



Applied Science University (Private)
Faculty of Information Technology
♦ Curriculum for Bachelor of Software Engineering
Academic Year 2017/2018



Graduation Requirements 132 Credit Hours

First: University Requirements (27 Credit Hours)					Fourth: Specialization Requirements (81 Credit Hours)						
(a) Compulsory: (15 Credit Hours)					(a) Compulsory: (72 Credit Hours)						
Course Number	Course Name	Hours		Credit Hours	Prerequisites	Course Number	Course Name	Hours		Credit Hours	Prerequisites
		Theory	Lab					Theory	Lab		
100100	Military Science*			3	-	1301120	Digital Systems	3	0	3	1301110
701101	The Islamic Culture			3	-	1301203	Data Structures and Algorithms	2	2	3	1301108 + 1301110
1401110	Arabic Language (1)**			3	-	1301208	Object-Oriented Programming (2)	2	2	3	1301108
1401120	English Language (1)**			3	-	1301222	Computer Organization and Architecture	3	0	3	1301120
1401151	University Ethics			3	-	1301236	Web-Based Programming	2	2	3	1301108
Total				15		1301304	Visual Programming	2	2	3	1301305
(b) Elective: 9 Credit Hours						1301305	Database and Application of Database	2	2	3	1301203
402104	Entrepreneurship in Business			3	-	1301310	Design and Analysis of Algorithms	3	0	3	1301203
501114	Palastinian Issue and Contemporary Arab History			3	-	1301326	Operating Systems	3	0	3	1301203
602143	Human Rights			3	-	1301336	Data Communications and Computer Networks	3	0	3	1301326
701103	Islam and Contemporary Issues			3	-	1302281	Introduction to Software Engineering	3	0	3	1301108
701104	Ethics in Islam			3	-	1302338	Advanced Internet Computing	2	2	3	1303236 + 1301305
1211110	Art Education			3	-	1302360	Database Systems Administration	3	0	3	1301305
1401111	Introduction to Library Science			3	-	1302368	Field Training	0	0	0	Pass. 90Cr. Hrs.
1401130	Sports and Health			3	-	1302382	Software Requirements Engineering	2	2	3	1302281
1401131	Introduction to Sociology			3	-	1302383	Project Management	2	2	3	1302281
1401132	Human and the Environment			3	-	1302384	Software Analysis and Design	2	2	3	1302382 + 1301305 @
1401133	Introduction to Psychology			3	-	1302452	Human-Computer Interaction	3	0	3	1302281
1401150	National Education			3	-	1302481	Component-Based Software Engineering	3	0	3	1302384
1401210	Arabic Language (2)			3	1401110	1302485	Software Maintenance and Reengineering	3	0	3	1302493
1401220	English Language (2)			3	1401120	1302486	Software Testing	3	0	3	1302384
1501113	Arab and Muslims Sciences			3	-	1302491	Graduation Project (1)	0	2	1	Pass. 90 Cr. Hrs.+ 1302384
1501126	First Aids			3	-	1302492	Graduation Project (2)	0	4	2	1302491
1501127	Green Energy in Our Life			3	-	1302493	Software Development and Documentation	3	0	3	1302384
1501128	Communication and Social Media Technology			3	-	1302495	Software Quality Management	3	0	3	1302485 + 1302486
1501153	Nutrition in Health and Illness			3	-	1302496	Agile Methods	3	0	3	1302384
1501154	Health Culture			3	-	Total					
1501161	Digital Society			3	-	60 24 66					
					@ Concurrence / Simultaneous						
Second: Faculty Requirements (24) Credit Hours					(b) Elective: (9 Credit Hours)						
Course Number	Course Name	Hours		Credit Hours	Prerequisites	Course Number	Course Name	Hours		Credit Hours	Prerequisites
		Theory	Lab					Theory	Lab		
1301106	Structured Programming	2	2	3	-	1301301	Selective Programming Language	3	0	3	1301305
1301108	Object-Oriented Programming (1)**	2	2	3	1301106	1301340	Artificial Intelligence	3	0	3	-
1301111	Discrete Structures (1)	3	0	3	-	1301350	Multimedia Systems	2	2	3	1303236
1301150	Linear Algebra	3	0	3	1501110	1301371	Modeling and Simulation	3	0	3	1501212 + 1301203
1301266	Technical Writing & Communication Skills	3	0	3	1401120	1301411	Information Security	3	0	3	1301336
1301270	Numerical Analysis	3	0	3	1501110	1301455	Computer Graphics	2	2	3	1301310
1501110	Calculus (1)	3	0	3	-	1301460	Evolutionary Computing	0	0	0	-
1501212	Probability and Statistics	3	0	3	1501110	1301462	Mobile Computing	3	0	3	Dept. Approval
Total				22	4	24					
* Non-Jordanian students may study any course from university elective instead of the Military Science Course. ** All students are Course ed to tests in English, Arabic and Computer Skills. Those who fail in any of the given tests must enroll for remedial course(099) which will be considered out of their study plans.					1301463	Big Data Analysis	3	0	3	Dept. Approval	
					1301464	User Design Experience	3	0	3	Dept. Approval	
					1302337	E-Commerce	3	0	3	1301108	
					1302390	Software Architecture	3	0	3	1302384	
					1302392	Advanced Technologies and Tools in Software Engineering	3	0	3	Dept. Approval	
Third: Free Electives (3) Credit Hours					1302483	Real-Time and Embedded Systems	3	0	3	1301326	
The student can choose any Course offered by the university faculties					1302490	Special Topics in Software Engineering	3	0	3	Dept. Approval	

♦ This Study Plan is to be followed as of the beginning of the first semester 2017/2018

Updated: 11/9/2017