

Forensic Computing and Cyber Security Four-Year Study Plan

First Year: First Semester					First Year: Second Semester				
Course code	Course Title	Credit Hours	Prerequisite	Co Requisite	Course Code	Course Title	Credit Hours	Prerequisite	Co requisite
MATH 101	Calculus I	4	MATH 002		MATH 102	Calculus II	4	MATH 101	
PHYS 101	General Physics I	4	MATH 002	MATH 101	PHYS 102	General Physics II	4	PHYS 101	
CS 111	Introduction to Computing and Programming	4	PCS 001		CS 112	Object Oriented Programming	4	CS 111	
ENGL 101	First Year Composition	3	ENGL 005		ENGL 102	Introduction to Report Writing	3	ENGL 101	
GHAL xxx	Humanities, Arts, and Languages Elective	3			GSOS xxx	Social Sciences Elective	3		
Total		18			Total		18		
Second Year: First Semester					Second Year: Second Semester				
CS 201	Introduction to Discrete Systems	3	MATH 102		STAT 232	Probability and Statistics	3	MATH 102	
CS 211	Data Structures and Algorithms	4	CS 112		CS 262	System Analysis and Design	4	CS 351	
CS 221	Fundamentals of Operating Systems	4		CS 211	CS 314	Web Application Development	3	CS 112	
GIAS 101	Islamic Culture	3			GIAS 102	Arabic Language Skills	3		
CS 351	Fundamentals of Database Systems	4	CS 112		CS 232	Computer Networks	4	CS 221	
Total		18			Total		17		
Third Year: First Semester					Third Year: Second Semester				
FC 381	Ethical Hacking	3	CS 232		FC 302	Computer Forensics and Investigations	3	CS 232	
FC 313	Cyber Security	3	CS 232		FC 332	Secure Software Design	3	FC 353	
FC 353	Operating System Security	3	CS 221		FC 372	Ethics and Professionalism	3		
ENGL 201	Technical Writing	3	ENGL 102		FC 304	Digital Forensic Tools and Techniques	4	CS 232	FC 302
FC 311	Web Security	3	CS 314	FC 313	FC 382	Defense Mechanisms	3	FC 313	
Total		15			Total		16		
<i>Summer Practical Training (FC 394, Pre-requisite: Year 3 Core Courses): 1 credit</i>									
Fourth Year: First Semester					Fourth Year: Second Semester				
FC 491	Capstone Project I	3	FC 394		FC 492	Capstone Project II	3	FC 491	
FC 411	Secure Network Design	3	FC 313		GDMC xxx	Diversity and Multiculturalism Elective	3		
GIAS xxx	Islamic Studies Elective	3			FC 472	Security and Privacy Policies	2	FC 313	
FC xxx	Professional Elective I	3	College Approval		FC xxx	Professional Elective II	3	College Approval	
FC 421	Applied Cryptography	3	STAT 232, CS 201		FC 462	Security Risk Management	3	FC 313	
Total		15			Total		14		
Total Credits Required: 132									

Note1: Subject to minor changes if required.

Note2: ENGL 111 and ENGL 112 can be taken as an elective within any of GDMC xxx, GSOS xxx, and GHAL xxx areas.