

Al-Ahliyya Amman University
Faculty of Information Technology
(132) Credit Hours

Study Plan (2021-2022) 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 | Prerequisite | 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 | Prerequisite | 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 is a mandatory requirement of (10) hours.

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



Ref.: Deans' Council Session (46/2020-2021) Decision No: 26
 Date: 16/08/2021



Second: Faculty Compulsory Requirements (21) Credit Hours

| Course No | Course Title | Cr.H | Prerequisite | Concurrent |
|-----------|--|------|--------------|------------|
| A0111101 | Mathematics (1) | 3 | - | - |
| A0311101 | Discrete Mathematics | 3 | - | - |
| A0371201 | Introduction to Information Technology | 3 | - | A0331700 |
| A0331202 | Introduction to Programming* | 3 | A0371201 | A0331203 |
| A0331203 | Introduction to Programming Lab | 1 | - | A0331202 |
| A0341301 | Networks and Information Security Essentials | 3 | A0371201 | - |
| A0312201 | Object Oriented Programming | 3 | A0331202 | A0312202 |
| A0312202 | Object Oriented Programming Lab | 1 | - | A0312201 |
| A0334600 | Ethical and Professional Issues in Computing | 1 | A0331202 | - |

Third: Major Requirements (87) Credit Hours

A) Compulsory Major Requirements (49) Credit Hours

| Course No | Course Title | Cr.H | Prerequisite | Concurrent |
|-----------|--|------|----------------------|------------|
| A0342301 | Computer Networks* | 3 | A0341301 | A0342302 |
| A0342302 | Computer Networks Lab | 1 | - | A0342301 |
| A0342303 | Cybersecurity | 3 | A0342301 | - |
| A0342401 | Advanced Internet Protocols | 3 | A0342301 | - |
| A0342402 | Wireless Networks and Security | 3 | A0342301 | A0342403 |
| 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 |
| A0343404 | Networks Protocols Lab | 1 | - | A0343403 |
| A0343405 | Computer Networks Design | 3 | A0342301 | - |
| A0343501 | Networks Security | 3 | A0342303 | A0343502 |
| A0343502 | Networks Security Lab | 1 | - | A0343501 |
| A0343503 | Encryption Theory | 3 | A0342303 | - |
| A0343504 | Ethical Hacking | 3 | A0342303 | - |
| A0344401 | 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 (29) 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 | - |
| A0312101 | Data Structures * | 3 | A0312201 | - |
| A0312203 | Visual Programming | 3 | A0312201 | - |
| A0312401 | Fundamentals of Databases | 3 | A0331202 | A0312402 |
| A0312402 | Fundamentals of Databases Lab | 1 | - | A0312401 |
| A0312403 | Systems Analysis and Design | 3 | A0312401 | - |
| A0313201 | Internet Applications Development (1) | 3 | A0312401 | A0313202 |
| 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 |
|-----------|--|------|----------------|------------|
| A0344503 | Information Systems Auditing | 3 | A0342303 | - |
| A0342304 | Introduction to Linux System | 3 | A0341301 | - |
| A0344301 | Internet of Things and Security | 3 | A0313201 | - |
| A0342501 | Programming Language in Cybersecurity | 3 | A0312201 | - |
| A0344402 | Selected Topics in Networks and Information Security (1) | 3 | Dept. Approval | - |
| A0344502 | Selected Topics in Networks and Information Security (2) | 3 | Dept. Approval | - |
| A0313203 | Internet Applications Development (2) | 3 | A0313201 | - |

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 | - |