



Bachelor of Science in Chemistry Model Study Plan (2022-2023 Cohort onwards)

For Students Admitted to the University from the Fall Semester Total Degree Credit hours: 120

	Semester	Course Code		CH		Semester	Course Code		CH	Course type
	1	ESPU102	Introduction to Academic English For Science		Gen Ed Course (Cluster 1: Area 2: English Communication)	2		General Chemistry II for Science Students	3	Specialization
\equiv	1	PHYS105	General Physics I		Gen Ed Course (Cluster 3: Area 1: Natural Sciences)		CHEM115	General Chemistry Lab	1	Specialization
ā	(Fall)	CHEM111	General Chemistry I		Specialization			Calculus II		Support Course
ě		MATH105	Calculus I		Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)	(Spring)	PHYS110	General Physics II	3	Support Course
1	(1 a11)	CSBP112	Introduction To Programming	3	Support Course	(Spring)	BIOC100	Basic Biology I	3	Support Course
				15					13	
		CHEM241	Organic Chemistry I	3	Specialization		CHEM222	Analytical Chemistry	4	Specialization
2	2	CHEM242	Organic Chemistry II	3	Specialization	4	CHEM245	Organic Chemistry Lab I	1	Specialization
≒	3	CHEM251	Physical Chemistry I		Specialization	-		Organic Chemistry Lab II		Specialization
မ	/- III	CHEM355	Physical Chemistry Lab I	1	Specialization	/a · \	CHEM231	Inorganic Chemistry I	3	Specialization
>	(Fall)	ENG310	Writing for Research		Support Course	(Spring)	Elective	Student choice		Major Elective
	,	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)	(-1- 0)	GESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
				16					15	
33	_	CHEM321	Instrumental Analysis I		Specialization			Physical Chemistry II		Specialization
`₩	5	CHEM332	Chemistry of Elements		Specialization	6				Specialization
نق			Biochemistry I		Specialization	U		Fundamentals of Innovation and Entrepreneurship		Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
~	(Fall)	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)	10	HSS105	Emirates Studies		Gen Ed Course (Cluster 2: Area 3: Emirates Society)
	(1 411)					(Spring)	ISLM100/ISLM101		mm	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
						· · · · · · · · ·	Elective	Student choice	3	Major Elective
				14					ij	
4		CHEM419	Internship	6	Internship		CHEM418	Research Project	3	Specialization
≒	7	CHEM331	Inorganic Chemistry II		Specialization	8	CHEM337	Practical Inorganic Chemistry	1	Specialization
ě	,	Elective	Student choice		Major Elective	O	Elective	Student choice	3	Free Elective
>	/= III	Elective	Student choice	3	Major Elective	(C ·)	Elective	Student choice	3	Free Elective
	(Fall)			ΙТ		(Spring)	GEIT112	#REF!	mm	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
	. ,					(-1- 0)	Elective	#REF!	жи	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
				100					-	

Bachelor of Science in Chemistry Model Study Plan (2025-2026 Cohort onwards)

For Students Admitted to the University from the Fall Semester Total Degree Credit hours: 120

	Semester	Course Code	Course Title	СН		Semester	Course Code		CH	
		PHYS105			Specialization	_		General Chemistry II for Science Students		Specialization
7	1	CHEM111	General Chemistry I		Specialization	2 (Spring)		General Chemistry Lab		Specialization
Ö	(Fall)	MATH105	Calculus I	3	Specialization			Calculus II		Support Course
×		CSBP119	Algorithms and Problem Solving		Specialization			General Physics II		Support Course
		GEEM110	Contemporary Emirati Studies	3	Gen. Ed. Theme 1: UAE National Identity					Support Course
							GEAE101	Academic English for Humanities and STEM	3	Gen. Ed. Theme 2: Academic Language Proficiency
				15					16	
			Organic Chemistry I		Specialization			Analytical Chemistry		Specialization
2	3	CHEM245	Organic Chemistry Lab I		Specialization	4	CHEM242	Organic Chemistry II		Specialization
≒	9		Physical Chemistry I		Specialization			Organic Chemistry Lab II		Specialization
ĕ	/E-II\		Physical Chemistry Lab I		Specialization	/C		Inorganic Chemistry I		Specialization
>	(Fall)	ENG310	Writing for Research		Support Course	(Spring)		Student choice		Support Elective
		GEIT113	Introduction to Artificial Intelligence		Gen. Ed. Theme 3: Innovation	` ' ' '	GESU121	Sustainability	3	Gen. Ed. Theme 5: Sustainability
		GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen. Ed. Theme 4: Entrepreneurship					
				17					17	
33	_	CHEM321	Instrumental Analysis I		Specialization	6		Physical Chemistry II		Specialization
≒	5	CHEM332	Chemistry of Elements		Specialization	(Spring)		Physical Chemistry Lab II		Specialization
õ		BCHM361	Biochemistry I		Specialization			Student choice		Major Elective
~	(Fall)	Elective	Student choice		Support Elective			Student choice		Gen. Ed. Theme 6 or 7 or 8 or 9 or 10 or 11
	(i ali)	Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10 or 11		Elective	Student choice	3	Free Elective
				17					13	
4		CHEM419			Internship	8 (Spring)				Specialization
눖	7	CHEM331	Inorganic Chemistry II		Specialization			Practical Inorganic Chemistry		Specialization
ω.	,	Elective	Student choice		Major Elective			Student choice		Free Elective
>	/E-II\	Elective	Student choice	3	Free Elective		Elective	Student choice	3	Major Elective
	(Fall)									
	` '							·		
				15					10	