

Generic Study Plan for BSc. In Information Security

Cohort fall 2024 and prior - Total = 130 credit hours

Year 1 - First Semester				Year 1 - Second Semester			
Course #.	Course Title	Pre-req.	Cr.	Course #.	Course Title	Pre-req.	Cr.
MATH105	Calculus I		3	MATH110	Calculus II	MATH105	3
PHYS105	General Physics I		3	CENG205	Digital Design & Computer Org.		3
GEIT112 OR GEIT11	Fourth Industrial Revolution OR Introduction to Artificial Intelligence		3	CENG202	Discrete Mathematics	MATH105	3
CSBP119	Algorithms and Problem Solving		3	CSBP219	Object-Oriented Programming	CSBP119	3
GEAE101	Acad. English for Hum. & STEM		3	GEEM110	Contemporary Emirati Studies		3
CSBP121	Programming Lab I	CSBP119 (co)	1	CSBP221	Programming Lab II	CSBP121, CSBP219 (co)	1
Semester Credit Hours			16	Semester Credit Hours			16
Year 2 - First Semester				Year 2 - Second Semester			
Course #.	Course Title	Pre-Req.	Cr.	Course #.	Course Title	Pre-Req.	Cr.
CENG210	Comm. & Net. Fund.	CENG205 (co/pre) & PHYS 105	3	ITBP370	Professional Responsibility in IT	ESPU1081	3
CSBP315	Operating Systems Fundamentals	CENG205	3	STAT210	Probability and Statistics	MATH110	3
BIOC100/ CHEM111	Basic Bio. I or General Chem. I		3	ITBP301	Security Principles & Practice	CENG210	3
CSBP319	Data Structures	CSBP219	3	GEIS101 OR ISLM100	Biography of the Prophet Sira OR Islamic Culture		3
Elective	Cultural Elective 1		3	CSBP340	Database Systems	CSBP319	3
Semester Credit Hours			15	Semester Credit Hours			15
Year 3 - First Semester				Year 3 - Second Semester			
Course #.	Course Title	Pre-Req.	Cr.	Course #.	Course Title	Pre-Req.	Cr.
ISEC311	Network Security I	ITBP301	3	ISEC322	Design and Analysis of Security Prot.	ISEC312, ISEC324 (co)	3
ISEC312	Cryptography	ITBP301, CENG202	3	ISEC323	Secure Software Design and Eng.	CSBP219, ITBP301	3
CSBP320	Data Mining	STAT 210	3	ISEC324	Cryptography Lab	ISEC322 (Co)	1
	Major Elective 1**		3	ITBP418	Entrepreneurship in IT	ITBP301 or ITBP280	3
GESU121	Sustainability		3	Elective	Cultural Elective 2		3
Semester Credit Hours			15	Semester Credit Hours			13
Year 4 - First Semester				Year 4 - Second Semester			
Course #.	Course Title	Pre-Req.	Cr.	Course #.	Course Title	Pre-Req.	Cr.
ISEC411	Privacy and Anonymity	CSBP320, ISEC311	3	ISEC412	Digital Forensics	CSBP315, ISEC321, ISEC323	3
ISEC421	Risk Analysis and Management	STAT210, ITBP301	2	ISEC422	Security Policy, Laws, and Governance	ITBP370, ISEC421	3
ITBP480	Senior Graduation Project I*	STAT210	3	ISEC423	Systems Security Lab	ISEC413 (Co)	1
	Major Elective 2**		3	ITBP481	Senior Graduation Project II	ITBP480	3
ISEC414	Network Security Lab	ISEC321 (Co)	1	ISEC413	Security Architecture and Mechanisms	ISEC322, ISEC423 (co)	3
ISEC321	Network Security II	ISEC311, ISEC414 (Co)	3				
Semester Credit Hours			15	Semester Credit Hours			13
Year 5 - First Semester							
ITBP495: Internship (12 credit hours)							
(Students are not Allowed to register any additional courses during their internship without the approval of the College)							

*Students must have finished 80 Cr. Hr to register in ITBP480

Major electives Courses**	Pre-req.	Major electives Courses**	Pre-req.
ISEC 416 Information Security Management	ITBP 301	ISEC 428 Special Topics in Information Security	ITBP301, ISEC322
ISEC 417 Database Security	CSBP320 ,ITBP301	ITBP 280 Information Technology Project Management Exhibition	CSBP219
ISEC 424 Hardware-Oriented Security & Trust	CSBP320 ,ITBP301		

Cultural Elective Courses (6 Cr. Hrs.)		
Social and Behavioral Sciences (3 Cr. Hrs.)		
	AGRB 210	Introduction to Agribusiness
	ECON 110	Principles of Economics
	HSR 140	Introduction to Society and Behavior
	HSR 150	Introduction to Government, Policy, and Urban Studies
	PSY 100 / PYSC 100	Introduction to Psychology
	GEO 200	World Regional Geography
	GHEP111	Happiness and Wellbeing
	CURR103	Early childhd Dev & Learning
	CHIN 102	Chinese 2 for beginners
	FCH 102	French 2 for beginners
	KOR 102	Korean 2 for beginners
	GER 102	German 2 for beginners
	SPN 102	Spanish 2 for beginners
Humanities/Fine Art (3 Cr. Hrs.)		
	ARCH 366	History and Theory of Architecture
	HSR 120	Introduction to Heritage and Culture
	HSR 130	Introduction to Language and Communication
	PHI101	Introduction to Philosophy
	HIS 130	Sheikh Zayed; History, Found.& Dev.
	CHIN 101	Chinese 1 for beginners
	FCH101	French 1 for beginners
	KOR 101	Korean 1 for beginners
	GER 101	German 1 for beginners
	SPN 101	Spanish 1 for beginners