

BS Biochemistry

Course Title	Course Code	Course Type	Credit Hour
Semester 1			
GEN(NS)		General	3
Functional English	GENG-101	General	3
Civics and Community Engagement	GCCE-101	General	2
Islamic Studies / Ethics (for Non-Muslims)	GISL-101 / GETH-101	General	2
Cell Biology	BCBT-101	Major	3
Introduction to Biochemistry	BC-101	Major	3
Tarjuma-e-Quran	HQ-001	Compulsory	0
Physical Chemistry		Major	3
Total Credit Hours			19
Semester 2			
GEN(AH)		General	2
Quantitative Reasoning (I)	GQR-101	General	3
Entrepreneurship	GENT-101	General	2
Ideology and Constitution of Pakistan	GICP-101	General	2
Principles of Genetics	BCBT-102	Major	3
Elements of Biotechnology	BT-101	Major	3
Tarjuma-e-Quran	HQ-002	Compulsory	1
Total Credit Hours			16
Semester 3			
Applications of Information and Communication Technologies	GICT-201	General	3
Expository Writing	GENG-201	General	3
Nutritional Biochemistry	BC-203	Major	3
Microbiology	BCBT-203	Major	3
Carbohydrates and Lipids	BC-201	Major	3
Tarjuma-e-Quran	HQ-003	Compulsory	0
Organic Chemistry		Interdisciplinary	3
Total Credit Hours			18
Semester 4			
GEN(SS)		General	2
Quantitative Reasoning (II)	GQR-202	General	3
Molecular Biology	BCBT-201	Major	3
Enzymology	BC-204	Major	3
Proteins and Nucleic Acids	BC-202	Major	3
Tarjuma-e-Quran	HQ-004	Compulsory	1
Total Credit Hours			15
Semester 5			
Human Physiology	BC-303	Major	3
Clinical Biochemistry	BC-301	Major	3
Biostatistics	BCBT-301	Major	3
Methods in Molecular Biology	BC-307	Major	3
Analytical Chemistry		Interdisciplinary	3
Tarjuma-e-Quran	HQ-005	Compulsory	0
Metabolism I	BC-305	Major	2
Total Credit Hours			17
Semester 6			
Industrial Biochemistry	BC-306	Major	3
Inorganic Chemistry		Interdisciplinary	3
Bioenergetics	BC-304	Major	3
Metabolism II	BC-302	Major	2
Immunology	BCBT-302	Major	3
Tarjuma-e-Quran	HQ-006	Compulsory	1
Plant Biochemistry	BC-308	Major	3
Total Credit Hours			18
Semester 7			
Capstone	BC-480	Major	3
Biomembranes and Cell Signaling	BC-405	Major	3
Scientific Inquiry & Research Methods	BCBT-401	Major	3
Biochemical Techniques	BC-403	Major	3
Environmental Biochemistry	BC-401	Major	3
Tarjuma-e-Quran	HQ-007	Compulsory	0
Elective Course-I		Major	3
Total Credit Hours			18
Semester 8			
Capstone Project	BSBC-	Major	0
Biosafety, Biosecurity & Bioethics	BC-402	Major	2
Elective Course-IV		Major	3
Elective Course-III		Major	3
Elective Course-II		Major	3
Tarjuma-e-Quran	HQ-008	Compulsory	1
Internship	BC-400	Major	3
Total Credit Hours			15

Signature