

SCHEME OF STUDIES FOR BS BIOCHEMISTRY 2024

Existing Courses			Proposed Courses		
FIRST SEMESTER					
ENG-301	COMPOSITION AND COMMUNICATION SKILLS	3(3-0)	ENG-313	FUNCTIONAL ENGLISH	3(3-0)
SSH-302	PAKISTAN STUDIES	2(2-0)	SSH-303	IDEOLOGY AND CONSTITUTION OF PAKISTAN	2(2-0)
MATH-301	ELEMENTARY MATHEMATICS	3(3-0)	ZOOL-301	ANIMAL DIVERSITY-I	4(3-1)
ZOOL-301	ANIMAL DIVERSITY-I	4(3-1)	CHEM-310	FUNDAMENTALS OF INORGANIC CHEMISTRY	4(3-1)
CHEM-310	FUNDAMENTALS OF INORGANIC CHEMISTRY	4(3-1)	BIOCHEM-300	ESSENTIALS OF BIOCHEMISTRY	3(3-0)
BIOCHEM-300	ESSENTIALS OF BIOCHEMISTRY	3(3-0)	SOC-311	INTRODUCTION TO SOCIOLOGY	2 (2-0)
			TGM-301	TUTORIAL GROUP MEETING FOR SOFT SKILLS	Non-Credit
SECOND SEMESTER					
ENG-303	ENGLISH-I (FUNCTIONAL ENGLISH)	2(2-0)	ENG -314	EXPOSITORY WRITING	3(3-0)
ENG-304	ENGLISH-II (COMMUNICATION SKILLS)	2(2-0)	FA-310	INTRODUCTION TO ARTS AND HUMANITIES	2(2-0)
IS-401/SSH-402	ISLAMIC STUDIES/ETHICS	3(3-0)	IS-401/SSH-402	ISLAMIC STUDIES/ ETHICS	2(2-0)
CHEM-311	FUNDAMENTALS OF ORGANIC CHEMISTRY	4(3-1)	CHEM-311	ORGANIC CHEMISTRY-II	3(3-0)
BOT-403	CELL BIOLOGY, GENETICS AND EVOLUTION	4(3-1)	BOT-403	CELL BIOLOGY, GENETICS AND EVOLUTION	4(3-1)
BIOCHEM-307	BIOCHEMICAL ANALYSIS	3(1-2)	BIOCHEM-307	BIOCHEMICAL ANALYSIS	3(1-2)
			EDU-306	CIVICS AND COMMUNITY ENGAGEMENT	2(2-0)
			IS-402/SSH-403	ترجمة القرآن /INTERFAITH HARMONY	Non-Credit
			TGM-302	TUTORIAL GROUP MEETING FOR SOFT SKILLS	Non-Credit
THIRD SEMESTER					
IS-402	قرآن ترجمہ	1(1-0)	MATH-408	QUANTITATIVE REASONING-I	3(3-0)
BOT-404	PLANT PHYSIOLOGY AND ECOLOGY	4(3-1)	BOT-404	PLANT PHYSIOLOGY AND ECOLOGY	4(3-1)
CHEM-408	FUNDAMENTALS OF PHYSICAL CHEMISTRY	4(3-1)	CHEM-408	FUNDAMENTALS OF PHYSICAL CHEMISTRY	4(3-1)
ZOOL-302	ANIMAL DIVERSITY-II	4(3-1)	ZOOL-302	ANIMAL DIVERSITY-II	4(3-1)
BIOCHEM-403	BIOSAFETY AND ETHICS	3(3-0)	BIOCHEM-403	BIOSAFETY AND ETHICS	3(3-0)
STAT-301	INTRODUCTORY STATISTICS	4(4-0)	CS-305	APPLICATIONS OF INFORMATION AND COMMUNICATION TECHNOLOGIES	3(2-1)
			TGM-401	TUTORIAL GROUP MEETING FOR SOFT SKILLS	Non-Credit

FORTH SEMESTER					
IS-403	روحانیت	1(1-0)	IS-403/SSH-404	روحانیت/ MORAL PHILOSOPHY	Non-Credit
CS-305	INTRODUCTION OF INFORMATION AND COMMUNICATION TECHNOLOGIES	3(2-1)	PY-307	FUNDAMENTALS OF NATURAL SCIENCES	3(2-1)
CHEM-409	FUNDAMENTALS OF ANALYTICAL CHEMISTRY	3(2-1)	CHEM-409	FUNDAMENTALS OF ANALYTICAL CHEMISTRY	3(2-1)
BInfo-403	INTRODUCTION TO BIOINFORMATICS	3(2-1)	BMS-402	ENTREPRENEURSHIP	2(2-0)
CHEM-511	ORGANIC CHEMISTRY-II	4(3-1)	BIOCHEM-404	ENZYMOLGY	3(3-0)
BIOCHEM-404	ENZYMOLGY	3(3-0)	BIOCHEM-405	NUTRITIONAL BIOCHEMISTRY	3(3-0)
BIOCHEM-405	NUTRITIONAL BIOCHEMISTRY	3(3-0)	STAT-408	QUANTITATIVE REASONING -II	3(3-0)
			TGM-402	TUTORIAL GROUP MEETING FOR SOFT SKILLS	Non-Credit
FIFTH SEMESTER					
BIOCHEM-505	BIOCHEMISTRY OF CARBOHYDRATES	3(3-0)	BIOCHEM-505	BIOCHEMISTRY OF CARBOHYDRATES	3(3-0)
BIOCHEM-506	BIOCHEMISTRY OF PROTEINS	3(3-0)	BIOCHEM-506	BIOCHEMISTRY OF PROTEINS	3(3-0)
BIOCHEM-507	BIOCHEMISTRY OF LIPIDS	3(3-0)	BIOCHEM-507	BIOCHEMISTRY OF LIPIDS	3(3-0)
BIOCHEM-508	BIOCHEMISTRY OF NUCLEIC ACIDS	2(2-0)	BIOCHEM-508	BIOCHEMISTRY OF NUCLEIC ACIDS	3(3-0)
BIOCHEM-509	ENZYME BIOTECHNOLOGY	4(0-4)	BIOCHEM-509	ENZYME BIOTECHNOLOGY	3(0-3)
BIOCHEM-510	INDUSTRIAL MANAGEMENT AND QUALITY CONTROL	3(3-0)	BIOCHEM-510	INDUSTRIAL MANAGEMENT AND QUALITY CONTROL IN BIOCHEMISTRY	3(3-0)
			TGM-501	TUTORIAL GROUP MEETING FOR SOFT SKILLS	Non-Credit
SIXTH SEMESTER					
BIOCHEM-511	PLANT BIOCHEMISTRY	3(3-0)	BIOCHEM-511	PLANT BIOCHEMISTRY	3(3-0)
BIOCHEM-512	INTRODUCTION TO FERMENTATION BIOTECHNOLOGY	3(3-0)	BIOCHEM-512	INTRODUCTION TO FERMENTATION BIOTECHNOLOGY	3(3-0)
BIOCHEM-513	MOLECULAR BIOCHEMISTRY	3(3-0)	BIOCHEM-513	MOLECULAR BIOCHEMISTRY	3(3-0)
BIOCHEM-514	BIOCHEMICAL TECHNIQUES	3(1-2)	BIOCHEM-514	BIOCHEMICAL TECHNIQUES	3(1-2)
BIOCHEM-515	CLINICAL BIOCHEMISTRY	3(1-2)	BIOCHEM-515	CLINICAL BIOCHEMISTRY	4(2-2)
BIOCHEM-516	ENZYME KINETICS	3(3-0)	BIOCHEM-516	ENZYME KINETICS	3(3-0)
			BIOCHEM-517	BIOCHEMISTRY OF HUMAN DISEASES	3(3-0)
			TGM-502	TUTORIAL GROUP MEETING FOR SOFT SKILLS	Non-Credit
SEVENTH SEMESTER					
BIOCHEM-601	WATER AND MINERAL METABOLISM	3(3-0)	BIOCHEM-601	WATER AND MINERAL METABOLISM	3(3-0)
BIOCHEM-602	BIOCHEMISTRY OF VITAMINS	3(3-0)	BIOCHEM-602	BIOCHEMISTRY OF VITAMINS	3(3-0)
BIOCHEM-603	BIOMEMBRANES AND CELL SIGNALING	3(3-0)	BIOCHEM-603	BIOMEMBRANES AND CELL SIGNALING	3(3-0)
BIOCHEM-604	BIOCHEMICAL AND MOLECULAR DIAGNOSIS	3(3-0)	BIOCHEM-604	BIOCHEMICAL AND MOLECULAR DIAGNOSIS	3(3-0)
BIOCHEM-605	MOLECULAR BIOTECHNOLOGY	3(2-1)	BIOCHEM-605	MOLECULAR BIOTECHNOLOGY	3(2-1)
BOT-504	BACTERIOLOGY AND VIROLOGY	2(2-0)	BIOCHEM-606	ENVIRONMENTAL BIOCHEMISTRY	3(3-0)
			BInfo-403	INTRODUCTION TO BIOINFORMATICS	3(2-1)
			BIOCHEM-620	SEMINAR	1 (1-0)

			TGM-601	TUTORIAL GROUP MEETING FOR SOFT SKILLS	Non-Credit
EIGHTH SEMESTER					
BIOCHEM-621	TECHNICAL REPORT/INTERNSHIP	6(0-6)	BIOCHEM-621	INTERNSHIP	3(0-3)
			BIOCHEM-622	CAPSTONE PROJECT	3(0-3)