

College of Engineering and Computer Science
Systems & Information Science
Fall 2016

Name _____
 SUID _____

pr=prerequisite, co=corequisite
 Minor/Second Major (if any): _____

CREDIT	FIRST-YEAR		SOPHOMORE		JUNIOR		SENIOR		VAR.
GRADE	F	S	F	S	F	S	F	S	#/-

Writing and Communication Skills (9 cr)

WRT105 Studio 1: Practices of Academic Writing
 WRT205 Studio 2: Critical Research and Writing (pr: WRT 105)
Select one of the following three courses:
 CRS/CAS325 Presentational Speaking (3)
 IST 444 Info. Reporting & Presentations (3)

(3)_____	3								
(3)_____				3					
(3)_____						3			

Arts & Sciences Elec (39 cr) 6 cr Hum, 6 cr SS, 6 cr Nat Sci. & Math, 21 cr (in total) SS and/or Hum and/or VPA

Humanities _____
 Humanities _____
 Soc.Scie _____
 Soc.Scie _____
 NS/Math _____
 NS/Math _____
 SSH/VPA _____
 SSH/VPA _____
 SSH/VPA _____
 SSH/VPA _____
 SSH/VPA _____
 SSH/VPA _____
 SSH/VPA _____

(3)_____	3								
(3)_____		3							
(3)_____		3							
(3)_____		3							
(3)_____			3						
(3)_____				3					
(3)_____					3				
(3)_____						3			
(3)_____							3		
(3)_____								3	
(3)_____									3

Free Electives (3 cr)

Free Elec _____

(3)_____			3						
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Mathematics Foundations (13 cr)

MAT194 Pre-Calculus
 PHI 251 Logic
 CIS 375 Intro to Discrete Math (pr: PHI 251)
 CIS 223 Statistical Reasoning and Practice (pr: MAT 194)

(4)_____	4								
(3)_____		3							
(3)_____			3						
(3)_____				3					

SIS Core (32 cr)

SIS 100 Freshman Forum

(3)_____	3								
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Computing Core (20 Cr)

ECS102 Intro to Computing
 CIS 252 Intro to Computer Science
 CIS 351 Data Structures (pr: CIS 252)
 CIS/CSE 386 Princ of Computer Systems Des. (pr: ECS 102, CIS 351)
 CIS 453 Software Specifications & Design (pr: CIS 351 or CSE 382)
 CIS 454 Software Implementations (pr: CIS 453)

(3)_____	3								
(4)_____		4							
(4)_____			4						
(3)_____					3				
(3)_____							3		
(3)_____								3	

Information Management Core (9 cr)

IST 335 Intro to Information-Based Organ.
 IST 352 Information Analysis of Organ Sys.
 IST 445 Managaging Information Sys Projects

(3)_____			3						
(3)_____				3					
(3)_____					3				

Short Technical Sequence (6 cr)

Tech Spec _____
 Tech Spec _____

(3)_____						3			
(3)_____					3				

Focus Area (18 cr)

Elective _____
 Elective _____
 Elective _____
 Elective _____
 Elective _____
 Elective _____

(3)_____					3				
(3)_____				3					
(3)_____						3			
(3)_____							3		
(3)_____								3	

TOTAL CREDITS

120	16	16	16	15	15	15	15	12	
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Systems & Information Science Curriculum Notes 2016-2017

SIS Specializations

All SIS students must complete both a *Short Technical Sequence* (6 credits) and a *Focus Area* (18 credits).

The Short Technical Sequence requires a two-course sequence in one of several applied-technology areas: Database Management, Networking, Security Management, Systems, and Web Design Management.

The Focus Area requires 18 credits in a specific domain, which represents a potential area for the application of a student's information management and computing skills.

Students **may not** count the same course towards both their Short Technical Sequence and their Focus Area.

Short Technical Sequence

Students must complete one of the following short technical sequences:

Database Management	
IST 359	Intro to Database Management Systems
<i>And choose one of the following</i>	
IST 469	Advanced Data Admin: Concepts & Database Management
CSE 581	Intro to Database Management Systems

Networking	
IST 233	Intro to Comp Networking
<i>And choose one of the following</i>	
IST 452	Advanced Comp Networking
CIS/CSE/ELE 458	Data Networks: Basic Principles

Security Management	
IST 323	Intro to Information Security
CSI 483/CSE 484	Intro to Comp & Network Security

Systems	
GET 439	Enterprise Technologies
CSE 483	Windows Programming

Web Design & Management	
IST 263	Design Management of Internet Services
<i>And choose one of the following</i>	
IST 479	E Commerce Technologies
IST 523	Graphic Design for the Web

Focus Areas

The following options satisfy the Focus Area requirement:

Information Assurance & Security (IAS)	
IST 323	Intro to Information Security
CIS/CSE 583	Systems Assurance Seminar
<i>And choose four of the following</i>	
IST 425	Enterprise Risk Management
IST 429	Organizational Info Security
IST 471	Internship (3 credit IAS-related internship, subject to approval)
CIS 483/CSE 484	Intro to Comp & Network Security
CIS/CSE 487	Access Control, Security & Trust

*Note: Students who take the Information Assurance & Security focus area **cannot** take the Security Management short technical sequence.*

Global Enterprise Technologies	
GET 234	Effective Collaboration in a Globally Distributed Enterprise (1.5 cr)
GET 365	Business Value of IT (1.5 cr)
GET 434	Global Computing Challenges
GET 239	Enterprise Technologies
<i>And choose three of the following</i>	
GET 433	Multi-tier Application Development
GET 302	Global Financial System Arch.
GET 305	Globalization, Culture & Information Technology
GET 471	Internship (3 credits' worth)

Note: A student who selects carefully from this list can satisfy the requirements for the GET minor.

Any minor (of at least 18 credits) throughout the University, with the following exceptions:

- Computer Engineering
- Computer Science
- Information Management and Technology

Any major throughout the University, with the following exceptions:

- Computer Science
- Information Management and Technology