



## CS Study Plan

Batches of 2018-2019 to 2021 - 2022  
Graduates up to Year 2022-2023

Year	First Semester				Second Semester				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
1	ENGL 101	General English Language	--	5	ENGL 101	General English Language		2	
	COMP 131	Computer Skills	--	2	ENGL 102	English for Academic and Specific Purposes		3	
	LRSK 141	Learning and Searching Skills	--	2	LRSK 142	Communication Skills		2	
	MAT H 111	Math I	--	3	MAT H 112	Math II	MATH 111	3	
	PHED U 162	Health and Physical Education	--	1	STAT 132	Statistics		3	
	ISLM 181	Creed and Family in Islam		2	ARAB 182	Arabic Language Skill		2	
					COMP 122	Computer Applications		3	
	<b>Total</b>				<b>15</b>	<b>Total</b>			
2	<b>First Semester</b>				<b>Second Semester</b>				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
	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	
	MAT H 211	Calculus		3	STAT 207	Introduction to Statistics and Probability Theory	MATH 211	3	
	PHYS 212	Physics		4	BIOL 222	Biology		4	
	HIST 281	History and Civilization of Kingdom of Saudi Arabia		2	ISLM 282	Islamic Ethics and Values		2	
<b>Total</b>				<b>15</b>	<b>Total</b>				<b>16</b>
3	<b>First Semester</b>				<b>Second Semester</b>				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
	CIS 313	Technical Reports		2	CS 310	Data Structure	CS 311	2	
	MAT H 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		



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	CS 314	Digital Hardware	CS 222	3	CIS 326	IT Infrastructure Management	CIS 315	3
	CIS 315	Communication & Network Fund	CIS 211	3	MGM T 320	Principles of Management		3
	CIS 413	Professional Responsibility		2	BUS 381	Entrepreneurship		2
	<b>Total</b>			<b>16</b>	<b>Total</b>			<b>16</b>
4	<b>First Semester</b>				<b>Second Semester</b>			
	<b>Course #</b>	<b>Course Title</b>	<b>Prerequisite</b>	<b>Cr</b>	<b>Course #</b>	<b>Course Title</b>	<b>Prerequisite</b>	<b>Cr</b>
	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
	MAT H 401	Logic and Proof Techniques	MATH 301	3	MAT H 411	Numerical Analysis	MATH 301	3
	<b>Total</b>			<b>15</b>	<b>Total</b>			<b>15</b>
<b>Summer</b>	CS 444	Practical (Co-op) Training	120	3				
5	<b>First Semester</b>				<b>Second Semester</b>			
	<b>Course #</b>	<b>Course Title</b>	<b>Prerequisite</b>	<b>Cr</b>	<b>Course #</b>	<b>Course Title</b>	<b>Prerequisite</b>	<b>Cr</b>
	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 - II		3
	CS 526	Mobile Application Programming	CS 321	3		Elective Course - III		3
		Elective Course - I		3				
<b>Total</b>			<b>14</b>	<b>Total</b>			<b>12</b>	
<p><b>Preparatory year credit units: 33</b></p> <p><b>CS Program credit units: 122</b></p> <p><b>Total Number of Units: 155</b></p>								