

## **COLLEGE OF INFORMATICS**

COMPUTATION = INFORMATION = COMMUNICATION

Name:
Student ID:
Catalog Year:

For Students Following the: 2024-2025 catalog

	SUPPORT COURSES (9 Hours)						
	Course	Pre-req	Credits	Term	Grade		
MAT 185	Introductory Discrete Mathematics	MAT 103 or placement	3				
STA 205	Statistical Methods	MAT 101 or placement	3				
<b>OR</b> STA 205R	Statistical Methods with Recitation		3				
PHI 310	Information Ethics	Sophomore Standing or Instructor Consent	3				

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Notes
Successful
Completion of STA
205 DSST
Successful
Completion of PHI
310 DSST

	INFORMATICS CORE COURSES (17 Hours)						
	Course	Pre-req	Credits	Term	Grade		
INF 100	Orientation to College of Informatics	Freshman Standing or Dept. Approval	1				
INF 201	Foundations of Informatics Professionals	Sophomore Standing	1				
INF 120	Elementary Programming (or placement)	MAT 102 or MAT 114 or placement	3				
INF 284*	Introduction to Computer Networks	MAT 102 or placement & INF 110 or INF 120 or CIT 130	3				
INF 286	Introduction to Web Development	MAT 103 & INF 110 or INF 120 or CSC 260 (pre-req or co-req)	3				
BIS 300	Management Information Systems	Sophomore standing or BUS 101 or BIS 275; STA 205 or STA 205R, or STA 250; & BIS 101 or BI Department Consent	3				
BIS 382	Information Security Management	BIS 300	3				

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Successful INF
120 CPLE
Successful INF 286 CPLE
Successful BIS 300 DSST Exam

CYBERSECURITY CORE COURSES (18 Hours)						
	Course	Pre-req	Credits	Term	Grade	
CYS 285*	Cybersecurity Fundamentals	CIT 130, CIT 171 & CIT 247 or INF 284	3			
CYS 310	Cybersecurity Risk Management	CYS 285 or CYS 320	3			
CYS 330	Introduction to Ethical Hacking	CYS 285	3			
CYS 385	Cybersecurity Analysis I	INF 120, CIT 271 or CIT 371, & CYS 285	3			
CYS 444	Software Security	CYS 285 or CYS 320 & CSC 362	3			
CYS 485	Cybersecurity Analysis II	CYS 385	3	_		

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	COMPUTER INFORMATION TECHNOLOGY CORE COURSES (7 Hours)						
	Course	Pre-req	Credits	Term	Grade		
CIT 130	Information Technology Fundamentals	MAT 101 or placement & ENG 101 Ready	3				
CIT 171	Introduction to Linux	ENG 101 Ready	1				
CIT 371*	Linux System Administration	INF 120, CIT 130, & CIT 171	3				

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Successful
Completion of CIT
371 CPLE

	COMPUTER SCIENCE CORE COURSES (24 Hours)						
	Course	Pre-req	Credits	Term	Grade		
ASE 230	Server-Side Programming	INF 286 & CSC 260 or CIT 383 (pre-req or co- req)	3				
CSC 260	Object-Oriented Programming I	MAT 103 & INF 110 or INF 120 or CSC 270	3				
CSC 360	Object-Oriented Programming II	CSC 260 & MAT 119 (≥ B-)	3				
CSC 350	Database Programming	CSC 360	3				
CSC 362	Computer Systems	CSC 360	3				
CSC 364	Data Structures and Algorithms	CSC 360	3				
CSC 460	Operating Systems	CSC 362 & CSC 364	3				
CSC 482	Computer Security	CSC 362	3				

Notes
Successful
Completion of
CSC 260 CPLE
Successful
Completion of
CSC 360 CPLE

GUIDED ELECTIVES (6 Hours) - Choose 2							
	Course	Pre-req	Credits	Term	Grade		
ASE 456	Cross-Platform Development	ASE 220 or ASE 230	3				
BIS 330	IT Project Management	& Junior Standing	3				
CIT 381	Raspberry PI Based IoT	BIS 300 INF 120	3				
		INF 120 & CIT 271 or					
CIT 383	Scripting I	CIT 371	3				
CIT 396	Computer Information Technology Practicum	CIT Major, Junior Standing &	0-3				
CIT 438	Cloud Computing	Department Approval CIT 371	3				
CIT 430	Advanced Network and System	CIT 371 CIT 271, CIT 371, &	<u> </u>				
CIT 470	Administration	CIT 383	3				
CIT 472	Database Administration	INF 282, CIT 271 & CSC 260 or CIT 383	3				
CIT 483	Scripting II	CIT 371 & CIT 383	3				
CMST370	Advanced Public Speaking	CMST101 or CMST110 or HNR 102	3				
CSC 396	Computer Science Practicum	CSC Major, Junior Standing & Department Approval	0-3				
CSC 415	Mobile App Development	CSC 362 or CSC 364	3				
CSC 425	Artificial Intelligence	CSC 364 & STA 205 or STA 205R or STA 250	3				
CSC 481	Blockchain & Ethereum Development	INF 120, INF 284 & CSC 260	3				
CYS 305	Peer Teaching Assistant Training	See Catalog	3				
CYS 392	Intermediate Research Experience in CYS	Sophomore Standing & Department Consent	0-3				
CYS 394	Intermediate Topics: Cybersecurity	Varies by Topic	1-3				
CYS 396	Cybersecurity Practicum	CYS Major, Junior Standing & Department Approval	0-3				
CYS 399	Intermediate Independent Study: CYS	Instructor Consent	1-3				
CYS 430	Computer Forensics	CIT 371 & CYS 285, CYS 320, or BIS 382	3				
CYS 439	Cloud Security	CYS 285 & CIT 371	3				
CYS 484	Network Security	INF 284 & CYS 285	3				
CYS 492	Advanced Research Experience in CYS	Senior Standing & Department Consent	0-3				
CYS 494	Advanced Topics: Cybersecurity	Varies by Topic	1-3				
CYS 499	Advanced Independent Study: CYS	Instructor Consent	1-3				
MAT 483	Cryptology	MAT 234 or CSC 362 or CSC 364	3				

Notes					

number of credit hours for this requirement. The experiential component can be used to fulfill one of the Guided Elective Requirements above if taken for credit.								
Course		Pre-req	Credits	Term	Grade			
CYS/CSC/C IT 292/392/ 492	Research Experience	See Catalog	0-3					
CYS/CSC/C IT 296/396	Practicum	See Catalog	0-3					
CYS 305	Peer Teaching Assistant Training	See Catalog	3					
CEP 300	Cooperative Education		1-3					
SCI 393	STEM Ambassadors	First Year STEM Major Courses Complete, 3.0 GPA, Instructor Consent	0-1					

EXPERIENTIAL LEARNING REQUIREMENT (0-6 Hours)

Students are required to enroll in & pass one experiential learning experience. There is no minimum

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- \* Students with the current certification\*\* (at the time of registering the class(es)) can have course credits based on the following course mappings:
  - CompTIA Linux+ → CIT 371 Unix Systems
  - CompTIA Network+ → INF 284: Introduction to Computer Networks
  - CompTIA Security+ → CYS 285: Cybersecurity Fundamentals

Students need to have a copy of their certification stored in their student file to obtain the above course credits.

Students must have a grade of "C-" or better to meet pre-requisites for all courses unless otherwise indicated.

Students also must earn a grade of "C-" or better and a 2.00 GPA in all courses that apply to the major.

Please consult with your advisor and the appropriate University Course Catalog for all other degree requirements.