College	College of Engineering	Department	Electrical Engineering and Computer Science
Program	Cyber Security	Degree Level	Bachelor of Science
Total Credit Hours	123 CH	Applicable for a batch of	2021 and after

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

List of Elective Courses:

A student must register in **2** courses with a total of **6** credits hours following the program study plan.

Course Code	Course Title	Pre-Requisite	Credits hours
CYSE330	Data Backup & Recovery		3
INTE407	Block-Chain Technologies		3
CYSE420	Database and Distributed Systems Security		3
INTE450	Internet of Things		3

جامـعـة الشـرقيـة
A' SHARQIYAH UNIVERSITY