



**Applied Science Private University**  
**Faculty of Information Technology**  
**Study Plan for the Bachelor Program in Cybersecurity and Cloud Computing**  
**Academic Year 2021-2022**  
**(Graduation Requirements: 132 Credit Hours)**



First: University Requirements (24 Credit Hours) <input type="checkbox"/>					Fourth: Specialization Requirements 81 Credit Hours						
(a) Compulsory: (18 Credit Hours)					(a) Compulsory: (72 Credit Hours)						
Subject Number	Subject Title	Credit Hours			Prerequisites	Subject Number	Subject Title	Credit Hours			Prerequisites
		Theory	Lab	Total				Theory	Lab	Total	
1401146	Entrepreneurship and innovation	1	0	1	Concurrent Ⓢ	1305101	Introduction to Cybersecurity	3	0	3	-
1401147	Leadership and social accountability	1	0	1		1301203	Data Structures and Algorithms	2	2	3	1301108+1301111
1401148	Life skills	1	0	1		1301336	Data Communications and Computer Networks Ⓢ	3	0	3	1305101
100103	Military Sciences*	3	0	3		1305202	Ethical and Professional Issues in Computing Ⓢ	3	0	3	1305101
1401116	Islamic Education	3	0	3	-	1305211	Principles of Cloud Computing Ⓢ	3	0	3	1301336
1401123	Communication skills (Arabic)**	3	0	3	-	1305212	Network Security	2	2	3	1301336
1401124	Communication skills (English)**	3	0	3	-	1301236	Web-Based Programming	2	2	3	1301108
1401150	National Education	3	0	3	-	1305213	Cybersecurity Programming	2	2	3	1301203
<b>Total</b>		<b>18</b>	<b>0</b>	<b>18</b>		1301326	Operating Systems Ⓢ	3	0	3	1301203
<b>(b) University Elective: (6) Credit hours are selected from:</b>						1301305	Database and Application of Database	2	2	3	1301203
501114	Palastinian Cause & Contemp. Arab History	3	0	3	-	1305301	Secure Communication Protocols	2	2	3	1305212
1401126	Human Rights	3	0	3	-	1305302	Advanced Cloud Computing	3	0	3	1305211
1401117	Islam and Contemporary Issues	3	0	3	-	1302384	Software Analysis and Design	2	2	3	1301305
1401118	Ethics in Islam	3	0	3	-	1305311	Infrastructure Security Using Linux	2	2	3	1301326
1211110	Art Education	3	0	3	-	1305312	Data and Software Security Ⓢ	3	0	3	1305213
1501163	Introduction to the Future	3	0	3	-	1305313	Encryption Theory Ⓢ	3	0	3	1305213
1401130	Sports and Health	3	0	3	-	1305314	Digital Forensic	2	2	3	1305212
1401131	Introduction to Sociology	3	0	3	-	1305315	Cloud Computing Security	2	2	3	1305302
1401127	Environmental Development	3	0	3	-	1305491	Graduation Project (1)	0	2	1	Pass. 90 Cr. Hrs. + 1302384
1401210	Arabic Language (2)	3	0	3	1401110	1305492	Graduation Project (2)	0	4	2	1305491
1401220	English Language (2)	3	0	3	1401120	1305401	Penetration Testing	2	2	3	1305313
1501127	Green Energy	3	0	3	-	1305402	Data Integrity and Authentication Ⓢ	3	0	3	1301305
1501128	Communication and Social Media Technology	3	0	3	-	1301341	Artificial Intelligence	2	2	3	1301203
1501154	Health Education	3	0	3	-	1302338	Advanced Internet Computing	2	2	3	1301305+1301236
1501164	Digital Culture	3	0	3	-	1305403	Data Analytics in Cloud Computing and Cybersecurity	2	2	3	1501212+1305302
1401151	Campus Life Ethics	3	0	3	-	1305368	Field Training	0	0	0	Pass. 90Cr. Hrs.
1401221	Foreign Languages	3	0	3	-	<b>Total</b>		<b>55</b>	<b>34</b>	<b>72</b>	
					Ⓢ Concurrence / Simultaneous						
					Ⓢ Blended: The course is taught in the combined format which is faceted and electronically asynchronous remotely						
<b>Second: Faculty Requirements (24) Credit Hours</b>					<b>(b) Elective: (9) Credit Hours</b>						
1301106	Structured Programming	2	2	3	-	1305418	Advanced Technologies in Cloud Computing	2	2	3	Dept. Approval
1301108	Object-Oriented Programming (1)	2	2	3	1301106	1305411	Advanced Tools in Cybersecurity and Cloud Computing	2	2	3	Dept. Approval
1301111	Discrete Structures (1) Ⓢ	3	0	3	-	1305412	Special Topics in Cybersecurity and Cloud Computing	3	0	3	Dept. Approval
1301266	Technical Writing and Communication Skills Ⓢ	3	0	3	1401120	1301466	Cloud Computing and Big Data	2	2	3	1301341+13001305
1501110	Calculus (1)	3	0	3	-	1305413	Cyberwarfare	3	0	3	1305314
1301270	Numerical Analysis	3	0	3	1501110	1305417	Cloud Computing and Virtualization Technology	2	2	3	1305211
1301150	Linear Algebra Ⓢ	3	0	3	1501110	1305415	Ethical Hacking	2	2	3	1305314
1501212	Probability and Statistics	3	0	3	1501110	1305410	Machine Learning for Cybersecurity	3	0	3	1301341
<b>Total</b>		<b>22</b>	<b>4</b>	<b>24</b>		1305414	Securing Blockchain and Cryptocurrency	2	2	3	1305313
* Non-Jordanian students may study any course from university elective instead of the Military Science Course.											
** All students are subjected to tests in English, Arabic and Computer Skills. Those who fail in any of the given tests must enroll for remedial course(099) which will be considered out of their study plans.											
*** All students are subject to the community service course at zero hours and with a number of points that must be completed during the years of study as a requirement for graduation and according to instructions regulating the course.											
<input type="checkbox"/> All compulsory and elective university requirements are studied in full electronic form remotely (synchronous and asynchronous)											
<b>Third: Free Electives (3) Credit Hours</b>											
The student can choose any subject offered by the university faculties											

This Study Plan is to be followed as of the beginning of the first semester 2021/2022