



Study Plan For Bachelors Degree
Applied Chemistry
(Credit Hours 134)

(Second: Faculty Requirements) (Total 18 Credit Hours

(A. Faculty Compulsory Requirements (12 Credit Hours)

Prerequisite	Credit Hours	Delivery Method	Course Name	Course No
0270245	3		Organic Chemistry 3	0270341
0270341 or sync	2		Systematic Identification of Organic Co	0270342
0270221	3		Inorganic Chemistry 2	0270321
0216241	3		Instrumental Chemical Analysis	0270333
0270333 or sync	1		Practical Instrumental Chemical Analysis	0270334
0270251	3		Physical Chemistry 2	0270351
0270351 or sync	1		Practical Physical Chemistry2	0270352
0270341	2		Industrial Organic Chemistry	0270343
0270343 or sync	1		Practical Industrial Organic Chemistry	0270344
0270321	2		Industrial Inorganic Chemistry	0270323
0270323 or sync	1		Practical Industrial Inorganic Chemistry	0270324
0270245	2		Natural Products Chemistry	0270345
department's approval	1		Seminar and Scientific Writing	0270391
0270333	2		Methods of chemical separations	0270431
0270321	3		Chemistry of Materials and Nanoscience	0270422
0270342	2		Medicinal Chemistry	0270444
0270444 or sync	1		Practical Medicinal Chemistry	0270445
0270351	3		Physical Chemistry 3	0270451
Successfully Pass 90 Credit Hours	3		Field Training	0270492
0270333	1		Quality Control and Chemical Safety	0270433
0270341 or sync	2		Chemoinformatics	0270447

B. Elective Requirements (9 Credit Hours)s

Prerequisite	Credit Hours	Delivery Method	Course Name	Course No
0270345 or sync	3		Principles of green and environmental chemistry	270471
0240343	2		Food Chemistry	270361
270361 or sync	1		Practical Food Chemistry	270362
0240343	3		Toxicological Chemistry	270364
0270321	3		Organometallics	270425
0270343	3		Cosmetics	270441
	3		Methods for Teaching Science	270473

Prerequisite	Credit Hours	Delivery Method	Course Name	Course No
----	3	Physical	Calculus (1)	0216111
----	3	Physical	General Physics 1	0216131
216143or sync	3	Physical	General Chemistry 1	0216141
	3	Physical	General Biology 1	0216151

(6 Credit Hours)B. Faculty Elective Requirements

The student chooses 6 credit hours from the following subjects

Prerequisite	Credit Hours	Delivery Method	Course Name	Course No
216121	3	Online	Biostatistics	0216125
0216131	3	Blended	General Physics (2)	0216132
----	3	Blended	C++ Programming for Scientists	0750115

(Total 89 Credit Hours)Third: Major Requirements

(80 Credit Hours)A. Obligatory Requirements

Prerequisite	Credit Hours	Delivery Method	Course Name	Course No
0216111	3		Calculus (2)	250102
0216111	3		& Introduction to Probability Statistics	216121
0216141	3		General Chemistry 2	0216142
0216141	1		Practical General Chemistry (1)y	0216143
0216151	1		Practical General Biology (1)1	0240106
0216142	3		Organic Chemistry	0216243
0216243 or sync	1		Practical Organic Chemistry	0216244
0216142	3		Inorganic Chemistry 1	0270221
0270221 or sync	1		Practical Inorganic Chemistry 1	0270222
0216142	3		Analytical Chemistry	0216241
0216241 or sync	1		Practical Analytical Chemistry	0216242
250102	3		Ordinary Differential Equations	0250203
0216142	3		Physical Chemistry 1	0270251
0270251 or sync	1		Practical Physical Chemistry 1	0270252
0216243	3		Organic Chemistry 2	0270245
0270245 or sync	1		Practical Organic Chemistry 2	0270246
0270245	3		BioChemistry	0240343
0240343 or sync	1		Practical BioChemistry	0240344

(27 Credit Hours)First: University Requirement

(Credit Hours18)A. Compulsory Courses

Prerequisite	Credit Hours	Delivery Method	Course Name	Course No
----	3	Online	* Military Sciences	0115001
----	3	Online	National Education	0116101
0116099	3	Physical	Communications Skills Arabic Language	0116103
0116098	3	Physical	Communications Skills English Language 1	0116107
0116107	3	Physical	Communications Skills English Language 2	0116108
----	3	Online	Entrepreneurship and Creativity	0116102
----	0	Physical	Volunteer Community Service	0116109

** is compulsory for Jordanian students and effective for non Jordanians

B. University Elective Requirements (9 Credit Hours)

The student chooses 9 credit hours from the following subjects

Prerequisite	Credit Hours	Delivery Method	Course Name	Course No
----	3	Blended	Thinking Skills	0116105
---	3	Blended	Economic Culture	0116106
----	3	Blended	(European or Eastern)Language Skills (1)	0116111
0116111	3	Blended	(European or Eastern)Language Skills (2)	0116112
0116112	3	Blended	(European or Eastern)Language Skills (3)	0116113
---	3	Blended	Introduction to Project Management	0116114
---	3	Blended	Legal Culture	0116143
---	3	Blended	Data Analysis Skills	0216102
---	3	Blended	Digital Culture	0216104

NOTE:

Each student is expected to pass a test evaluating his proficiency