

11. PROGRAM STRUCTURE DIAGRAM

Course Allocation Plan for Four-Year Bachelor of Science in Cybersecurity, College of Applied and Health Sciences

Year 1		Year 2		Year 3			Year 4	
Fall	Spring	Fall	Spring	Fall	Spring	Summer	Fall	Spring
ENGL101 English Comm. Skills I (UR) P: Nil CH: 3	CYSE 120 Fundamentals of Cybersecurity (DR) P: Nil CH: 3	CYSE201 Data Structures and Algorithms (DR) P: CYSE140 CH: 3	CYSE210 Computer Architecture and Operating Systems (DR) P: CYSE201 CH: 3	MNGT313 Entrepreneurship (UR) P: Nil CH: 3	CYSE310 Ethical Hacking I (DR) P: INTE207 CH: 3	CYSE470 Internship (DR) P: Nil CH: 3	CYSE401 Advanced Network Security and Forensics (DR) P: CYSE320 CH: 3	CYSE410 Information Security Management Systems (DR) P: CYSE320 CH: 3
ISLM101 Islamic Civilization (UR) P: Nil CH: 3	MATH102 Calculus II (DR) P: MATH101 CH: 3	MATH215 Linear Algebra (DR) P: MATH101 CH: 3	MATH204 Probability and Statistics (DR) P: MATH102 CH: 3	INTE207 Computer Networks I (DR) P: Nil CH: 3 Diploma Exit	CYSE320 Network Security and Cryptography (DR) P: INTE207 CH: 3		MNGT201 Principles of Management (DR) P: Nil CH: 3	Elective II (DR) P: Nil CH: 3
MATH101 Calculus I (DR) P: Nil CH: 3	Math 140 Discrete Math (DR) P: INTE105 CH: 3	CYSE202 Forensic Fundamentals & Investigations (DR) P: CYSE120 CH: 3	INTE110 Web Application Development (DR) P: INTE130 CH: 3	INTE310 Technical Writing (DR) P: Nil CH: 3	INTE230 Incident Response Management (DR) P: CYSE202 CH: 3		CYSE402 Ethical Hacking II (DR) P: CYSE310 CH: 3	CYSE430 Cyber Law and Legal Regulations (DR) P: Nil CH: 3
INTE101 Information Technology Fundamentals (DR) P: Nil CH: 3	ENGL102 English Comm. Skills II (UR) P: ENGL101 CH: 3	CYSE203 Database Systems Development (DR) P: INTE130 CH: 3	CYSE220 Cyber Forensics (DR) P: CYSE120 CH: 3	CYSE303 Secure Software Development (DR) P: CYSE220 CH: 3	INTE305 Computer Programming III (DR) P: INTE130 CH: 3		CYSE403 Penetration Detection (DR) P: CYSE310 CH: 3	CYSE440 Malware Forensics (DR) P: CYSE401 CH: 3
INTE105 Computer Programming I (DR) P: Nil CH: 3	INTE130 Computer Programming II (DR) P: INTE105 CH: 3	CYSE204 Cyber Ethics (DR) P: CYSE120 CH: 3	CYSE230 Computational Thinking (DR) P: Nil CH: 3	CYSE304 Biometric Authentication (DR) P: CYSE202 CH: 3	CYSE350 Risk Analysis and Management (DR) P: Nil CH: 3		Elective I (DR) P: Nil CH: 3	CYSE475 Research Project (DR) P: Nil CH: 3
15 credits	15 credits	15 credits	15 credits	15 credits	15 credits		3 credits	15 credits

Electives:

INTE407 Block-Chain Technologies
 CYSE330 Data Backup & Recovery
 CYSE420 Database and Distributed Systems Security
 INTE450 Internet of Things

UR- University Requirement
 DR- Department Requirement
 CH: Credit Hours
 P: Pre-requisite