

Al-Ahliyya Amman University
Faculty of Information Technology
(132) Credit Hours
Study Plan 2014-2015 for Software
Engineering Major



First: University Requirements: (27) Credit Hours

1) Compulsory University Requirements (12) Credit Hours

| Course No | Course Title | Cr. Hr. | Prerequisite | Exception |
|-----------|---|---------|--------------|----------------|
| 0161101 | Arabic language Communication Skills (1) | 3 | 0161100 | - |
| 0161200 | Military Sciences | 3 | - | Non- Jordanian |
| 0161201 | National Education | 3 | - | - |
| 0121131 | English language Communication Skills (1) | 3 | 0171100 | - |

2) Elective University Requirements (15) Credit Hours

A) Humanities (6) Credit Hours

| Course No | Course Title | Cr. Hr. | Prerequisite | Exception |
|-----------|---|---------|--------------|--------------|
| 0152102 | English language Communication Skills (2) | 3 | 0121131 | - |
| 0161300 | Islamic Culture | 3 | - | - |
| 0162102 | Arabic language Communication Skills (2) | 3 | 0161101 | - |
| 0162301 | History of Jordan and Palestine | 3 | - | - |
| 0411100 | Human Rights | 3 | - | Law Students |

B) Social and Economic Sciences (6) Credit Hours

| Course No | Course Title | Cr. Hr. | Prerequisite | Exception |
|-----------|----------------------------|---------|--------------|---------------------------|
| 0132200 | Psychology and Life | 3 | - | Psychology students |
| 0143301 | Entrepreneurship | 3 | - | - |
| 0161301 | Islam and Life | 3 | - | - |
| 0162302 | Media and Public Relations | 3 | - | - |
| 0561500 | Tourism and Archaeology | 3 | - | Hotels & Tourism students |

C) Sciences, Technology, and Health (3) Credit Hours

| Course No | Course Title | Cr. Hr. | Prerequisite | Exception |
|-----------|---------------------------------|---------|--------------|-----------|
| 0161303 | Sport and Health | 3 | - | - |
| 0162305 | Environmental and Public Safety | 3 | - | - |
| 0162306 | Science and Life | 3 | - | - |

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

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



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Second: Compulsory Faculty Requirements (25) Credit Hours

| Course No | Course Title | Cr. Hr. | Prerequisite | Concurrent |
|-----------|--|---------|--------------|------------|
| 0111101 | Mathematics (I) | 3 | - | - |
| 0311203 | Introduction to Programming * | 2 | 0331202 | - |
| 0311204 | Introduction to Programming Lab | 1 | - | 0311203 |
| 0311205 | Object Oriented Programming | 3 | 0311203 | - |
| 0311206 | Object Oriented Programming Lab | 1 | - | 0311205 |
| 0312101 | Discrete Mathematics | 3 | - | - |
| 0331202 | Computer Skills (Information Technology) | 3 | - | 0331200 |
| 0332602 | Communication Skills and Technical Writing | 3 | 0121131 | - |
| 0334402 | Entrepreneurship and Professional Ethics | 3 | 0332602 | - |
| 0342102 | Data Structures * | 3 | 0311205 | - |

Third: Major Requirements (80) Credit Hours

A) Compulsory Major Requirements (30) Credit Hours

| Course No | Course Title | Cr. Hr. | Prerequisite | Concurrent |
|-----------|---|---------|-----------------|------------|
| 0332401 | Introduction to Software Engineering * | 3 | 0311205 | - |
| 0332402 | Requirements Engineering | 3 | 0332401 | - |
| 0332403 | Software Construction and Documentation | 3 | 0332401 | - |
| 0332404 | Software Construction and Documentation Lab | 1 | - | 0332403 |
| 0332405 | Human Computer Interaction | 3 | 0332401 | - |
| 0333401 | Software Testing and Quality Assurance | 3 | 0332401 | - |
| 0333402 | Software Testing and Quality Assurance Lab | 1 | - | 0333401 |
| 0333403 | Software Design and Architecture | 3 | 0332403 | - |
| 0333404 | Software Design and Architecture Lab | 1 | - | 0333403 |
| 0334401 | Software Project Management | 3 | 0332401 | - |
| 0334701 | Practical Training | 3 | Pass 90 Cr. Hr. | - |
| 0334702 | Graduation Project | 3 | Pass 90 Cr. Hr. | - |

B) Ancillary Major Requirements (41) Credit Hours

| Course No | Course Title | Cr. Hr. | Prerequisite | Concurrent |
|-----------|--|---------|--------------|------------|
| 0312201 | Visual Programming | 3 | 0311203 | - |
| 0312301 | Digital Logic Design | 3 | 0312101 | - |
| 0312603 | Statistics and Probability | 3 | 0111101 | - |
| 0312604 | Numerical Analysis and Programming | 3 | 0111101 | - |
| 0313101 | Algorithms Analysis and Design | 3 | 0342102 | - |
| 0313201 | Internet Applications Development | 3 | 0313501 | - |
| 0313202 | Internet Applications Development Lab | 1 | - | 0313201 |
| 0313303 | Computer Organization and Architecture | 3 | 0312301 | - |
| 0313501 | Database Management Systems | 3 | 0311205 | - |
| 0313203 | E-Commerce and Internet Programming | 3 | 0312201 | - |
| 0313502 | Systems Analysis and Design | 3 | 0332401 | - |
| 0313504 | Database Applications | 3 | 0313501 | - |
| 0314301 | Operating Systems | 3 | 0313303 | - |
| 0342401 | Computer Networks * | 3 | 0312301 | - |
| 0342402 | Computer Networks Lab | 1 | - | 0342401 |

C) Elective Major Requirements (9) Credit Hours

| Course No | Course Title | Cr. Hr. | Prerequisite | Concurrent |
|-----------|---|---------|--------------|------------|
| 0311603 | Linear Algebra | 3 | 0111101 | - |
| 0312605 | Operations Research | 3 | 0312101 | - |
| 0313102 | Theory of Computation | 3 | 0312101 | - |
| 0313503 | Multimedia Information Systems | 3 | 0311203 | - |
| 0314101 | Mobile Applications Development | 3 | 0311205 | - |
| 0314202 | Cloud Computing | 3 | 0342401 | - |
| 0332601 | Engineering Economics | 3 | 0332401 | - |
| 0334403 | Software Maintenance | 3 | 0332401 | - |
| 0343501 | Information Security and Privacy | 3 | 0342401 | - |
| 0334408 | Selected Topics in Software Engineering | 3 | 0332403 | - |

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

| Course No | Course Title | Cr. Hr. | Prerequisite |
|-----------|-----------------------------|---------|--------------|
| 0161100 | Arabic language (Remedial) | 3 | - |
| 0171100 | English language (Remedial) | 3 | - |
| 0331200 | Computer Skills (Remedial) | 3 | - |

