

Degree Plan for B.Sc. in Biotechnology (Revised Feb 2019)

Minimum No. of Credits for the Biotechnology Degree Plan = 137		
Course Title	No. of Credits	Pre-requisites
University Requirements = 24 Credits		
ARAB100 Arabic Language I	3	
ARAB101 Arabic Language II	3	ARAB100
COMP101 Computer Skills	3	COMP-A,COMP-B, Digital Literacy
ENGL150 English Language I	3	
ENGL152 English Language II	3	ENGL150
ENGL155 Communication Skills	3	ENGL152
HIST150 Islamic Civilization	3	
MNGT100 Entrepreneurship: Creativity and Innovation	3	
University Electives = 3 Credits		
Student shall choose from available courses offered by all Colleges of the University		
College Requirements = 16 Credits		
BIOL101 General Biology I	4	
CHEM101 General Chemistry I	4	
MATH116 Pre-Calculus	4	
PHYS101 General Physics I	4	MATH116
College Electives = 8 Credits		
Student shall choose from the following courses:		
COMP151 Introduction to Algorithms	4	COMP 101
ERSC101 Introduction to Geology I	4	CHEM101
MATH 211 Calculus I	4	MATH 116
STAT101 Introduction to Statistics	4	
Department Requirements = 66 credits		
BIOL102 General Biology II	4	BIOL101
BIOL211 Plant Physiology	3	BIOL102
BIOL220 Animal Physiology	3	BIOL102
BIOL242 Introductory Genetics	3	BIOL101
BIOL344 Introductory Microbiology	3	BIOL102
BIOL330 Bacteriology	3	BIOL344
CHEM334 Biochemistry	3	CHEM 265
BIOL 364 Mycology	3	BIOL344
BIOL345 Introduction to Biotechnology	3	BIOL242, BIOL344
BIOL350 Cell Biology	3	BIOL101
BIOL363 Biological Data Handling	3	
BIOL410 Microbial Biotechnology	3	BIOL345
BIOL412 In Vitro Biotechnology	3	BIOL345
BIOL425 Molecular Biology	3	BIOL242
BIOL442 Embryology	3	BIOL102

BIOL450 Immunology	3	BIOL344
BIOL451 Toxicology	3	CHEM334
CHEM265 Organic Chemistry I	4	CHEM101
CHEM241 Analytical Chemistry 1	4	CHEM101
BIOL499 Graduation Project	6	
Department Electives = 20 credits		
Student shall choose from available courses offered by the Department		
BIOL103 Human Biology	3	BIOL101, Non-majors only
BIOL321 Zoology	3	BIOL102
BIOL241 Animal Histology	3	BIOL102
BIOL251 Man and the Environment	3	
BIOL300 Human Physiology	3	BIOL101
BIOL341 Practical Techniques in Biology	3	BIOL102
BIOL342 Parasitology	3	BIOL221
BIOL352 Ecology	3	BIOL102
BIOL357 Virology	3	BIOL344
BIOL428 Medical Microbiology	3	BIOL344, BIOL330
BIOL431 Enzyme Biotechnology	3	CHEM334
BIOL437 Biology Seminar	2	BIOL102
BIOL441 Animal Behavior	3	BIOL102
BIOL456 Medical Biotechnology	3	BIOL330
BIOL150 Botany	4	BIOL101
CHEM470 Clinical Chemistry	3	CHEM334
BIOL471 Phylogenetic Systematics I	3	BIOL102
BIOL472 Phylogenetic Systematics II	3	BIOL471
BIOL473 Molecular Systematics	3	BIOL102
BIOL 475 Environmental Biotechnology	3	BIOL 345
BIOL 444 Plant Pathology	3	BIOL 364