

# College of Engineering and Computer Science

Systems & Information Science

Fall 2019

Name \_\_\_\_\_

SUID \_\_\_\_\_

pr=prerequisite, co=corequisite

Minor/Second Major (if any): \_\_\_\_\_

CREDIT GRADE	FIRST-YEAR		SOPHOMORE		JUNIOR		SENIOR		VAR +/-
	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 344 Info. Reporting & Presentations (3)

(3)___	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 \_\_\_\_\_
- A&S/VPA \_\_\_\_\_
- A&S/VPA \_\_\_\_\_
- A&S/VPA \_\_\_\_\_
- A&S/VPA \_\_\_\_\_
- A&S/VPA \_\_\_\_\_
- A&S/VPA \_\_\_\_\_
- A&S/VPA \_\_\_\_\_
- A&S/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)

ECS101 Intro to Engr & Comp Sci

(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/CSE386 \* 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 345 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		
(3)___								3	

### TOTAL CREDITS

120	16	16	16	15	15	15	15	12	
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\* Students will take CIS/CSE 389 Web Systems Programming and Architecture when CIS/CSE 386 are not offered

\*\* This group of courses are currently under review and will like to be changed in this academic year

# Systems & Information Science Curriculum Notes 2019-2020

## 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:

<b><i>Database Management *</i></b>	
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

<b><i>Networking</i></b>	
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

<b><i>Security Management *</i></b>	
IST 323	Intro to Information Security
CSI 483/CSE 484	Intro to Comp & Network Security

<b><i>Systems *</i></b>	
GET 439	Enterprise Technologies
CSE 483	Windows Programming

<b><i>Web Design &amp; Management</i></b>	
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:

1. Any minor (of at least 18 credits) throughout the University, with the following exceptions:
  - Computer Engineering
  - Computer Science
  - Information Management and Technology
2. Information Assurance and Security (IAS)

<b><i>Information Assurance &amp; Security (IAS) *</i></b>	
IST 323	Intro to Information Security
CIS/CSE 583	Systems Assurance Seminar
<i>And choose four of the following:</i>	
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
IST 425	Enterprise Risk Management
IST 429	Organizational Info Security
<i>Note: Students who take the Information Assurance &amp; Security focus area cannot take the Security Management short technical sequence.</i>	

Other remarks

1. Short technical sequence(s) and focus area that are marked with a \* are currently under review and will likely to change in this academic year. Students should contact the program coordinator for details.
2. Students can be a dual major with any majors throughout the University, with the following exceptions:
  - Computer Science
  - Information Management and Technology