Applied Science Private University
Faculty of Information Technology
♦ Study Plan for the B.Sc. Program in Computer Science ꧂
Academic Year 2025-2026
(Graduation Requirements: 132 Credit Hours)

First: University Requirements (24) Credit Hours

A. Compulsory requirements (18) credit hours, which include the following subjects:

Subject Number	Subject Title	Credit Hours			Teaching Method ***	Prerequisites
		Theory	Lab	Total		
100103	Military Sciences*	3	0	3	E	-
1401116	Islamic Education	3	0	3	E	-
1401123	Communication skills (Arabic Language 1)**	3	0	3	E	-
1401124	Communication skills (English Language 1)**	3	0	3	E	-
1401146	Entrepreneurship and innovation	1	0	1	E	
1401147	Leadership and social accountability	1	0	1	E	⊕
1401148	Life Skills	1	0	1	E	
1401150	National Education*	3	0	3	E	-
	Total	**18**	**0**	**18**		

* Non-Jordanian students may study any course from university elective instead of the Military Science and National Education Courses.

** All students are subjected 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.

⊕ Concurrent

B. Elective requirements (6) credit hours, selected from the following subjects:

Subject Number	Subject Title	Theory	Lab	Total	Teaching Method ***	Prerequisites
1401129	Palastinian Cause & Contemp. Arab History	3	0	3	E	-
1401128	Art Education	3	0	3	E	-
1401118	Ethics in Islam	3	0	3	E	-
1401126	Human Rights	3	0	3	E	-
1401127	Environmental Development	3	0	3	E	-
1401130	Sports and Health	3	0	3	E	-
1401131	Introduction to Sociology	3	0	3	E	-
1401151	Campus Life Ethics	3	0	3	E	-
1401221	Foreign Languages	3	0	3	E	-
1401223	Communication skills (Arabic Language 2)**	3	0	3	E	1401123
1401224	Communication skills (English Language 2)**	3	0	3	E	1401124
1501127	Green Energy	3	0	3	E	-
1501128	Communication and Social Media Technology	3	0	3	E	-
1501154	Health Education	3	0	3	E	-
1501163	Introduction to the Future	3	0	3	E	-
1501164	Digital Culture	3	0	3	E	-

Second: Faculty Requirements (21) Credit Hours

Subject Number	Subject Title	Theory	Lab	Total	Teaching Method ***	Prerequisites
1301106	Structured Programming	2	2	3	F	-
1301108	Object-Oriented Programming (1)	2	2	3	F	1301106
1501167	Discrete Structures (1)	3	0	3	B	-
1401225	Computing Ethics and Technical Writing	2	0	2	B	1401124
1401226	English Language for Information Technology Student	1	0	1	B	1401124
1501230	Numerical Analysis	3	0	3	B	1501110
1501110	Calculus (1)	3	0	3	F	-
1501212	Probability and Statistics	3	0	3	B	1501110
	Total	**19**	**4**	**21**		

Third: Free Electives (3) Credit Hours

The student can choose any subject offered by the university faculties.

꧂ The student must perform 10 hours of community service during the period of his study and calculated as zero credit hours.

*** B: Blended   E: E-Learning   F: Face-to-Face   ⚙: Practical Project

Fourth: Specialization Requirements (84) Credit Hours

A. Compulsory requirements (75) credit hours:

Subject Number	Subject Title	Credit Hours			Teaching Method ***	Prerequisites
		Theory	Lab	Total		
1301120	Digital Systems	3	0	3	B	1501167
1301203	Data Structures and Algorithms	2	2	3	F	1301108+1501167
1301222	Computer Organization and Architecture	3	0	3	B	1301224
1301224	Microcomputer Systems and Assembly Language ⚙	3	0	3	B	1301120
1301236	Web-Based Programming	2	2	3	F	1301108
1301304	Visual Programming	2	2	3	F	1301305
1301305	Database and Application of Database	2	2	3	F	1301203
1301306	Basics of Electric Physics	3	0	3	B	1501121+1301120
1301307	Basics of Electric Physics Lab	0	2	1	F	⊕1301306
1301310	Design and Analysis of Algorithms	3	0	3	F	1301203
1301315	Theory of Computation	3	0	3	F	1301203
1301326	Operating Systems ⚙	3	0	3	B	1301203
1301369	Field Training	0	6	3	F	Pass. 90Cr. Hrs.
1301386	Information Systems Analysis and Design	2	2	3	F	1301305
1301401	Programming with Generative AI	2	2	3	F	1306305
1301415	Compiler Construction	3	0	3	B	1301315
1301468	Recent Trends in Computing	0	2	1	F	1301305
1301491	Graduation Project (1)	0	2	1	F	Pass. 90 Cr. Hrs. + 1301386
1301492	Graduation Project (2)	0	4	2	F	1301491
1302281	Introduction to Software Engineering	3	0	3	B	1301108
1302338	Advanced Internet Computing	2	2	3	F	1301236+ 1301305
1305130	Data Communications and Computer Networks	3	0	3	B	1301326
1305416	Information Security	3	0	3	B	1305330
1305421	Cloud Computing and Big Data	2	2	3	F	1306305 + 1301305
1306305	Artificial Intelligence	2	2	3	F	1301203
1307103	Linear Algebra	3	0	3	B	1501110
1501120	General Physics (1)	3	0	3	F	-
1501121	General Physics Lab (1)	0	2	1	F	⊕1501120
	Total	**57**	**36**	**75**		

B. Elective requirements (9) credit hours, selected from the following subjects:

Subject Number	Subject Title	Theory	Lab	Total	Teaching Method ***	Prerequisites
1301421	Parallel Programming	2	2	3	F	1301310
1301208	Object-Oriented Programming (2)	2	2	3	F	1301108
1301301	Selective Programming Language ⚙	3	0	3	F	1301305
1301209	Discrete Structures (2) ⚙	3	0	3	F	1501167
1301350	Multimedia Systems	2	2	3	F	1301236
1301371	Modeling and Simulation ⚙	3	0	3	F	1501212 + 1301203
1301392	Advanced Technologies and Tools in Computer Science ⚙	3	0	3	F	Dept. Approval
1301425	Advanced Operating Systems ⚙	3	0	3	F	1301326
1301440	Digital Image Processing ⚙	3	0	3	B	1301310
1301442	Data Mining ⚙	3	0	3	F	1301305
1301455	Computer Graphics	2	2	3	F	1301310
1301461	Machine Learning ⚙	3	0	3	F	1306305
1301462	Mobile Computing ⚙	3	0	3	F	Dept. Approval
1301464	User Design Experience	2	2	3	F	Dept. Approval
1301467	Business intelligence ⚙	3	0	3	F	1306305
1301490	Special Topics in Computer Science ⚙	3	0	3	F	Dept. Approval
1302337	Ecommerce	2	2	3	F	1301108
1302360	Database Systems Administration ⚙	3	0	3	F	1301305
1302370	Software Project Management	2	2	3	F	1302281

♦ This Study Plan is to be followed as of the beginning of the first semester 2025/2026   Update date: 24/07/2025