



**Bachelor of Science in:
Cybersecurity**

**For Students Following the:
2021-2022 catalog**

Name:

Student ID:

Catalog Year:

SUPPORT COURSES (12 Hours)				
Course	Pre-req	Credits	Term	Grade
MAT 185	Introductory Discrete Mathematics	MAT 103 or placement	3	
STA 205	Statistical Methods	MAT 101 and ENG 101R or RDG 110 or placement	3	
OR STA 205R	Statistical Methods with Recitation		3	
MAT 483	Cryptology	MAT 234 or CSC 362 or CSC 364	3	
PHI 310	Information Ethics	Sophomore Standing or Instructor Permission	3	
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 103 & 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	Junior standing or BUS 101 or BIS 275; STA 212, STA 205 or STA 205R, or STA 250; & BIS 101 or BI Department Permission	3	
BIS 382	Principles of Information Security	BIS 300	3	
CYBERSECURITY CORE COURSES (6 Hours)				
Course	Pre-req	Credits	Term	Grade
CYS 310	Cybersecurity Risk Management	CIT 285	3	
CYS 444	Software Security	CIT 285 & CSC 362	3	
COMPUTER INFORMATION TECHNOLOGY CORE COURSES (16 Hours)				
Course	Pre-req	Credits	Term	Grade
CIT 130	Information Technology Fundamentals	MAT 102 or placement & ENG 101R or placement	3	
CIT 171	Introduction to Linux	ENG 101 or ENG 101R or placement	1	
CIT 285	Cybersecurity Fundamentals	CIT 130, CIT 171 & CIT 247 or INF 284	3	
CIT 371	Unix Systems	INF 120, CIT 130, CIT 171 & CIT 247 or INF 284	3	
CIT 430	Computer Forensics	CIT 480 only or CIT 371 & CIT 285 or BIS 382	3	
CIT 485	Advanced Cybersecurity	CIT 371 & CIT 285 or CIT 480	3	
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	

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Approved Exceptions

Successful Completion of STA 205 DSST

Successful Completion of PHI 310 DSST

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Successful INF 120 CPLE

Successful INF 286 CPLE

Successful BIS 300 DSST Exam

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Successful Completion of CIT 371 CPLE

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CSC 260	Object-Oriented Programming I	MAT 103 & INF 110 or INF 120 or CSC 270	3	Successful Completion of CSC 260 CPLE
CSC 360	Object-Oriented Programming II	CSC 260 & MAT 119 (B-)	3	Successful Completion of CSC 360 CPLE
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	

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		Pre-req	Credits	Term	Grade	Approved Exceptions
ASE 456	Cross-Platform Development	ASE 220 or ASE 230 & Junior Standing	3			
BIS 330	IT Project Management	BIS 275 or BIS 300	3			
CIT 381	Raspberry PI Based IoT	INF 120	3			
CIT 383	Scripting I	INF 120 & CIT 271 or CIT 371	3			
CIT 396	Computer Information Technology Practicum	Junior Standing, 2.25 GPA, Department Approval	0-3			
CIT 438	Cloud Computing	CIT 371	3			
CIT 470	Advanced Network 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			
CIT 484	Network Security	CIT 247 & CIT 285 or CIT 480	3			
CMST370	Advanced Public Speaking	CMST101 or CMST110	3			
CSC 396	Computer Science Practicum	Junior Standing, 2.25 GPA, Department Approval	0-3			
CSC 415	Android Mobile App Development	CSC 362 or CSC 364	3			
CSC 416	iOS Mobile App Development	CSC 362 or CSC 364	3			
CSC 425	Artificial Intelligence	CSC 364 & STA 205 or STA 205R or STA 250	3			
CYS 330	Introduction to Ethical Hacking	CIT 285	3			
CYS 392	Intermediate Research Experience in CYS	Sophomore Standing & Department Permission	0-3			
CYS 394	Intermediate Topics: Cybersecurity	Varies by Topic	1-3			
CYS 396	Cybersecurity Practicum	Junior Standing, 2.25 GPA, Department Approval	0-3			
CYS 399	Intermediate Independent Study: CYS	Instructor Permission	1-3			
CYS 492	Advanced Research Experience in CYS	Senior Standing & Department Permission	0-3			
CYS 494	Advanced Topics: Cybersecurity	Varies by Topic	1-3			
CYS 499	Advanced Independent Study: CYS	Instructor Permission	1-3			

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		Pre-req	Credits	Term	Grade	Approved Exceptions
CYS/CSC/ CIT 292/ 392/ 492	Research Experience	See Catalog	0-3			
CYS/CSC/ CIT 296/396	Practicum	See Catalog	0-3			
CEP 300	Cooperative Education		1-3			