

## B.Sc. Computer Science and Cyber Security - Study Plan

Year One	Semester 1			Semester 2			
	Course No.	Course Title	Credit	Course No.	Course Title	Credit	
	ENGL 100	Academic English	3	ENGL 110	English Composition 1	3	
	ARAB 101	Arabic Language 1	3	GEN ED	Islamic Civilization & History	3	
	INFS 120	Computers & Info Sys	3	MATH 131	Calculus I	3	
	MATH 110	College Algebra	3	CHEM 131	General Chemistry I	3	
	ENGG 100	Introduction to Engineering	3	CMPS 101	Computer Programming	3	
Total			16	Total			16

Year Two	Semester 1			Semester 2			
	Course No.	Course Title	Credit	Course No.	Course Title	Credit	
	ENGL 120	Research Writing	3	MATH 231	Linear Algebra	3	
	PHYS 101	General Physics 1	4	CMPS 210	Discrete Structures	3	
	MATH 132	Calculus II	3	CMPS 220	Web Technologies I	3	
	CMPS 201	Object-Oriented Prog.	3	CMPS 235	Introduction to Data and Cyber Security	3	
	CMPS 210	Data Structures	3	PHYS 102	Physics II	4	
Total			16	Total			16

Year Three	Semester 1			Semester 2			
	Course No.	Course Title	Credit	Course No.	Course Title	Credit	
	CMPS 260	Networking I	3	CMPS 370	Computer Networks and security (II)	3	
	CMPS 270	Computer Organization & Architecture I	3	MATH 233	Calculus 3*	3	
	CMPS 355	Design and Analysis of Algorithms	3	CMPS 360	Database systems	3	
	ENGG 150	Engineering Graphics	3	CMPS 320	Web Technologies and security (II)	3	
	CMPS 301	Computing Ethics and Society	3	GEN ED	General Education	3	
GEN ED	General Education	3					
Total			18	Total			15

Year Four	Semester 1			Semester 2			
	Course No.	Course Title	Credit	Course No.	Course Title	Credit	
	MATH 331	Ordinary Differential Equations	3	GEN ED	General Education	3	
	CMPS 410	Data Science and AI	3	CONC	Concentration	3	
	CMPS 380	Software Engineering I	3	CONC	Concentration	3	
	GEN ED	General Education	3	CMPS 405	Operating System	3	
	CONC	Concentration	3	MATH 364	Numerical Analysis in Engineering	3	
MATH 290	Engineering Statistics	3					
Total			18	Total			15

Year Five	Semester 1			Semester 2			
	Course No.	Course Title	Credit	Course No.	Course Title	Credit	
	ENGG 490	Capstone	4				
	CONC	Concentration	3				
	ENGG 301	Engineering Economy	3				
	GEN ED	General Education	3				
CONC	Concentration	3					
Total			16	Total			0

■ General Education ■ College of Engineering ■ Major

**Total: 144 Credit Hours**