



CS Study Plan

Batches of 2022 - 2023

It will be displayed on the website.

Year	First Semester				
	Course #	Course Title	Prerequisite	Cr	
1	ENGL 101	General English Language	--	7	
	ARAB 182	Arabic Language Skills	--	2	
	LRSK 101	Learning and Communication Skills	--	3	
	MATH 131	Mathematics (1)	--	5	
	Total			17	
	Second Semester				
		Course #	Course Title	Prerequisite	Cr
		ISLM 181	Creed and Family in Islam	--	2
		MATH 132	Mathematics (2)	MATH 131	5
	Total			7	
	Third Semester				
		Course #	Course Title	Prerequisite	Cr
		ENGL 103	English for Academic and Specific Purpose	--	4
	MATH 133	Calculus 1	MATH 132	4	
	COMP 102	Introduction to Programming	--	4	
Total			12		



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Year	Level – 3 / First Semester				Level – 4 / Second Semester				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
2	CIS 211	Fundamentals of Information Systems	--	3	CS 221	Fundamentals of Programming	CS 211	3	
	CS 211	Introduction to Computing	--	3	CS 222	Electronics	PHYS 212	4	
	MATH 211	Calculus	--	3	STAT 207	Intro to Statistics and Probability Theory	MATH 211	3	
	PHYS 212	Physics	--	4	BIOL 222	Biology	--	4	
	HIST 281	History and Civilization of KSA	--	2	ISLM 282	Islamic Ethics and Values	--	2	
	Total				15	Total			

Year	Level – 5 / First Semester				Level – 6 / Second Semester				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
3	CIS 313	Technical Reports	--	2	CS 310	Data Structure	CS 311	2	
	MATH 301	Discrete Mathematics	STAT 207	3	CIS 321	Database Concepts and Design	CIS 211	3	
	CS 311	Object Oriented Programming (1)	CS 221	3	CS 321	Object Oriented Programming (2)	CS 311	3	
	CS 314	Digital Hardware	CS 222	3	CIS 326	IT Infrastructure Management	CIS 315	3	
	CIS 315	Communication & Network Fundamentals	CIS 211	3	MGMT 320	Principles of Management	--	3	
	CIS 413	Professional Responsibility	--	2	BUS 381	Entrepreneurship	--	2	
Total				16	Total				16



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Year	Level – 7 / First Semester				Level – 8 / Second Semester				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
4	CS 322	Operating Systems	CS 314	3	CIS 422	Human Computer Interaction	CIS 211	3	
	CS 411	Software Engineering	CIS 321, CS 321	3	CIS 423	Web-Based Systems	CIS 211	3	
	CS 412	Algorithm Analysis and Design	CS 310, MATH 301	3	CS 422	Language Theory and Finite Automata	MATH 401	3	
	CS 414	Computer Organization	CS 314	3	CIS 425	Computer Data Security and Privacy	CIS 326	3	
	MATH 401	Logic and Proof Techniques	MATH 301	3	MATH 411	Numerical Analysis	MATH 301	3	
	Total				15	Total			
Summer	CS 444	Practical (Co-op) Training	CIS 423, CS 322, CS 411	3					

Year	Level – 9 / First Semester				Level – 10 / Second Semester				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
5	CS 511	Project Proposal	Dept. Approval, CS 411	2	CS 521	Project Implementation	CS 511	3	
	ARTI 401	Artificial Intelligence Principles and Techniques	--	3	CS 522	Selected Topics in Computer Science	CS 511	3	
	ARTI 503	Parallel Computer Architecture and Programming	--	3		Elective Course - 2	--	3	
	CS 526	Mobile Application Programming	CS 321	3		Elective Course - 3	--	3	
		Elective Course - 1	--	3					
	Total				14	Total			

Preparatory year credit units	36
CS Program credit units	122
Total credit units	158



Elective Courses			
Course #	Course Title	Prerequisite	Cr
CIS 517	Data Mining and Warehousing	--	3
ARTI 404	Image Processing	--	3
ARTI 501	Natural Language processing	--	3
ARTI 558	Computer Graphics and Application	--	3
CS 513	Mobile Computing	--	3
CS 514	Basic Language Translator-Compiler	CS 422	3
CS 515	Modeling and Simulation	MATH 301	3
CS 516	Advanced Programming Languages	CS 321	3
CS 523	Multi Agents	CS 322	3
CS 525	Advanced Operating Systems	CS 322	3
CYS 506	Ethical Hacking	--	3
CYS 512	Biometric Security	--	3