

Generic Study Plan for BSc. In Information Security

Cohort fall 2018 and before - 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
ITPB103	Principles of Information Tech.		3	CENG202	Discrete Mathematics	MATH105	3
CSBP119	Algorithms and Problem Solving		3	CSBP219	Object-Oriented Programming	CSBP119	3
ESPU1081	Intro to Acad. English for IT		3	GEIL101 or GEIT112	Information Literacy Or Fourth industry Revolution		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	ISLM1103	Islamic Culture		3
Elective	Cultural Elective 1		3	CSBP340	Database Systems	CSBP319	3
HSS105	Emirates Studies						
	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

The Global Experience (3 Cr. Hrs.)

HIS 120	Arab Islamic Civilization
HIS 125	Contemporary Civilizations
AGRB 360	Global Agri-Food Trade
BIOE 240	Principles of Environmental science
PSG 250	Principles of International Relations
GEO 200	World Regional Geography
ARCH 346	Contemporary World Architecture
HIS 121	World History: Origins to 1500

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	Introduction to Psychology
SOC 260	Folklore
SWK 200	Introduction to Social Welfare

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
HIS 133	Introduction to Art History
LIT 150	Introduction to Literature
TRS 200	Introduction to Translation
MSC 200	Introduction to Mass Media
MSC 240	World & Arab Media
LNG 100	Introduction to Linguistics
LNG 110	Language, Society & Culture
PHI101	Introduction to Philosophy
PHI270	Philosophy of Education
PHI271	History and Philosophy of Science