MERCY UNIVERSITY

Academic Program Sequence Map

Program Degree Type and Name: Bachelor of Science in Cybersecurity   **Catalog Year:** 2023- 2024

Program Level: Undergraduate   **Academic Term Type: Semester**

Denote core course with an asterisk and (cc) next to the course number

Year and Term: Year 1 Fall term — Credits Per Classification

Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
ENGL111: Written Engl and Lit Studies I	3	x				
CINQ 101 Critical Inquiry	3	x				
MATH116: College Algebra	3	x				
CISC120: Intro Computers & App Software	3	x				
Gen Ed or ENGL 110	3	x				
Term Credit Total:	15	15				

Year and Term: Year 1 Spring term — Credits Per Classification

Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
ENGL112: Written Engl and Lit Studies II	3	x				ENGL111
MATH201: Precalculus	3	x				MATH116 or B or higher in Algebra
CISC131: Foundations of Computing I	3	x			B or higher	
COMM 110: Oral Communication	3	x				
Gen Ed	3	x				
Term Credit Total:	15	15				

Year and Term: Year 2 Fall term — Credits Per Classification

Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
MATH244: Discrete Structures	3		x			MATH 201
CISC231: Foundations of Computing II	3	x				CISC 131
IASP230: Intro to Cybersecurity	3		x			
Gen Ed	3	x				
Gen Ed	3	x				
Term Credit Total:	15	9	6			

Year and Term: Year 2 Spring term — Credits Per Classification

Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
MATH122: Statistics	3	x				MATH 116
IASP221: Linux Administration	3		x		B or higher	CISC131
IASP330: Dis. Recovery & Bus. Continuity	3		x			IASP 230
Gen Ed	3	x				
Gen Ed	3	x				
Term Credit Total:	15	9	6			

Year and Term: Year 3 Fall term — Credits Per Classification

Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
JRSM301 : Junior Seminar	3	x				ENGL112, SPCM110, MATH116
CISC337: Database Management System	3		x			CISC 231
IASP355: Pen. Testing & Ethical Hacking	3		x			IASP221
Gen Ed	3	x				
Gen Ed	3	x				
Term credit total:	15	9	6			

Year and Term: Year 3 Spring term — Credits Per Classification

Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
CISC385: Cryptography	3		x			MATH244
CISC335: Computer Network	3		x			CISC231
IASP340 Security Policy and Procedures	3		x			
Gen Ed	3	x				
Open Elective	3			x		
Term Credit Total:	15	3	9	3		

Year and Term: Year 4 Fall term — Credits Per Classification

Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
IASP420: Network Security	3		x			CISC335
IASP455: Sec. & Intel. Programming	3		x			CISC 231 & CISC 339
Major Elective	3		x			
Major Elective	3		x			
Open Elective	3			x		
Term Credit Total:	15		12	3		

Year and Term: Year 4 Spring term — Credits Per Classification

Course Number & Title	CR	GE	Maj	OE	SM	Co / Prerequisite(s)
* IASP470 (cc): Capstone (System Sec.)	3		x			CISC 335 & IASP 355
IASP430: Digital Forensics	3		x			IASP 355
Major Elective	3		x			
Open Elective	3			x		
Open Elective	3			x		
Term Credit Total:	15		9	6		

Program Totals	Credits: 120	General Education: 60	Major & Major Elective: 48	Open Elective: 12

Legend: CR: Credits   GE: General Education   Maj: Major / Major Elective   OE: Open Elective   SM: Success Marker   Co/Prerequisite(s): List of co/ prerequites for noted course