



Bachelor of Science in Biochemistry Model Study Plan (2020-2021 Cohort onwards)

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

Semester	Course Code	Course Title	Cr	Specialization	Course type	Semester	Course Code	Course Title	Cr	Specialization	Course type
Year 1 (Fall)	CHEM111	General Chemistry I	3	Specialization		Year 1 (Spring)	CHEM115	General Chemistry II for Science Students	3	Specialization	
	MATH105	Calculus I	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)			CHEM115	General Chemistry Lab	1	Specialization	
	PHYS105	General Physics I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)			CSRP112	Introduction To Programming	3	Support Course	
	ENGL110	Writing for Research	3	Support Course			BIOC100	Basic Biology I	3	Support Course	
	ESPU102	Introduction to Academic English For Science	3	Gen Ed Course (Cluster 1: Area 2: English Communication)			Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)	
Year 2 (Fall)	BIOC205	Basic Biology II	3	Specialization		Year 2 (Spring)	CHEM222	Analytical Chemistry	4	Specialization	
	CHEM241	Organic Chemistry I	3	Specialization			CHEM242	Organic Chemistry II	3	Specialization	
	CHEM245	Organic Chemistry Lab I	1	Specialization			BCHM361	Biochemistry I	4	Specialization	
	CHEM251	Physical Chemistry I	3	Specialization			BIOC214	General Biology Lab	1	Specialization	
	GETI112	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)								
Year 3 (Fall)	BCHM362	Biochemistry II	3	Specialization		Year 3 (Spring)	Elective	Student choice	3	Major Elective	
	GESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)			Elective	Student choice	3	Major Elective	
	Elective	Student choice	3	Gen Ed Course (Cluster 3: Area 4: Critical Thinking)			BIOC210	General Genetics	3	Specialization	
	BIOE230	Microbiology	3	Specialization			ESS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)	
	ISLM100	Islamic Culture	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)			STAT235	Statistics for Biology	3	Support Course	
Year 4 (Fall)	BCHM472	Protein Structure and Function	3	Specialization		Year 4 (Spring)	BCHM418	Research Project	3	Specialization	
	BCHM462	Clinical Biochemistry	3	Specialization			Elective	Student choice	3	Major Elective	
	Elective	Student choice	3	Major Elective			Elective	Student choice	3	Major Elective	
	Elective	Student choice	3	Major Elective			Elective	Student choice	3	Major Elective	
	Elective	Student choice	3	Major Elective			Elective	Student choice	3	Major Elective	