



Software Engineering Department
Study Plan for Bachelor Degree
(132 Credit Hours)
(2005-2006)

First: University Requirements: 27 Credit Hours

1. University Compulsory: - 24 credit hours for Jordanians
- 21 credit hours for Non-Jordanians

Course No.	Course Name	Cr.	Pre-req.
110101	Arabic Skills (1)	3	-
111100	Military Science *	3	-
111101	National Education	3	-
111133	Culture and Civilization (1)	3	-
130101	English Skills (1)	3	-
130102	English Skills (2)	3	130101
710101	Computer Skills (1)	3	-
710102	Computer Skills (2)	3	710101

2. University Electives: - 3 credit hours for Jordanians
- 6 credit hours for Non-Jordanians

110102	Arabic Skills (2)	3	---
111111	Introduction to Sociology	3	---
111112	Introduction to Psychology	3	---
111113	Principles of Logic	3	---
111121	Issues in Contemporary Thoughts	3	---
111135	Culture and Civilization (2)	3	---
111142	Communication and Society	3	---
111153	Science and Society	3	---
140103	Foreign Language (French 1)	3	---
140104	Foreign Language (Italian 1)	3	---
140106	Foreign Language (Hebrew 1)	3	---
180117	History of Art	3	---
210121	History of Science	3	---
240141	Principles of Nutrition	3	---
240151	Man and Environment	3	---
330101	Introduction to Management	3	---
340101	Principles of Macroeconomics	3	---
420150	Human Rights	3	---
530100	Principles of Therapeutics	3	---
620105	Automobile Essentials	3	---

Second: Faculty Requirements: 21 Credit Hours

712111	Programming Fundamentals	3	---
712271	Multimedia Systems	3	710102
712272	World Wide Web: Concepts and Programming	3	710102
722282	Professional Issues in Computing and Information Technology	3	---
732251	Introduction to Information Systems	3	710101
751252	Fundamentals of Artificial Intelligence	3	712111
761161	Fundamentals of Information Technology	3	710101

Third: Supplementary Requirements: 12 Credit Hours

210101	Mathematics (1)	3	---
210103	Mathematics for Computing	3	210101
210104	Discrete Structures	3	---
210231	Introduction to Statistics and Probabilities	3	---

Fourth: Major Requirements: 72 Credit Hours

1. Compulsory Modules: 66 Credit Hours

712231	Computer Organization and Architecture	3	210103+761161
712232	Principles of Operating Systems	3	712231+722211
712343	Concurrent and Distributed Programming	3	712232
722112	Object Oriented Paradigms	3	712111
722181	Introduction to Software Engineering	3	712111
722211	Object Oriented Data Structures	3	722112
722283	Software Requirements	3	722181
722284	Software Design 1	3	722283
722285	Software Process and Quality	3	722283
722341	Fundamentals of Computer Networks and Telecommunication	3	722211
722384	Software Design 2	3	722284
722385	Software Construction and Evolution	3	722284+761261
722386	Software Verification and Validation	3	722385
722398	Practical Training **	3	722384
722486	Software Reengineering Techniques		722384
722487	Formal Methods in Software Engineering	3	210104+722386

722488	Software Management	3	722386
722499	Graduation Project	3	722398
751321	Concepts of Programming Languages	3	210104+722211
751322	Design and Analysis of Algorithms	3	210103+722211
751472	Computer Modeling and Simulation	3	210231+722211
761261	Database Fundamentals	3	(722211 or concurrently) + 210104

2. Elective Modules: 6 Credit Hours

712471	Graphical User Interface	3	722211+722181
722431	Embedded and Real Time Systems Design	3	722384+712343
722441	Telecommunication Software Design	3	722341+722384
722451	Information Systems Analysis and Design	3	732251+732384
722452	Intelligent Systems Design	3	751252+722384
722471	Multimedia Software Engineering	3	722384+712271 +712272
722472	Financial and E-Commerce Systems Development	3	722384+761161
722489	CASE Tools Development	3	722384

Note: All specialized modules include practical work of at least 25% of their total weight.

* Military Sciences module 111100 is compulsory for Jordanian students and elective for Non-Jordanians.

** Registration on practical training module is according to Faculty regulations.

Date: 13 / 2 / 2005