



**First: University Requirements (27 Credit Hours)**

**1- University Compulsory: ( 12 Credit Hours )**

Module No.	Module Name	Credit hours	Prereq.	Mark
110101	Arabic Language Skills (1)	3	----	
111100	Military Sciences	3	----	
111101	National Education	3	----	
130101	English Language Skills (1)	3	----	

**2- University Electives : ( 15 credit hours )**

(Each student studies (15) credit hours from the following fields: one module from each field as minimum and two modules as maximum)

a. Humanity Sciences Field (3 - 6) credit hours				
Module No.	Module Name	Credit hours	Prereq.	Mark
110102	Arabic Language Skills (2)	3	---	
130103	English Language Skills (3)	3	130102	
140101	French Language Skills (1)	3	---	
140104	Foreign Language (Italian 1)	3	---	
140106	Foreign Language (Hebrew 1)	3	---	
b. Social and Economical Sciences Field (3 - 6) credit hours				
111111	Introduction to Sociology	3	---	
111112	Introduction to Psychology	3	---	
111133	Culture and Civilization (1)	3	----	
111142	Communication and Society	3	---	
115255	Culture of Development	3	---	
c. Science, Technology, Agriculture, and Health Field (3-6) Crd Hrs				
910101	Health Promotion of Individuals and the Community	3	---	
910105	Principles of First Aid	3	---	
240151	Man and Environment	3	---	
620105	Automobile Essentials	3	---	
750111	Computer Skills	3	----	

**Second: Faculty Requirements (24 Credit Hours)**

Module No.	Module Name	Credit hours	Prereq.	Mark
130102	English Language Skills (2)	3	130101	
721120	Object-Oriented Paradigms	3	750112	
721240	Computing Ethics	3	731150	
731150	Introduction to Information Systems and Technology	3	750112	
731270	Introduction to Web Programming	3	750112	
750112	Programming Fundamentals	3	--	
761211	Windows Programming	3	721120	
761272	Multimedia Systems	3	--	

**Third: Major Requirements (81 Credit Hours)**

**a- Compulsory Modules (63 Credit Hours)**

Module No.	Module Name	Credit hours	Prereq.	Mark
721210	Introduction to Software Engineering	3	731150	
721221	Object Oriented Data Structures	3	721120+210104	
731332	Systems Analysis and Design	3	760261 (or concurrently)	
750223	Theory of Computation	3	210104	
750231	Logic Circuits Design	3	--	
750232	Computer Architecture	3	731150+750231	
750321	Concepts of Programming Languages	3	721221	
750322	Design and Analysis of Algorithms	3	210103+721221	
750324	Compiler Construction	3	750223	
750333	Principles of Operating Systems	3	750232	
750334	Advanced Operating Systems	3	750333	
750351	Fundamentals of Artificial Intelligence	3	721221	
750398	Practical Training *	3	721210	
750412	Advance programming	3	761211	
750425	Advanced Data Structures and Algorithms	3	750322	
750444	Information and Computer Networks Security	3	761340	
750461	Advanced Databases	3	731332	
750474	Digital Image Processing	3	750322	

Module No.	Module Name	Credit hours	Prereq.	Mark
750499	Research Project	3	Dept. Agmt. + 90 hours	
760261	Database Fundamentals	3	721221	
761340	Fundamentals of Computer Networks	3	721221	

**b- Elective Modules (6 Credit Hours)**

Module No.	Module Name	Credit hours	Prereq.	Mark
721321	Concurrent and Distributed Programming	3	721221	
750441	Advanced Computer Networks	3	761340	
750452	Knowledge-Based Systems	3	750351	
750491	Special Topics	3	Dept. Agmt.	

**c- Supplementary Requirements (12 Credit Hours)**

Module No.	Module Name	Credit hours	Prereq.	Mark
210101	Mathematics (1)	3	--	
210103	Mathematics for Computing	3	210101	
210104	Discrete Structures	3	--	
210231	Introduction to Statistics and Probabilities	3	--	

All compulsory major modules include 25% practical work

\* Registration for practical training module is implanted according to the Faculty regulations.

All students have to apply for the level exam in Arabic and English languages and computer. If a student failed in any of these exams (mark is less than 50%) then they have to pass the preliminary module for that one.

Date: 11/11/2009