



## Study Plan for Bachelor's Degree in Cybersecurity for year 2023-2024

The Bachelor's Degree in Cybersecurity awarded at Princess Sumaya University for Technology after the successful completion of 132 Credit Hours distributed as follows:-

### University Requirements (27 CHs)

#### 1. Compulsory Requirements (18 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
11100	Computer Skills (Remedial)	0			Online
31021	Arabic Language Communication Skills (Remedial)	0			Online
31022	English Language Communication Skills (Remedial)	0			Online
31112	Arabic Language Communication Skills	3	31021		Online
31122	English Language Communication Skills	3	31022		Online
31151	National Education	3			Online
31160	Leadership and Societal Responsibility	0			
31251	Military Science	3			Online
31254	Entrepreneurship and Innovation	3	Finish 60 Credit Hours		Online
31374	Life Skills	3	Finish 60 Credit Hours		Online

#### 2. Elective Requirements (9 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
20251	History of Science	3			Blended
31100	Sports and Health	3			Blended
31130	Foreign languages	3			Blended
31152	Arabic Islamic Civilization	3			Blended
31211	Arabic Literature	3	31112		Blended
31252	Governance and Development	3			Blended
31260	Human Rights	3			Blended
31261	Introduction to Politics and Economic Science	3			Blended
31264	Introduction To Psychology	3			Blended
31272	Development and Environment	3			Blended
31311	Scientific Research Methods	3			Blended
31351	Contemporary Issues in the Arab World	3			Blended
31352	Jerusalem : History and Facts	3			Blended
31362	Philosophy and Critical Thinking	3			Blended

### School Requirements (25 CHs)

#### 1. Compulsory Requirements (25 CHs)

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
11102	Introduction to Computer Science	3			



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Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
11103	Structured Programming	3	11102		
11151	Structured Programming Lab	1		11103	
20132	Calculus (1)	3			
20133	Calculus (2)	3	20132		
20134	Discrete Mathematics (1)	3			Blended
20200	Technical Writing and Communication Skills	3	31112,31122		Blended
20233	Statistical Methods	3			Blended
20234	Linear Algebra	3	20133		

**Program Requirements (80 CHs)**

**1. Compulsory Requirements (68 CHs)**

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
11213	Data Structures and Algorithms for Cybersecurity	3	15200		
11223	Database Fundamentals	3	15200		Blended
11335	Operating Systems	3	11213		
15110	Cybersecurity Fundamentals	3	11102		Blended
15200	Programming for Security Professionals	3	11103		
15201	Programming for Security Professionals Lab	1		15200	
15220	Networks Fundamentals	3	15110		
15261	Secure Web Design and Development	3	15200		
15262	Secure Web Design and Development Lab	1		15261	
15310	Cryptography	3	15200,20234		
15312	Database Security	3	11223		
15313	Database Security Lab	1		15312	
15321	Network Security and Protocols	3	15220,15310		
15322	Network Security and Protocols Lab	1		15321	
15350	Artificial Intelligence and Data analatics	3	20134,20233		
15361	Secure Systems Development and Design	3	11223		Blended
15381	Infrastructure Security using Linux	3	11335		
15382	Auditing,Policies,Legal,Ethics,Compliance	3	15312		
15410	Data Integrity and Authentication	3	15310		
15411	Digital Forensics and Incident Response	3	11335		Blended
15412	Digital Forensics and Incident Response Lab	1		15411	
15433	Malware Analysis and Risk Mangement	3	11335		
15453	Ethical Haking and Penetration Testing	3	15411		
15483	Information systems risk management	3	15382		



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Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
15490	Practical Training	3	Finish 90 Credit Hours		Blended
15491	Graduation Project1	1	Finish 90 Credit Hours		Blended
15492	Graduation Project 2	2	15491		Blended

**2. Elective Requirements (12 CHs)**

Course Number	Course Title	Credit Hours	Prerequisite	Concurrent	Online
15340	Identity Management	3	15310		
15371	Cyber Crimes	3	15310		
15383	Blockchain Tecnology	3	15310		
15413	Advanced Forensics	3	15411		
15420	Mobile and Wireless Security	3	15220		Blended
15422	Multimedia Security	3	11213		
15423	Cloud Computing Security	3	15321		
15425	Network Programming	3	11335		
15434	Internet of Things	3	15321		
15435	Hardware Security	3	15310		
15443	Social Engineering and Human Factors	3	15110		
15455	E-Business Security	3	15261		
15485	Cyber Resilience and Business Continuity	3	15382		
15493	Special Topics in Cybersecurity (1)	3			
15494	Special Topic Cybersecurity (2)	3			