



Al-Ahliyya Amman University
Faculty of Information Technology
(132) Credit Hours
Study Plan (2019-2020) for Bachelor of
Science in Networks & Information Security

First: University Requirements: (24) Credit Hours

1) Compulsory University Requirements (12) Credit Hours

Course No	Course Title	Cr.H	Prerequisite	Exception
A0161101	Arabic Communication Skills	3	A0161100	-
A0161201	English Communication Skills	3	A0161200	-
A0161301	National Education	3	-	-
A0161401	Military Sciences	3	-	Non- Jordanian

2) Elective University Requirements (12) Credit Hours

A) Group 1 (6) Credit Hours

Course No	Course Title	Cr.H	Exception
A0161501	Islamic Culture	3	-
A0161601	Contemporary Issues	3	-
A0161701	History of Jordan and Palestine	3	-
A0161901	Media and Public Relations	3	-
A0411601	Legal Education and Human Rights	3	Law Students
A0161703	Archaeology and Tourism in Jordan	3	Marketing Students

B) Group 2 (6) Credit Hour

Course No	Course Title	Cr.H	Exception
A0161602	Critical Thinking Skills	3	-
A0161603	Entrepreneurship Skills	3	-
A0161801	Environment and Public Safety	3	-
A0181100	Sport and Health	3	Physical and Health Education Students
A0612303	Community Health	3	Nursing Students
A0871103	Principles of Renewable Energy	3	Electrical Engineering Students

Community Service requirement is a mandatory requirement (10) hours of service.

* This course must be successfully passed in order to advance to any of the succeeding courses

Second: Faculty Compulsory Requirements (21) Credit Hours

Course No	Course Title	Cr.H	Prerequisite	Concurrent
A0111101	Mathematics (1)	3	-	-
A0311101	Discrete Mathematics	3	-	-
A0311201	Introduction to Information Technology	3	-	A0331700
A0311202	Introduction to Programming*	3	A0311201	-
A0311203	Introduction to Programming Lab	1	-	A0311202
A0312101	Data Structures	3	A0312201	-
A0312201	Object Oriented Programming	3	A0311202	-
A0312202	Object Oriented Programming Lab	1	-	A0312201
A0314501	Ethical and Professional Issues in Computing	1	Pass 80 Cr. Hrs.	-

Third: Major Requirements (87) Credit Hours

A) Compulsory Major Requirements (52) Credit Hours

Course No	Course Title	Cr.H	Prerequisite	Concurrent
A0341301	Networks and Information Security Essentials	3	A0311201	
A0342301	Computer Networks*	3	A0341301	
A0342302	Computer Networks Lab	1		A0342301
A0342303	Cybersecurity	3	A0342301	
A0342401	Advanced Internet Protocols	3	A0342301	
A0342402	Wireless Networks and Security	3	A0342301	
A0342403	Wireless Networks and Security Lab	1		A0342402
A0343301	Cloud Computing and Security	3	A0342301	
A0343401	Networks Management and Monitoring	3	A0342301	
A0343402	Networks Servers and Services Administration	3	A0342301	
A0343403	Networks Protocols	3	A0342301	
A0343404	Networks Protocols Lab	1		A0343403
A0343405	Computer Networks Design	3	A0342301	
A0343501	Networks Security	3	A0342303	
A0343502	Networks Security Lab	1		A0343501
A0343503	Encryption Theory	3	A0342303	
A0343504	Ethical Hacking	3	A0342303	
A034401	Networks Programming	3	A0312201 + A0342301	
A0344501	Digital Forensics	3	A0342303	
A0344601	Practical Training	0	Pass 90 Cr. Hrs.	
A0344602	Graduation Project (1)	1	Pass 90 Cr. Hrs.	
A0344603	Graduation Project (2)	2	Pass 90 Cr. Hrs.	A0344602

B) Ancillary Major Requirements (26) Credit Hours

Course No	Course Title	Cr.H	Prerequisite	Concurrent
A0111103	Statistics and Probability	3	A0111101	-
A0112101	Linear Algebra	3	A0111101	-
A0311301	Digital Logic Design	3	A0311101	-
A0312203	Visual Programming	3	A0312201	-
A0312401	Fundamentals of Databases	3	A0311202	-
A0312402	Fundamentals of Databases Lab	1	-	A0312401
A0312403	Systems Analysis and Design	3	A0312401	-
A0313201	Internet Applications Development (1)	3	A0312401	-
A0313202	Internet Applications Development Lab (1)	1	-	A0313201
A0313301	Operating Systems	3	A0342301	-

C) Elective Major Requirements (9) Credit Hours

Course No	Course Title	Cr.H	Prerequisite	Concurrent
A0313203	Internet Applications Development (2)	3	A0313201	-
A0313403	Introduction to Data Science	3	A0312401	-
A0314301	Parallel Computing and Distributed Systems	3	A0313301	-
A0334503	Software Project Management	3	A0312403	-
A0342304	Introduction to Linux System	3	A0341301	-
A0344301	Internet of Things and Security	3	A0313201	-
A0344402	Selected Topics in Networks and Information Security (1)	3	A0342303	-
A0344502	Selected Topics in Networks and Information Security (2)	3	A0342303	-
A0344503	Information Systems Auditing	3	A0342303	-

Fourth: Remedial Requirements (to a student who has not passed the exam level)

Course No	Course Title	Cr.H	Prerequisite
A0161100	Remedial Arabic Language	3	-
A0161200	Remedial English Language	3	-
A0331700	Remedial Computer Skills	3	-



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