



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

CYS plan for the students admitted in the academic year 2021/2022
(Foundation Year - Science Track)

	First Semester				Second Semester			
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr
1	820551	General English Language		5	820551	General English Language		2
	667593	Mathematics I		3	926172	English for Academic Purposes		3
	667638	Computer Skills		2	668130	Mathematics II	667593	3
	820553	Learning and searching Skills		2	926186	Computer Applications		3
	669035	Physical Education and Health		1	820556	Statistics		3
		Arabic Language Skills		2	820555	Communication Skills		2
						Creed and Family in Islam		2
		Total		15		Total		16
2	First Semester				Second Semester			
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr
	670238	Fundamentals of Information Systems		3	670241	Fundamentals of Programming	670237	3
	670237	Introduction to Computing		3	670242	Electronics	667501	4
	667459	Calculus		3	670244	Introduction to Statistics and Probability Theory	667459	3
	667501	Physics		4	667409	Biology		4
		History and Civilization of KSA		2		Islamic Ethics and Values		2
	670238	Fundamentals of Information Systems		3	670241	Fundamentals of Programming	670237	3
	Total		15		Total		16	
3	First Semester				Second Semester			
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr
	670247	Technical Reports		2	670246	Data Structure	670241	2
	670250	Discrete Mathematics	670244	3	670253	Database Concepts and Design	670238	3
670245	Object Oriented Programming 1	670241	3	670251	Object Oriented Programming 2	670245	3	



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	670249	Digital Hardware	670242	3	928097	IT Infrastructure Management	670278	3
	670278	Communication and Network Fundamentals	670238	3	928098	Principles of Management		3
	670258	Professional Responsibility		2		Entrepreneurship		2
	Total			16	Total			16
4	First Semester				Second Semester			
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr
	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	CS 311	3		Elective Course 1		3
	Total			15	Total			15
Summer	CYS 444 - Cooperative Field Training (COOP)							3
5	First Semester				Second Semester			
	Course #	Course Title	Prerequisite	Cr	Course #	Course Title	Prerequisite	Cr
	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	CIS 315	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
	Total			14	Total			15
Total Credits						155		



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