



AMMAN - JORDAN

المستوى الذهبي

جامعة كل العرب

Faculty of Arts and Science
Study Plan for the Bachelor Program in Chemistry
Academic Year 2022-2023
Graduation Requirements: (132) Credit Hours

I- University Requirements (24) Credit Hours				
A- Compulsory Courses (18) Credit Hours				
Article No.	Course Title	CH	PR	Teaching Method
100103	Military Sciences*	3	-	E
1401116	Islamic Education	3	-	E
1401123	Communication skills (Arabic 1)**	3	1401099	E
1401124	Communication skills (English 1)**	3	1401098	E
1401146	Entrepreneurship and innovation	1	concurrent	E
1401147	Leadership and social accountability	1		E
1401148	Life skills	1		E
1401150	National Education *	3	-	E

B- Elective Courses (6) Credit Hours				
501114	Palestinian & Contemp. Arab History	3	-	E
1211110	Art Education	3	-	E
1401118	Ethics in Islam	3	-	E
1401126	Human Rights	3	-	E
1401127	Environmental Development	3	-	E
1401130	Sports and Health	3	-	E
1401131	Introduction to sociology	3	-	E
1401151	Campus Life Ethics	3	-	E
1401221	Foreign Languages	3	-	E
1401223	Communication skills (Arabic 2)	3	1401123	E
1401224	Communication skills (English 2)	3	1401124	E
1501127	Green Energy	3	-	E
1501128	Communication & Social Media Technology	3	-	E
1501154	Health Education	3	-	E
1501163	Introduction to the future	3	-	E
1501164	Digital Skills	3	-	E

II- Free Course (3) Credit Hours	
The student can choose any subject offered by the university faculties	

III- Faculty Requirements (19) Credit Hours				
1501110	Calculus 1	3	-	F
1501120	General Physics 1	3	-	F
1501121	General Physics Lab 1	1	1501120 or sync.	F
1501143	General Biology 1	3	-	E
1501165	Computer Skills**	3	1501099	F
1501210	Calculus 2	3	1501110	F
1501212	Probability and Statistics	3	-	B

IV- Major Requirements (86) Credit Hours					
A- Compulsory Courses (68) Credit Hours					
Article No.	Course Title	CH	PR	Teaching Method	
1722100	General Chemistry 1	3	-	F	
1722101	General Chemistry Lab 1	1	1722100 or sync.	F	
1722102	General chemistry 2	3	1722100	F	
1722103	General Chemistry lab 2	1	1722102 or sync.	F	
1722201	Organic Chemistry 1	3	1722102	F	
1722202	Organic Chemistry lab1	2	1722201 or sync.	F	
1722203	Analytical Chemistry	3	1722102	F	
1722204	Analytical Chemistry lab	1	1722203 or sync.	F	
1722210	Physical chemistry 1	3	1722102	F	
1722211	Physical chemistry lab1	2	1722210 or sync.	F	
1722221	Inorganic Chemistry 1	3	1722102	F	
1722301	Organic Chemistry 2	3	1722201	B	
1722302	Organic Chemistry lab2	2	1722301 or sync.	F	
1722310	Physical chemistry 2	3	1722210	B	
1722311	Physical chemistry lab2	1	1722310 or sync.	F	
1722312	Instrumental Analysis 1	3	1722203	B	
1722313	Instrumental Analysis 2	3	1722312	B	
1722314	Instrumental Analysis Lab	1	1722313 or sync.	F	
1722321	Inorganic Chemistry 2	3	1722221	F	
1722322	Inorganic chemistry lab	2	1722321 or sync.	F	
1722410	Physical chemistry 3	3	1722310	F	
1722411	Systematic identification of Organic Compounds	3	1722301	F	
1722412	Electrochemistry	3	1722312	B	
1722420	Industrial Chemistry	3	1722301+1722221	B	
1722421	Inorganic Chemistry 3	3	1722321	B	
1722422	Chemical of Biomolecules	3	1722301	B	
1722423	Research Seminar in Chemistry	1	Dept. Approval	B	
1722490	Research Project in Chemistry	3	Dept. Approval	F	

B- Elective Courses (12) Credit Hours				
1722205	Computer Applications in Chemistry	3	1722102	B
1722315	Chemistry of Heterocyclic Compound	3	1722201	B
1722316	Natural Products chemistry	3	1722201	B
1722317	Quality control	3	1722203	B
1722318	Environmental Chemistry	3	1722203	B
1722319	Polymer Chemistry	3	1722422	B
1722332	Methods of teaching science	3	Dept. Approval	B
1722413	Organometallic chemistry	3	1722321	B
1722415	Solid state chemistry	3	1722410+1722421	B
1722424	Colloids and surface chemistry	3	1722410	B
1722425	Biochemistry	3	1722422	B
1722426	Nanotechnology techniques	3	1722310+ 1722321	B
1722427	Spectroscopic Identification Of Organic Compounds	3	1722422	B

V- Support Compulsory Courses from other departments (6) credit hours				
1501220	General Physics 2	3	1501120	F
1501203	Ordinary Differential Equations1	3	1501210	F

*Non Jordanian students may study two other courses of the study plan instead of (Military Science) and (National Education).
**All students are subject to the level exams in Arabic Language, English Language and Computer skills. Anyone who fails to succeed in any of these exams has to register in the Remedial Course (099) which will be considered out of their study plans.
***The student must perform 10 hours of community service during his study period/ (0) credit hour.

**** E : (Electronic).....B: (Blended).....F:(Face to Face)