

Year 1 Fall			
Code	Title	Prerequisites	Hrs.
GEAE101	Acad Eng for Hum & STEM		3
MATH105	Calculus I		3
CSBP119	Algorithms and Problem Solving		3
PHYS105	General Physics I		3
GEIT113	Fundamentals of Artificial Intelligence		3
CSBP121	Programming Lab I	CSBP119(Co)	1
Total			16

Year 2 Fall			
Code	Title	Prerequisites	Hrs.
CENG210	Comm. & Net. Fund.	CENG205 (co/pre) & PHYS 105	3
CSBP315	Operating Systems Fundamentals	CENG205	3
BIOC100 Or CHEM111	Basic Biology I or General Chem. I		3
Elective	Elective 1		3
CSBP319	Data Structures	CSBP219	3
Total			15

Year 3 Fall			
Code	Title	Prerequisites	Hrs.
ISEC311	Network Security I	ITBP301	3
ISEC312	Cryptography	ITBP301, CENG202	3
CSBP320	Data Mining	CSBP340, STAT 210	3
	Program Elective I		3
Total			12

Year 4 Fall			
Code	Title	Prerequisites	Hrs.
ISEC411	Privacy and Anonymity	CSBP320, ITBP301	3
ISEC421	Risk Analysis and Management	STAT210, ITBP301	2
ISEC321	Network Security II	ISEC311, ISEC414 (Co)	3
	Program Elective II		3
ITBP480	Senior Graduation Project I	Program Director Approval	3
ISEC414	Network Security Lab	ISEC321 (Co)	1
Total			15

Summer/Fall			
Code	Title	Prerequisites	Hrs.
ITBP495	Internship (Students are not allowed to register any additional courses during their Internship without the approval of the College)		6
Total			6

Year 1 Spring			
Code	Title	Prerequisites	Hrs.
CENG202	Discrete Mathematics	MATH105	3
MATH110	Calculus II	MATH105	3
CSBP219	Object Oriented Programming	CSBP119	3
CENG205	Digital Design & Computer Arch.		3
CSBP221	Programming Lab II	CSBP219 (Co)	1
GEEM105	Contemporary Emirati Studies		3
Total			16

Year 2 Spring			
Code	Title	Prerequisites	Hrs.
ITBP301	Security Principles & Practice	CENG210	3
CSBP340	Database Systems	CSBP319	3
ITBP270	Professional Resp. in IT	GEAE101	2
GESU121	Sustainability		3
STAT210	Probability and Statistics	MATH110	3
Total			14

Year 3 Spring			
Code	Title	Prerequisites	Hrs.
ISEC322	Design and Analysis of Security Prot.	ISEC312, ISEC324 (co)	3
ISEC323	Secure Software Design and Eng.	CSBP219, ITBP301	3
ISEC324	Cryptography Lab	ISEC322 (Co)	1
ITBP218	Entrepreneurship in Information Technology		3
Elective	Elective 2		3
Total			13

Year 4 Spring			
Code	Title	Prerequisites	Hrs.
ISEC412	Digital Forensics	CSBP315, ISEC321, ISEC323	3
ISEC422	Security Policy, Laws, and Governance	ITBP270, ISEC421	3
ITBP481	Senior Graduation Project II	ITBP480	3
ISEC413	Security Architecture and Mechanisms	ISEC322, ISEC423 (co)	3
ISEC423	Systems Security Lab	ISEC413 (Co)	1
Total			13

Program Elective Courses (6 hr):			CH
ISEC 416	Information Security Management		3
ISEC 417	Database Security		3
ISEC 424	Hardware-Oriented Security and Trust		3
ISEC 428	Special Topics in Information Security		3
ITBP 280	Information Technology Project Management Exhibition		3
ITBP 601	Current Emerging Trends in Information Technology		3
ITBP 603	System Analysis, Modeling & Design		3
SEC B621	Information Security Fundamentals		3
ISBP 632	Applied Data Mining		3