

Bachelor of Science Degree (B.Sc.) in Biochemistry (2009 & 2010)

Student name :

Student I.D:

Minor :

Group	Course No	Course Title	Semester	Prerequisite	CH	Course No	Course Title	Semester	Prerequisite	CH
(1) General Education Requirements 27 Credit Hours						(2) College Requirements (9 Credit Hours)				
Cluster 1: Values to live (6 Credit Hours)										
Islam (3 C.H)	ISLM 1103	Islamic Thought	1 & 2	---	3	ITBP 103	Principles of Information Technology	1 & 2	INTU 1302 OR MATU 1332	3
Values to Live By Ethics (3 C.H)	PHIL 120	Principles of Professional Ethics	1 & 2	---	3	MATH 105	Calculus I	1 & 2	MATU 1332	3
	PHI 121	Fundamentals of Environmental Ethics	1 & 2	---	3	PHYS 105	General Physics I	1 & 2	----	3
	PHI 122	International Ethics	1 & 2	---	3	(3) Major Specialization Requirements: (45Credit Hours)				
	PHI 226	Human Rights Theory	1 & 2	---	3	CHEM 111	General Chemistry I	1 & 2	----	3
Cluster 2: Skills for life (9 Credit Hours)						CHEM 112	General Chemistry II	1 & 2	CHEM 111	2
English Com. Skills (6 C.H)	ESPU 102	English for Science	1 & 2	ENGU 1303 + ENGU 1034	3	CHEM 115	General Chemistry Laboratory	1 & 2	CHEM 112*	1
	ESPU 1432	Comm Skills for Science	1 & 2	ESPU 102	3	CHEM 211	Professional and Trans. Skills for Chemists	1 & 2	CHEM 112	1
Learning and thinking (3 C.H)	HSS 110	Scientific Research Skills	1 & 2	---	3	CHEM 221	Analytical Chemistry	1 & 2	CHEM 112 + 115	3
	HSR 280	Critical and Creative Thinking Skills	1 & 2	---	3	CHEM 231	Inorganic Chemistry I	1 & 2	CHEM 251	3
	ITBP 119	Algorithms & Problem Solving	1 & 2	---	3	CHEM 241	Organic Chemistry I	1 & 2	CHEM 111	3
Cluster 3: Human Community (12 Credit Hours)						CHEM 242	Organic Chemistry II	1 & 2	CHEM 241	3
Society (3 C.H)	HSS 105	Emirates Society	1 & 2	---	3	CHEM 245	Organic Chemistry Lab I	1 & 2	CHEM 115 + 241*	1
Social and Behavioral Science (3 C.H)	AGRB 210	Introduction to Agribusiness	1 & 2	---	3	CHEM 251	Physical Chemistry I	1 & 2	CHEM 112 + MATH 105	3
	ECON 110	Principles of Economics	1 & 2	---	3	CHEM 355	Physical Chemistry Lab I (i)	1 & 2	CHEM 115 +251	1
	HSR 140	Introduction to society and behavior	1 & 2	---	3	CHEM 361	Biochemistry	1 & 2	CHEM 241 + 115	3
	HSR 150	Introduction to Gov., Policy, and Urban Studies	1 & 2	---	3	BCHM 362	Biochemistry II	1 & 2	CHEM 361	3
	PSY 200	Introduction to Psychology	1 & 2	---	3	BCHM 345	Experimental Biochemistry (i)	1 & 2	BCHM 362	1
	SOC 260	Folklore	1 & 2	---	3	BCHM 471	Protein Structure and Function (i)	1 & 2	BCHM 362	2
	SWK 200	Introduction to Social Welfare	1 & 2	---	3	BCHM 481	Special Topics Biochemistry I (Genomics, Proteomics and Signal Transduction)(i)	1 & 2	BCHM 362	2
Humanities/ Fine Arts (3 C.H)	ARCH 340	History and Theory of Architecture	1 & 2	---	3	BCHM 482	Special Topics Biochemistry II (Environmental and Biochemical Toxicology)	1 & 2	BCHM 362	2
	LIT 150	Introduction to Literature	1 & 2	---	3	BIOG 230	General Microbiology	1 & 2	BIOC 100	3
	HIS 133	Introduction to Art History	1 & 2	---	3	BIOL 270	General Genetics	1 & 2	BIOC 100	2
	HSR 120	Introduction to Heritage and Culture	1 & 2	---	3	BIOM 399	Molecular Biology	1 & 2	BIOL 270	2
	HSR 130	Introduction to Language and Communication	1 & 2	---	3	BIOM 488	Molecular Biology Techniques	2	BIOL 270	1
	LNG 100	Introduction to Linguistics	1 & 2	---	3	(4) Supporting Requirements (30 Credit Hours)				
	LNG 110	Language, Society & Culture	1 & 2	---	3	A) Compulsory Requirements (12 Credit Hours):				
	MSC 200	Introduction to Mass Media	1 & 2	---	3	MATH 110	Calculus II	1 & 2	MATH 105	3
	MSC 240	World and Arab Media	1 & 2	---	3	PHYS 110	General Physics II	1 & 2	PHYS 105	3
	PHI 101	Introduction to Philosophy	1 & 2	---	3	BIOC 100	Basic Biology	1 & 2	---	3
	TRS 200	Introduction to Translation	1 & 2	---	3	ENG 310	Rhetoric and Composition 3B	1 & 2	---	3
	PHI 270	Philosophy of Education	1 & 2	---	3	B) Elective Courses (18 Credit Hours): " MINOR "				
	PHI 271	History and Philosophy of Science	1 & 2	---	3	Students may select upon approval of the Department 18 Credit Hours forming an approved <u>minor</u> See the back of this paper				
The Global Experience (3 C.H)	HIS 120	Arab Islamic Civilization	1 & 2	---	3	(5) Internship (6 Credit Hours)				
	HIS 125	Contemporary Civilizations	1 & 2	---	3	CHEM 419	Internship	1 & 2	90 CH + GPA ≥2.00	6
	AGRB 362	Global Agri-food Trade	1 & 2	---	3	(6) Free Elective (3 Credit Hours)				
	BIOE 240	Principles of Environmental Science	1 & 2	---	3					3
	PSG 250	Principles of International Relations	1 & 2	---	3					
	GEO 200	World Regional Geography	1 & 2	---	3					
	ARCH 346	Contemporary World Architecture	1 & 2	---	3					
	HIS 121	World History: Origins to 1500	1 & 2	---	3					

Note: (i) Concurrent with the Internship