

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			Term	Grade			
MAT 185	Introductory Discrete Mathematics	MAT 103 or placement	3					
STA 205	Statistical Methods	MAT 101 or placement	3					
OR STA 205R	Statistical Methods with Recitation		3					
PHI 310	Information Ethics	Sophomore Standing or Instructor Consent	3					

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

INFORMATICS CORE COURSES (17 Hours)							
Course	Credits	Term	Grade				
Orientation to College of Informatics	Freshman Standing or Dept. Approval	1					
Foundations of Informatics Professionals	Sophomore Standing	1					
Elementary Programming (or placement)	MAT 102 or MAT 114 or placement	3					
Introduction to Computer Networks	MAT 102 or placement & INF 110 or INF 120 or CIT 130	3					
Introduction to Web Development	MAT 103 & INF 110 or INF 120 or CSC 260 (pre-req or co-req)	3					
Management Information Systems	Junior standing or BUS 101 or BIS 275; STA 205 or STA 205R, or STA 250; & BIS 101 or BI Department Consent	3					
Information Security Management	BIS 300	3					
	Course Orientation to College of Informatics Foundations of Informatics Professionals Elementary Programming (or placement) Introduction to Computer Networks Introduction to Web Development Management Information Systems	Orientation to College of Informatics Freshman Standing or Dept. Approval Foundations of Informatics Professionals Elementary Programming (or placement) Introduction to Computer Networks Introduction to Web Development Mar 102 or Mar 114 or placement Mar 102 or placement Mar 102 or placement Mar 102 or or INF 120 or CIT 130 Mar 103 & INF 110 or INF 120 or CSC 260 (pre-req or co-req) Junior standing or BUS 101 or BIS 275; STA 205 or STA 250; & BIS 101 or BI Department Consent	CoursePre-reqCreditsOrientation to College of InformaticsFreshman Standing or Dept. Approval1Foundations of Informatics ProfessionalsSophomore Standing1Elementary Programming (or placement)MAT 102 or MAT 114 or placement3Introduction to Computer NetworksMAT 102 or placement & INF 110 or INF 120 or CIT 1303Introduction to Web DevelopmentINF 110 or INF 120 or CSC 260 (pre-req or co-req)3Management Information SystemsJunior standing or BUS 101 or BIS 275; STA 205 or STA 205R, or STA 250; & BIS 101 or BI Department Consent3	CoursePre-reqCreditsTermOrientation to College of InformaticsFreshman Standing or Dept. Approval1Foundations of Informatics ProfessionalsSophomore Standing1Elementary Programming (or placement)MAT 102 or MAT 114 or placement3Introduction to Computer NetworksMAT 102 or placement & INF 110 or INF 120 or CIT 1303MAT 103 & INF 110 or INF 120 or CSC 260 (pre-req or co-req)3Junior standing or BUS 101 or BIS 275; STA 205 or STA 205R, or STA 250; & BIS 101 or BI Department Consent3			

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	Successful INF
	120 CPLE
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	Successful INF
	286 CPLE
	200 01 22
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	Successful BIS
	300 DSST Exam
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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				

	No	otes	3	

	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					

Notes
110.00
Successful
Completion of CIT
371 CPLE

	COMPUTER SCIENCE CORE COURSES (24 Hours)						
	Course	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		
DIC 220	·	& Junior Standing	_		
BIS 330	IT Project Management	BIS 275 or BIS 300	3		
CIT 381	Raspberry PI Based IoT	INF 120 INF 120 & CIT 271 or	3		
CIT 383	Scripting I	CIT 371	3		
CIT 396	Computer Information Technology Practicum	CIT Major, Junior Standing & Department Approval	0-3		
CIT 438	Cloud Computing	CIT 371	3		
CIT 470	Advanced Network and System Administration	CIT 271, CIT 371, & 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	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		

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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.