NKU

COLLEGE OF INFORMATICS
COMPUTATION ■ INFORMATION ■ COMMUNICATION

Bachelor of Science in: Cybersecurity

For Students Following the: 2023-2024 catalog

Name:	
Student ID:	
Catalog Year:	

SUPPORT COURSES (9 Hours)						OFFICE USE ONLY
Course		Pre-req	Credits	Term	Grade	Approved Exceptions
MAT 185	Introductory Discrete Mathematics	MAT 103 or placement	3			
STA 205 **OR** STA 205R	Statistical Methods Statistical Methods with Recitation	MAT 101 or placement	3 3			**Successful Completion of STA 205 DSST**
PHI 310	Information Ethics	Sophomore Standing or Instructor Consent	3			**Successful Completion of PHI 310 DSST**

INFORMATICS CORE COURSES (17 Hours)						OFFICE USE ONLY
Course		Pre-req	Credits	Term	Grade	Approved Exceptions
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			**Successful INF 120 CPLE**
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			**Successful INF 286 CPLE**
BIS 300	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			**Successful BIS 300 DSST Exam**
BIS 382	Information Security Management	BIS 300	3			

CYBERSECURITY CORE COURSES (18 Hours)						OFFICE USE ONLY
Course		Pre-req	Credits	Term	Grade	Approved Exceptions
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			

COMPUTER INFORMATION TECHNOLOGY CORE COURSES (7 Hours)						OFFICE USE ONLY
Course		Pre-req	Credits	Term	Grade	Approved Exceptions
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**			**Successful Completion of CIT 371 CPLE**

COMPUTER SCIENCE CORE COURSES (24 Hours)						**OFFICE USE ONLY**
Course		**Pre-req**	**Credits**	**Term**	**Grade**	**Approved Exceptions**
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**			**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**			

GUIDED ELECTIVES (6 Hours) - Choose 2						**OFFICE USE ONLY**
Course		**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	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**			
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**			

EXPERIENTIAL LEARNING REQUIREMENT (0-6 Hours)						OFFICE USE ONLY
Students are required to enroll in & pass one experiential learning experience. There is no minimum						
Course		**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**			
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**			

* 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.