School of Informatics, Humanities and Social Sciences
Department of Computer and Information Systems

The 4-year plan below is for guidance only. Always review your individual check sheet for your degree requirements and progress. For full course descriptions, see the RMU Course Catalog.

For more information, contact: Jamie Pinchot, D.Sc., Department Head & Professor, Computer and Information Systems, at pinchot@rmu.edu

BACHELOR OF SCIENCE (B.S.) IN CYBERSECURITY (120 CREDITS)
4-Year Guided Curriculum

FALL		Semester 1		YEAR 1 SPRING		Semester 2	
INFS	1020	Fundamentals of IT	3	CSEN	1020	Argument and Research	3
CSEN	1010	Reading and Writing Strategies; **OR**	3			Science Core	3
CSCM	2050	Intercultural Communication					
ECON	1010	Survey of Economics	3	INFS	3240	Python Programming Language	3
FYSP	1000	First Year Studies Seminar	1	CYBS	2010	Computing Principles & Practices	3
Math		If did NOT test into STAT2110 **OR**	3	INFS	2020	Operating Systems	3
HUMA	1010	Humanities: Art & Music					
CYBS	2000	Intro to Cybersecurity	3				

FALL		Semester 3		YEAR 2 SPRING		Semester 4	
CSCM	1030	Public Speaking and Persuasion	3	CSCM	2040	Professional Communication in Workplace	3
INFS	2151	Java **OR**	3	CYBS	3220	Secure Systems Design	3
	2184	C++ **OR**					
CYBS	3250	Adv Application Programming and Security					
CYBS	3120	Intro to Digital Forensics	3	INFS	3230	Introduction to Networking	3
CYBS	3170	Cyberlaw	3	INFS	3450	Discrete Mathematics for Computing	3
STAT	2110	Statistics	3	PSYC	1010	General Psychology	3

FALL		Semester 5		YEAR 3 SPRING		Semester 6	
INFS	3235	Network Security	3	INFS	4240	Database Management Systems	3
CYBS	4300	Cybersecurity Risk Management	3	CYBS	4350	Cybersecurity Policies, Standards, & Compliance	3
ENGL		Literature Core	3			Open Elective 2	3
CYBS	3190	Cyber Forensic Investigations **OR** Mobile Forensics	3	HIST		History Core	3
	3191						
		Open Elective 1	3	CYBS	4360	Emerging Topics in Cybersecurity	3

FALL		Semester 7		YEAR 4 SPRING		Semester 8	
INFS	4370	IT Governance & Ethics	3	CYBS	4340	Cybersecurity Incident Response and Planning	3
CYBS	3850	Ethical Hacking	3	CYBS	4870	Cybersecurity Capstone	3
		Open Elective 3	3			Open Elective 4	3
SOCI	1010	Principles of Sociology; **OR**	3			Open Elective 5	3
	1020	Contemporary Amer Social Problems					
CYBS	4250	Data Security & Cryptography	3	CYBS	4180	Network Forensics	3
				INFS	4860	Program Outcomes Assessment	0

FOR USE BY INCOMING STUDENTS STARTING ACADEMIC YEAR 2024-2025

Minimum grade of "C" is required for courses in major. A cumulative GPA of 2.00 or higher is required for graduation. Revised 3/13/24