQ: INFSCI 2550 & 2730
INFSCI 2750	Cloud Computing	PREQ: INFSCI 2500
INFSCI 2780	Interactive Graphics	PREQ: INFSCI 2500
INFSCI 2801	Geospatial Information Systems (GIS)	
INFSCI 2802	Location-based Services	
INFSCI 2809	Spatial Data Analytics	
TELCOM 2000	Intro to Telecommunications	
TELCOM 2821	Network Security	
TELCOM 2XXX	*Other telecommunications classes not explicitly listed may serve as S&T classes with advisor permission.*	
INDEPENDENT STUDIES (variable credits, 1-3), SPECIAL TOPICS, AND THESIS		
INFSCI 2910	Independent Study: Foundations	Permission of faculty advisor & study sponsor
INFSCI 2915	Special Topics: Foundations	
INFSCI 2930	Independent Study: Cognitive Science	Permission of faculty advisor & study sponsor
INFSCI 2935	Special Topics: Cognitive Science	
INFSCI 2950	Independent Study: Systems and Technology	Permission of faculty advisor & study sponsor
INFSCI 2955	Special Topics: Systems and Technology	
INFSCI 2970	Independent Study	Permission of faculty advisor & study sponsor
INFSCI 2980	Practicum	18 credits & advisor permission
INFSCI 2995	Thesis	24 credits & advisor permission