



كلية علوم الحاسب وتقنية المعلومات | College of Computer Science and Information Technology

**CYS plan for the students admitted in the academic year 2022/2023**  
(Foundation Year - CCSIT Track)

Year	First Semester				Second Semester				Third Semester				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
1	ENGL 101	General English Language		IP	ENGL 101	General English Language		IP	ENGL 101	General English Language		7	
	LRSK 101	Learning & Communication Skills		3	ISLM 181	Creed and Family in Islam		2	ENGL 103	English For Academic and Specific Purpose		4	
	MATH 131	Mathematics 1		5	MATH 132	Mathematics (2)	MATH 111	5	MATH 133	Calculus 1		5	
	ARAB 182	Arabic Language Skills		2					COMP 102	Introduction to Programming		4	
	<b>Total</b>				<b>10</b>	<b>Total</b>				<b>7</b>	<b>Total</b>		

	First Semester				Second Semester				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
2	CIS 211	Fundamentals of Information Systems		3	STAT 207	Introduction to Statistics and Probability Theory	MATH 211	3	
	CS 211	Introduction to Computing		3	CS 221	Fundamentals of Programming	CS 211	3	
	HIST 281	History and Civilization of KSA		2	CS 222	Electronics	PHYS 212	4	
	PHYS 212	Physics		4	BIOL 222	Biology		4	
	MATH 211	Calculus 2		3	ISLM 282	Islamic Ethics and Values		2	
<b>Total</b>				<b>15</b>	<b>Total</b>				<b>16</b>
	First Semester				Second Semester				
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr	
3	CIS 313	Technical Reports		2	CS 321	Object Oriented Programming 2	CS 311	3	
	CIS 315	Communication and Network Fundamentals	CIS 211	3	CIS 326	IT Infrastructure Management	CIS 315	3	
	CS 311	Object Oriented Programming 1	CS 221	3	CIS 321	Database Concepts and Design	CIS 211	3	
	CS 314	Digital Hardware	CS 222	3	CS 310	Data Structure		2	
	MATH 301	Discrete Mathematics	STAT 207	3	MGMT 320	Principles of Management		3	
	BUS 381	Entrepreneurship		2	CIS 314	Professional Responsibility		2	
	<b>Total</b>				<b>16</b>	<b>Total</b>			

\* Students admitted in the university in the 2022-2023.  
(Graduate of 2026-2027)



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	First Semester				Second Semester			
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr
4	CYS 401	Fundamentals of Cybersecurity	-	3	CYS 405	Advanced Digital Forensics	CYS 404	3
	CYS 402	Mathematical Foundations of Information Security	MATH 301	3	CYS 406	Applied Cryptography	CYS 402	3
	CYS 403	Programming for Cybersecurity	-	3	CYS 407	Secure Software Design and Engineering	CYS 403	3
	CYS 404	Digital Forensics Techniques and tools	-	3	CS 322	Operating Systems	CS 314	3
	CS 412	Algorithm Analysis and Design	MATH 301	3		Elective Course 1	-	3
	<b>Total</b>			<b>15</b>	<b>Total</b>			<b>15</b>
Summer	<b>CYS 444 - Cooperative Field Training (COOP)</b>							<b>3</b>
	First Semester				Second Semester			
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr
5	CYS 501	Project Proposal	CYS 405, CYS 406, CYS 407	2	CYS 505	Information System Audit	-	3
	CYS 502	Network Security	CYS 406	3	CYS 506	Ethical Hacking	-	3
	CYS 503	Introduction to Reverse Engineering	-	3	CYS 507	Mobile and Wireless Security	-	3
	CYS 504	Operating System Security	CS 322	3	CYS 508	Project Implementation	CYS 501	3
	ARTI 401	Artificial Intelligence: Principles and Techniques	-	3		Elective Course 2	-	3
	<b>Total</b>			<b>14</b>	<b>Total</b>			<b>15</b>
<b>Total Credits</b>					<b>158</b>			



## Elective Courses

Course #	Course Title	Credit Hours	Contact hours	Prerequisite
CYS 520	Digital Forensics for Legal Professional	3	3	-
CYS 527	Selected Topics in Cyber Security and Digital Forensics	3	3	-
CYS 530	Biometric Security	3	3	-
CYS 531	Distributed System Security	3	3	-
CYS 532	Multimedia Security	3	3	-
CYS 536	Quantum Computation and Quantum Security	3	3	-
CYS 537	Big Data Analytics and Machine Learning	3	3	-
CYS 538	Web Technology and Security	3	4	-
CIS 517	Data Mining & Data warehousing	3	4	-
CS 526	Mobile Application Programming	3	4	CS 321