کلیۃ العلوم، College of Scio جامعة الإمارات العربية المتحدة United Arab Emirates University

Bachelor of Sicience in Biochemistry 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	Course Title		ourse type	Semester	Course Code		CH	Course type
Year 1	1	CHEM111	General Chemistry I	3 Specialization		2				Specialization
	1	MATH105	Calculus I	3 Gen Ed Course (Cluster 1: Area 5		2	CHEM115			Specialization
		PHYS105	General Physics I	3 Gen Ed Course (Cluster 3: Area 1	Natural Sciences)		CS8P112			Support Course
	(Fall)	ENG310	Writing for Research	3 Support Course		(Spring)	BIOC100			Support Course
	(i aii)	ESPU102	Introduction to Academic English For Science	3 Gen Ed Course (Cluster 1: Area 2	English Communication)	(Shing)	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)
				15					13	
		BIOC205	Basic Biology II	3 Specialization		4	CHEM222	Analytical Chemistry	4	Specialization
	2	CHEM241	Organic Chemistry I	3 Specialization			CHEM242	Organic Chemistry II	3	Specialization
2	5	CHEM245	Organic Chemistry Lab I	1 Specialization			BCHM361			Specialization
τu σ	(= II)	CHEM251	Physical Chemistry I	3 Specialization			BIOC214	General Biology Lab	1	Specialization
÷	(Fall)	GEIT112	Fourth Industrial Revolution	3 Gen Ed Course (Cluster 1: Area 3	Fourth Industrial Revolution)		GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
	/	Elective	Student choice	3 Gen Ed Course (Cluster 2: Area 2	: Social and Behavioral Sciences)					
				16					15	
		BCHM362	Biochemistry II	3 Specialization		6	Elective	Student choice	3	Major Elective
ŝ	5	GESU121	Sustainability	3 Gen Ed Course (Cluster 3: Area 2			Elective			Major Elective
h	5		Student choice	3 Gen Ed Course (Cluster 1: Area 4	Critical Thinking)		BIOC270			Specialization
ě.	(E. II)	BIOE230	Microbiology	3 Specialization			HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
~	(Fall)	ISLM100/ISLM101	Islamic Culture/Biography of the Prophet "Sira"	3 Gen Ed Course (Cluster 2: Area 4	: Islamic Culture)		STAT235			Support Course
	• •						BIOM489	Molecular Biology Techniques	1	Specialization
				15					16	
	-	BCHM472	Protein Structure and Function	3 Specialization		8	BCHM418			Specialization
2		BCHM462	Clinical Biochemistry	3 Specialization			Elective			Major Elective
ro,		CHEM419	Internship	6 Internship			Elective			FreeElective
Ύe	(Fall)					(Spring)				Major Elective
	(i all)					(Shung)	Elective	Student choice	3	Major Elective
				12					15	

Bachelor of Sicience in Biochemistry Model Study Plan (2025-2026 Cohort onwards)

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

S	emester	Course Code		CH		Semester	Course Code	Course Title	CH	Course type
		CHEM111	General Chemistry I	3	Specialization		CHEM113	General Chemistry II for Science Students	3	Specialization
	1	MATH105	Calculus I	З	Specialization	2	CHEM115	General Chemistry Lab	1	Specialization
H	-	PHYS105	General Physics I	3	Specialization	(Spring)	CSBP119	Algorithms and Problem Solving	3	Support Course
ē ,.		ENG310	Writing for Research		Support Course		BIOC100	Basic Biology I		Support Course
e (Fall)	GEEM110	Contemporary Emirati Studies	3	Gen. Ed. Theme 1: UAE National Identity		GEAE101	Academic English for Humanities and STEM	3	Gen. Ed. Theme 2: Academic Language Proficiency
~ `	. ,					(1) 0/	STAT235	Statistics for Biology	3	Support Course
				15					16	
		BI0C205	Basic Biology II	3	Support course	4 (Spring)	CHEM222	Analytical Chemistry	4	Specialization
	2	BI0C214	General Biology Lab	1	Specialization		CHEM242	Organic Chemistry II	3	Specialization
2	5	CHEM241	Organic Chemistry I	З	Specialization		BCHM361	Biochemistry I	4	Specialization
α,		CHEM245	Organic Chemistry Lab I	1	Specialization		BIOC270	General Genetics	3	Specialization
₩ (I	(Fall)	CHEM251	Physical Chemistry I		Specialization		BIOC275	Genetics Laboratory	1	Specialization
`		GEIT113	Introduction to Artificial Intelligence	3	Gen. Ed. Theme 3: Innovation		CHEM355	Physical Chemistry Lab I	1	Specialization
		GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen. Ed. Theme 4: Entrepreneurship					
				17					16	
		BCHM362	Biochemistry II	3	Specialization	6 (Spring)	Elective	Student choice	3	Major Elective
m	5	Elective	Student choice	3	Support Elective		Elective	Student choice	3	Support Elective
5	5	Elective	Student choice	З	Major Elective		CHEM321	Instrumental Analysis I	4	Specialization
ë,		BIOE230	Microbiology		Specialization		Elective	Student choice	3	FreeElective
≻ (I	-all)	GESU121	Sustainability		Gen. Ed. Theme 5: Sustainability		BIOM489	Molecular Biology Techniques	1	Support Course
•	· /	Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10 or 11	· · · · · ·	Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10 or 11
				18					17	
		BCHM472	Protein Structure and Function	3	Specialization	8 (Spring)	BCHM418	Research Project	3	Specialization
2	-	BCHM462	Clinical Biochemistry		Specialization		Elective	Student choice		Major Elective
an an		CHEM419	Internship	6	Internship		Elective	Student choice	3	Free Elective
≍ ((Fall)									
()						(Shing)				
				12					đ	