



**Proposed Study Plan for
the Bachelor Degree in
General Biology
(B.Sc. General Biology)
132 credit hours**

Study Plan for the Bachelor Degree in **GENERAL BIOLOGY** **132 credit hours**

Requirements for the B.Sc. Degree in General Biology

All students working for their Bachelor's Degree in General Biology must successfully complete 132 credit hours distributed as follows:

Requirements		Contact Hours
University Requirements	Compulsory Courses	15
Faculty Requirements	Compulsory Courses	29
Departments Requirements	Compulsory Courses	80
	Elective Courses	08
Total Credit Hours		132

Head of Department

Program Coordinator

Dr. Nawaf Alshammari

Dr. Riadh Badraoui

Study Plan for B.Sc. General Biology

FIRST YEAR

FIRST SEMESTER						
CODE	COURSE TITLE	*Cr.	Lecture		Lab.	
			Cr.	#Con.	Cr.	Con.
MATH 110	Pre-Calculus	2	2	2	0	0
ARAB 100	Arabic Language Skills	2	2	2	0	0
IC111	Islamic Culture	2	2	2	0	0
ENGL 100	English Language	2	2	2	0	0
BIOL 101	General Biology	4	3	3	1	2
CHEM 100	General Chemistry I	4	3	3	1	2
TOTAL		16	14	14	2	4

*Cr. = Credit hour(s), #Con. = Contact hour(s)

SECOND SEMESTER						
CODE	COURSE TITLE	Cr.	Lecture		Lab.	
			Cr.	Con.	Cr.	Con.
CRCL 115	University Life Skills	3	3	3	0	0
ENGL 107	English for Science	3	3	3	0	0
PHYS 112	General Physics I	4	3	3	1	3
MATH 111	Calculus 1	4	4	4	0	0
ENG 1004	Pre-intermediate English	4	4	4	0	0
TOTAL		18	17	17	1	3

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Study Plan for B.Sc. General Biology SECOND YEAR

FIRST SEMESTER						
CODE	COURSE TITLE	*Cr.	Lecture		Lab.	
			Cr.	#Con.	Cr.	Con.
ETEC 115	Computer and information	2	2	2	0	0
BIO 216	Ecology and Conservation	3	2	2	1	3
BIO 213	Biostatistics	2	2	2	0	0
BIO 214	Cell Biology	2	2	2	0	0
EDUC 125	Entrepreneurship	2	2	2	0	0
ENG 1005	Intermediate English	4	4	4	0	0
TOTAL		15	14	14	1	3

SECOND SEMESTER						
CODE	COURSE TITLE	*Cr.	Lecture		Lab.	
			Cr.	#Con.	Cr.	Con.
EDUC 115	Work Values and Ethics	2	2	2	0	0
BIO 215	Plant Morphology and Anatomy	3	2	2	1	3
BIO 223	Plant Ecology	3	2	2	1	3
BIO 224	Invertebrate Zoology	3	2	2	1	3
BIO 225	Biological Techniques	2	1	1	1	3
BIO 322	Molecular Biology	3	2	2	1	3
BIO 226	Environmental Pollution	2	2	2	0	0
TOTAL		18	13	13	5	15

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Study Plan for B.Sc. General Biology THIRD YEAR

FIRST SEMESTER						
CODE	COURSE TITLE	*Cr.	Lecture		Lab.	
			Cr.	#Con.	Cr.	Con.
BIO 311	Vertebrate Zoology	3	2	2	1	3
BIO 312	Immunology	3	2	2	1	3
BIO 313	Bacteriology and Virology	3	2	2	1	3
BIO 323	Animal Histology	2	1	1	1	3
BIO 316	Plant Physiology	3	2	2	1	3
BIO 321	Plant Taxonomy	3	2	2	1	3
TOTAL		17	11	11	6	18

SECOND SEMESTER						
CODE	COURSE TITLE	*Cr.	Lecture		Lab.	
			Cr.	#Con.	Cr.	Con.
BIO 315	Entomology	3	2	2	1	3
BIO 324	Basic Biochemistry	3	2	2	1	3
BIO 325	Animal Behavioral Ecology	3	2	2	1	3
BIO 326	Mycology and Phycology	3	2	2	1	3
BIO 314	Embryology and Development	2	1	1	1	3
BIO 413	Parasitology	3	2	2	1	3
TOTAL		17	11	11	6	18

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Study Plan for B.Sc. General Biology FOURTH YEAR

FIRST SEMESTER						
CODE	COURSE TITLE	*Cr.	Lecture		Lab.	
			Cr.	#Con.	Cr.	Con.
BIOxxx	Elective (1)	2	2	2	0	0
BIOxxx	Elective (2)	2	2	2	0	0
BIO 414	Principles of Biotechnology	3	2	2	1	3
BIO 416	Research Design and Methodology	1	1	1	0	0
BIO 415	Bioinformatics and System Biology	3	2	2	1	3
BIO 417	General Genetics	3	2	2	1	3
BIO 423	Soil Science and Bioresources	2	2	2	0	0
TOTAL		16	13	13	3	9

SECOND SEMESTER						
CODE	COURSE TITLE	*Cr.	Lecture		Lab.	
			Cr.	#Con.	Cr.	Con.
BIOxxx	Elective (3)	2	2	2	0	0
BIOxxx	Elective (4)	2	2	2	0	0
BIO 424	Microbial Ecology and Physiology	2	2	2	0	0
BIO 425	Animal Physiology	3	2	2	1	3
BIO 426	Bioenergy	2	2	2	0	0
BIO 427	Graduation Project	4	0	0	4	8
TOTAL		15	10	10	5	11

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Study Plan for B.Sc. General Biology

UNIVERSITY COMPULSORY COURSES (15 hours)							
CODE	COURSE TITLE	Cr.	Lecture		Lab.		PRE-REQUISITE
			Cr.	Con.	Cr.	Con.	
ARAB 100	Arabic Language Skills	2	2	2	0	0	-
IC113	Islamic Culture	2	2	2	0	0	-
ENGL100	English Language	2	2	2	0	0	-
EDUC 115	Work Values and Ethics	2	2	2	0	0	-
ETEC115	Computer and information	2	2	2	0	0	-
CRCL115	University Life Skills	3	3	3	0	0	-
EDUC 125	Entrepreneurship	2	2	2	0	0	-
TOTAL		15	15	15	0	0	

FACULTY COMPULSORY COURSES (29 hours)							
CODE	COURSE TITLE	Cr.	Lecture		Lab.		PRE-REQUISITE
			Cr.	Con.	Cr.	Con.	
MATH 110	Pre-Calculus	2	2	2	0	0	-
CHEM 100	General Chemistry I	4	3	3	1	2	-
BIOL 101	General Biology	4	3	3	1	2	-
MATH 111	Calculus I	4	4	4	0	0	MATH 110
PHYS 112	General Physics I	4	3	3	1	3	*CO-MATH 111
ENGL107	English for Science	3	3	3	0	0	-
ENG1004	Pre- intermediate English	4	4	4	0	0	-
ENG1005	Intermediate English	4	4	4	0	0	-
TOTAL		29	26	26	3	7	

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Study Plan for the Bachelor Degree in **GENERAL BIOLOGY**

COMPULSORY COURSES FOR GENERAL BIOLOGY PROGRAM (80 hours)					
CODE	COURSE TITLE	Cr.	Lect.	Lab.	PRE-REQUISITE
BIO213	Biostatistics	2	2	0	MATH 110
BIO 214	Cell Biology	2	2	0	BIOL 101
BIO 215	Plant Morphology and Anatomy	3	2	3	BIOL 101
BIO 216	Ecology and Conservation	3	2	3	BIOL 101
BIO 223	Plant Ecology	3	2	3	BIOL 101
BIO 224	Invertebrate Zoology	3	2	3	BIOL 101
BIO 225	Biological Techniques	2	1	3	BIOL 101
BIO 226	Environmental Pollution	2	2	0	BIO 216
BIO311	Vertebrate Zoology	3	2	3	BIOL 101
BIO 312	Immunology	3	2	3	BIO 214
BIO 313	Bacteriology and Virology	3	2	3	BIO 214
BIO 314	Embryology and Development	2	1	3	BIO 214
BIO 315	Entomology	3	2	3	BIO 224
BIO 316	Plant Physiology	3	2	3	BIO 215
BIO 321	Plant Taxonomy	3	2	3	BIO 215
BIO 322	Molecular Biology	3	2	3	BIO 214
BIO 323	Animal Histology	2	1	3	BIO 214
BIO 324	Basic Biochemistry	3	2	3	CHEM 100 or CHEM 101
BIO 325	Animal Behavioral Ecology	3	2	3	BIO 216
BIO 326	Mycology and Phycology	3	2	3	BIO 313
BIO 413	Parasitology	3	2	3	BIO 224
BIO 414	Principles of Biotechnology	3	2	3	BIO 322
BIO 415	Bioinformatics and System Biology	3	2	3	BIO 213
BIO 416	Research Design and Methodology	1	1	0	BIO 213
BIO 417	General Genetics	3	2	3	BIO 322
BIO 423	Soil Science and Bioresources	2	2	0	BIO 216
BIO 424	Microbial Ecology and Physiology	2	2	0	BIO 326
BIO 425	Animal Physiology	3	2	3	BIO 324
BIO 426	Bioenergy	2	2	0	BIO 326
BIO 427	Graduation Project	4	0	8	BIO 416
					100 Earned Credit Hours and Department Approval
TOTAL		80	54	74	

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ELECTIVE COURSES FOR GENERAL BIOLOGY PROGRAM (8 hours)					
CODE	COURSE TITLE	Cr.	Lect.	Lab.	PRE-REQUISITE
BIO E01	Plant Pathology	2	2		BIO 316
BIO E02	Molecular Genetics	2	2		BIO 417
BIO E03	Toxicology	2	2		BIO 324
BIO E04	Proteomics and Genomics	2	2		BIO 322
BIO E05	Applied Microbiology	2	2		BIO 313
BIO E06	Food and Dairy Microbiology	2	2		BIO 313
BIO E07	Nanobiotechnology	2	2		BIO 322
BIO E08	Agricultural Biotechnology	2	2		BIO 414
BIO E09	Bioeconomy	2	2		BIO 216
BIO E01	Enzymology	2	2		BIO 324

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