

Cybersecurity Curriculum Plan

	Course Number	Course Name	Hours
Year 1 (Freshman)			
	BIOL 113	Principles of Biology I	3
	BIOL 115	Principles of Biology I Lab	1
	FYE 101	First Year Experience I	1
	FYE102	First Year Experience II	1
	ENG 101	Freshman Composition	3
	ENG 102	Freshman Composition	3
	HIST 101	History of Western Civilization I	3
	CBS 115	Foundations of Cybersecurity	3
	MATH 147	Pre-Calculus I	3
	MATH 148	Pre-Calculus II	3
	CS 110	Computer Science I	3
	CS 120	Computer Science II	3
		TOTAL	30 Hours
Year 2 (Sophomore)			
	GET 300	Rising Junior Exam	0
	MATH 273	Probability and Statistics I	3
	ENG 200	World Literature I	3
	ENG 207	Introduction to Technical Writing	3
	PHYS 153	General Physics I	3
	PHYS 153L	General Physics Laboratory	1
	THEA 212	Fundamentals of Public Speaking	3
	CS 201	Social, Legal, and Ethical Issues in Information Age	3
	MATH 153	Calculus I	3
	CS 210	Discrete Structures	3
	CBS 255	Systems Security	3
	CS 236	Data Structures and Algorithm Analysis	3
		TOTAL	31 Hours
Year 3 (Junior)			
	PHYS 154	General Physics II	3
	PHYS 154L	General Physics Laboratory	1
	ART 105	Introduction to Fine & Performing Arts	3
	SOC 101	Introduction to Social Science	3
	MATH 154	Calculus II	3
	ECON 201	Principles of Economics	3
	MATH 274	Probability and Statistics II	3
	CBS 322	Introduction to Databases and Data Security	3
	CS 325	Computer Organization & Architecture	3
	CBS 346	Operating Systems and Security	3
	CBS 355	Software Security	3
		TOTAL	31 Hours
Year 4 (Senior)			
	CBS 401	Cybersecurity Seminar	1
	CBS 407	Capstone Course (Cyber security)	3
	CBS 410/CS411	Applied Cryptography	3
	CBS 412	Organizational Security	3
	CBS 431	Computer Network Security	3
	CBS 436	Usable Security	3
	CBS 4 XX	Major Elective	3
	CBS 4XX	Major Elective	3
	Gen-Edu-Elective I	Foreign Language or selective course I	3
	Gen-Edu-Elective II	Foreign Language or selective course II	3
		TOTAL	28 Hours
		TOTAL Hours for Graduation	120 Hours

Cybersecurity Electives			
	CS 426	Artificial Intelligence	3
	CBS 434	Big Data and Cloud Security	3
	CBS 452	Computer Risk Management	3
	CBS 454	Application Security	3
	CBS 455	Cyber Gaming	3
	CBS 457	Vulnerability Assessment and Management	3
	CBS 460	Cybercrime Investigations and Digital Forensics	3
	CBS 461	Intrusion Detection and Protection Systems	3

Foreign Languages: Spanish 101 and Spanish 102 or French 101 or French 102 or German 101 and German 102

Selective General Education electives:

(ACCT 201 and ACCCT 202) or (GB 150 and GB202) or (MC 303 and MC 304) or (GB 150 and MAN 301)

Transfer Students

Student must have 30 transfer credit hours to exempt FYE 101 and FYE 102

(CHEM 111 and CEHM 113L) can be substituted for (BIOL 113 and BIOL 115L)