



First: University Requirements (25 Credit Hours)

Course	Code	C.H	Pre-Requisites
Skills of Holy Quran Recitation and Tajweed	BUST01	1	-
English Language (1)	BUST02	4	-
Arabic Language	BUST03	4	-
Leadership Skills Development	BUST04	1	-
Islamic Culture	BUST05	4	-
English Language (2)	BUST06	4	BUST02
Communication Skills	BUST07	1	-
Critical Thinking	BUST08	1	-
Computer Skills	BUST09	3	-
Research Methodology	BUST10	2	-

Cont. Program Compulsory Requirements

Course	Code	C.H	Pre-Requisites
Secure Software Engineering	CYS363	3	CSB325
Visual Programming	ITB332	3	CIT10
Network Security	CYS353	3	CSB252, CYS262
Networks Monitoring and Documentation	CYS354	3	CYS353
Network Security Management	CYS343	3	CYS342, CYS353, ITB323
Ethical Hacking	CYS364	3	CYS121, CYS342
Cloud Computing Security	CYS465	3	CYS354
Cybercrime Forensics Analysis	CYS466	3	CSB252, ITB332
Mobile and Wireless Computing Security	CYS467	3	CSB252, ITB332
Risks Management Security	CYS444	3	CYS343
Fundamentals of Artificial Intelligence	CS321	3	CIT07
Linear Algebra	BEL002	3	CIT02
Database Management and Security	CYS361	3	CIT09

Second: Faculty Requirements (42 Credit Hours)

Course	Code	C.H	Pre-Requisites
Principles of Mathematics	CIT01	3	-
Calculus	CIT02	3	CIT01
Probability and Statistics	CIT03	3	CIT02
Computing Fundamentals	CIT04	3	-
Principles of Programming	CIT05	3	CIT04
Computer Programming	CIT06	3	CIT05
Data Structures and Algorithms	CIT07	3	CIT06
Introduction to Web Design	CIT08	3	CIT04
Introduction to Database	CIT09	3	CIT05
Object Oriented Programming	CIT10	3	CIT06
Principles of Operating Systems	CIT11	3	CIT07
Graduation Project	CIT12	6	BUST10 and 70% of the Total C.H.
Industrial Training	CIT13	3	-

Third: Program Requirements

A. Program Compulsory Requirements (68 Credit Hours)

Course	Code	C.H	Pre-Requisites
Fundamentals of Cyber Security	CYS121	3	CIT04
Principles of Data Communication and Networks	CSB251	3	-
Discrete Structures	MTH221	3	CIT02
Computing Ethics	ITB323	2	CYS121
Web Application Development	ITB231	3	CIT08
Computer Architecture and Organization	CSB224	3	CSB222
Software Engineering	CSB325	3	-
Principles of Cryptography	CYS262	3	CYS121
Computer Networks	CSB252	3	CSB251, CIT11
Web Security	CYS342	3	ITB231

B. Program Elective Requirements (9 Credit Hours)

Course	Code	C.H	Pre-Requisites
Advanced Computer Forensics	CYSE321	3	-
Advanced Digital Investigation	CYSE322	3	-
Information Theory and Coding	CYSE323	3	CIT03
Servers and Networks Management Services	CYSE324	3	CSB252
Security of Internet of Things	ITE325	3	ITB231
Selected Topics in Cyber Security	CYSE325	3	CYS121
Security of E-commerce	CYSE326	3	CYS121
Reverse Engineering	CYSE327	3	-
Security of Distributed Computing	CYSE328	3	CIT11
Current Trends in Cyber Security	CYSE329	3	CYS121
Cyber Warfare	CYSE330	3	CYS121
Network Security Protocols Design	CYSE331	3	CYS262, CSB252

