



**Bachelor of Science in:
Cybersecurity**

**For Students Following the:
2022-2023 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 Consent	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 Consent	3	
BIS 382	Information Security Management	BIS 300	3	

CYBERSECURITY CORE COURSES (15 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	3	
CYS 385	Cybersecurity Analysis I	INF 120, CIT 271, & CYS 285	3	
CYS 444	Software Security	CYS 285 & CSC 362	3	
CYS 485	Cybersecurity Analysis II	CYS 385	3	

COMPUTER INFORMATION TECHNOLOGY CORE COURSES (7 Hours)

Course	Pre-req	Credits	Term	Grade
CIT 130	Information Technology Fundamentals	MAT 101 or placement & ENG 101R or placement	3	
CIT 171	Introduction to Linux	ENG 101 or ENG 101R or placement	1	
CIT 371	Unix Systems	INF 120, CIT 130, CIT 171 & CIT 247 or INF 284	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	
CSC 260	Object-Oriented Programming I	MAT 103 & INF 110 or INF 120 or CSC 270	3	

OFFICE USE ONLY

Approved Exceptions

Successful STA 205 DSST

Successful PHI 310 DSST

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Approved Exceptions

Successful INF 120 CPLE

Successful INF 286 CPLE

Successful BIS 300 DSST Exam

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Successful CIT 371 CPLE

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Successful CSC 260 CPLE

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		

GUIDED ELECTIVES (6 Hours) - Choose 2

Only one of CSC 415 or CSC 416 may count towards this requirement.

Course	Pre-req	Credits	Term	Grade
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 & 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 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 305	Peer Teaching Assistant Training See Catalog	3		
CYS 330	Introduction to Ethical Hacking CYS 285	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 Junior Standing & Department Approval	0-3		
CYS 399	Intermediate Independent Study: CYS Instructor Consent	1-3		
CYS 430	Computer Forensics CIT 480 only or CIT 371 & CYS 285 or BIS 382	3		
CYS 439	Cloud Security CYS 285 & CIT 371	3		
CYS 484	Network Security CIT 247 & CYS 285 or CIT 480	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		

EXPERIENTIAL LEARNING REQUIREMENT (0-6 Hours)

Students are required to enroll in & pass one experiential learning experience. There is no minimum 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/CIT 292/392/492	Research Experience See Catalog	0-3		
CYS/CSC/CIT 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		

Successful CSC 360 CPLE

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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.