Study Plan for Bachelor Degree in

Information Security and Cybersecurity

(132 Credit Hours)

Philadelphia University
Faculty of Information Technology

Department of Information Security and Cybersecurity
(2021/2022)

First: University Requirements (27 Credit Hours)
a- University Compulsory: (18 Credit Hours)

Module No.	Module Name	Credit Hours	Prereq.	Mark
111100	Military Sciences **	3	----	
111101	National Education	3	----	
114103	Communication skill (Arabic language)	3	114099	
115102	Leadership and social responsibility	1	----	
130107	Communication skills (English 1)	3	130099	
130108	Communication skills (English 2)	3	130107	
170101	Life Skills	1	----	
330103	Leadership and innovation	1	----	

** Compulsory for Jordanian students and elective for Non-Jordanians

b- University Electives: (9 credit hours)

Module No.	Module Name	Credit Hours	Prereq.	Mark
111133	(1)Thought and Human Civilization	3	---	
140111	(1)Language Skills	3	---	
140112	(2)Language Skills	3	---	
170102	Thinking skill	3	---	
670101	development and environment	3	---	
320104	Economic culture	3	---	
330111	Introduction to Project Management	3	---	
420140	Human Rights	3	---	
420143	Legal Culture	3	---	
750101	Digital culture	3	---	
750102	Data analysis skills	3	---	
910102	Health Education	3	---	

Second: Faculty Requirements   (24 Credit Hours)

Module No.	Module Name	Credit hours	Prereq.	Mark
0721223	Object Oriented Programming *	3	0750114	
0721250	Computing Ethics and technical writing	3	0750114	
0721345	Mobile computing technology	3	0731213	
0731110	Introduction to Information Systems and Technology	3	--	
0731213	Introduction to Web Programming	3	0750113	
0750113	Programming Fundamentals (1) *	3	--	
0750114	Programming Fundamentals (2) *	3	0750113	
0750215	Visual Programming *	3	0721223	

Third: Major Requirements   (81 Credit Hours)

a- Compulsory Modules   (45 Credit Hours)

Module No.	Module Name	Credit hours	Prereq.	Mark
0790110	Information Security Fundamentals	3	-----	
0790211	Principles of Cryptography	3	0750120	
0790220	Programming Language in Information Security*	3	0721223	
0790312	Database Administration Security *	3	0731221	
0790321	Cyber Crimes and Networks	3	0790220	
0790322	Wireless Computer Networks	3	0731340	
0790323	Linux Operating Systems *	3	0731340	
0790324	Information Security Protocols	3	0731340	
0790325	Forensic and Investigations *	3	0790321	
0790330	Practical Training **	3	90 hours	
0790420	Network Operating Systems *	3	0790323	
0790421	Networks Surveillance and Documentations *	3	0790324	
0790422	Networks Security *	3	0790324	
0790423	Information Security Risks Management	3	0790422	
0790440	Research Project 1 *	1	90 hours	
0790441	Research Project 2 *	2	0790440	

b- Supplementary Requirements   (27 Credit Hours)

Module No.	Module Name	Credit hours	Prereq.	Mark
0250101	Differentiation and Integration(1)	3	---	
0250241	Linear Algebra (1)	3	0250101	
0250231	Introduction to Statistics and Probabilities	3	---	
0721224	Data Structures *	3	0721223	
0731221	Database Fundamentals *	3	0721223	
0731321	Systems Analysis and Design	3	0731221	
0731340	Computer Networks Fundamentals *	3	0790110	
0750120	Discrete Mathematics	3	0750099	
0750323	Algorithms	3	0721224	

c- Elective Modules   (9 Credit Hours)

Module No.	Module Name	Credit hours	Prereq.	Mark
0750352	Data science and artificial intelligence	3	0750114	
0790326	Intrusion Detection and Prevention Systems *	3	0790321	
0790424	Mobile Devices Security	3	0790322	
0790426	Social Engineering	3	790321	
0790427	Special topics in Information & Cyber Security	3	Dept Approval	
0790428	CryptoCurrency and BlockChain Technology	3	0790211	
0790429	Ethical Hacking	3	790325	

*All major modules include at least 25% Practical work, Tutorial, Lab., and Assignment

All students must apply for exam in Arabic and English languages and computer

Date: 3/08/2021