

Study plan for students joining the Biomedical Science program in Fall

(Revised August 2023)

TOTAL CH: 135

Fall 1st Semester

Code	Course	T	P	Cr	Prereq.
Core Curriculum 1	English 202	3	0	3	
MEDI 102	Health Professions Education	2	0	3	
PUBH 151	Biostatistics for Health Sciences	3	0	3	
MEDI 101	Human Structures and Function I	2	3	3	
CHEM 101	General Chemistry I	3	0	3	
CHEM 103	Exp. General Chemistry I	0	3	1	
	Total			16	

Fall 3rd Semester

Code	Course	T	P	Cr	Prereq.
CMPS 101	Introduction to Computer	3	2	3	
BIOM 217	Human Genetics	2	3	3	MEDI 103
BIOL 241	Microbiology	2	3	3	
Core Curriculum	Elective 5			3	
Core Curriculum	Elective 6			3	
Core Curriculum	Elective 7			3	
	Total			18	

Fall 5th Semester

Code	Course	T	P	Cr	Prereq.
BIOM 324	Medical Virology	2	3	3	BIOM 243
BIOM 346	Clinical Chemistry	3	3	4	BIOM 201
BIOM 402	Special Topics	2	0	2	
BIOM 426	Clinical Immunology	2	3	3	BIOM 243
BIOM 463	Endocrinology	2	0	2	MEDI 103
Core Curriculum	Elective 11			3	
	Total			17	

Fall 7th Semester

Code	Course	T	P	Cr	Prereq.
BIOM 301	Laboratory management	3	0	3	
BIOM 422	Diagnostic Microbiology	1	3	2	BIOM 322
BIOM 444	Histopathology	1	3	2	BIOM 212
BIOM 452	Immunochem. & Blood Bank	2	3	3	BIOM 451
BIOM 497	Research Project	3	0	3	Dept. App.
BIOM 213	Major Elective (Human Embryology)	2	0	2	
	Total			15	

Spring 2nd Semester

Code	Course	T	P	Cr	Prereq.
Core Curriculum 2	English 203	3	0	3	
MEDI 103	Human Structures and Function II	2	3	3	MEDI 101
CHEM 209	Fundamentals of Organic Chemistry	2	3	3	CHEM 101&103
BIOM 212	Human Histology	2	3	3	
Core Curriculum	Elective 3			3	
Core Curriculum	Elective 4			3	
	Total			18	

Spring 4th Semester

Code	Course	T	P	Cr	Prereq.
BIOM 201	Medical Biochemistry	3	3	4	CHEM 101
BIOM 243	Introduction to Pathology	2	0	2	
BIOM 320	Medical Molecular Biology	2	3	3	BIOM 217
Core Curriculum	Elective 8			3	
Core Curriculum	Elective 9			3	
Core Curriculum	Elective 10			3	
	Total			18	

Spring 6th Semester

Code	Course	T	P	Cr	Prereq.
BIOM 322	Medical Microbiology	3	3	4	BIOL 241
BIOM 323	Medical Parasitology	1	3	2	BIOL 241
BIOM 418	Pharmacology & Toxicology	2	3	3	BIOM 346
BIOM 451	Hematology & Hemostasis	2	6	4	BIOM 243
BIOM 446	Urine Analysis & Body Fluids	1	3	2	MEDI 103
	Total			15	

Spring 8th Semester

Code	Course	T	P	Cr	Prereq.
BIOM 491	CP in Chemistry	0	9	3	BIOM 418
BIOM 492	CP in Hematology	0	9	3	BIOM 451
BIOM 493	CP in Immunology	0	9	3	BIOM 426
BIOM 494	CP in Microbiology	0	9	3	BIOM 422
BIOM 495	CP in Immunohematology	0	9	3	BIOM 452
BIOM 496	Professional Development	3	0	3	Dept. App.
	Total			18	

Study plan for students joining the Biomedical Science program in Spring

(Revised August 2023)

TOTAL CH: 135

Spring 1st Semester

Code	Course	T	P	Cr	Prereq.
Core Curriculum 1	English 202	3	0	3	
MEDI 102	Health Professions Education	2	0	3	
PUBH 151	Biostatistics for Health Sciences	3	0	3	
MEDI 101	Human Structures and Function I	2	3	3	
CHEM 101	General Chemistry I	3	0	3	
CHEM 103	Exp. General Chemistry I	0	3	1	
	Total			16	

Spring 3rd Semester

Code	Course	T	P	Cr	Prereq.
BIOM 201	Medical Biochemistry	3	3	4	CHEM 101
BIOM 217	Human Genetics	2	3	3	MEDI 103
BIOM 243	Introduction to Pathology	2	0	2	
Core Curriculum	Elective 5			3	
Core Curriculum	Elective 6			3	
Core Curriculum	Elective 7			3	
	Total			18	

Spring 5th Semester

Code	Course	T	P	Cr	Prereq.
BIOM 320	Medical Molecular Biology	2	3	3	BIOM 217
BIOM 322	Medical Microbiology	3	3	4	BIOL 241
BIOM 323	Medical Parasitology	1	3	2	BIOL 241
BIOM 451	Hematology & Hemostasis	2	6	4	BIOM 243
Core Curriculum	Elective 11			3	
	Total			16	

Spring 7th Semester

Code	Course	T	P	Cr	Prereq.
BIOM 301	Laboratory management	3	0	3	
BIOM 418	Pharmacology & Toxicology	2	3	3	BIOM 346
BIOM 444	Histopathology	1	3	2	BIOM 212
BIOM 446	Urine Analysis & Body Fluids	1	3	2	MEDI 103
BIOM 497	Research Project	3	0	3	Dept. App.
BIOM 410	Major Elective (Fund of Bioinformatics)	2	0	2	
	Total			15	

Fall 2nd Semester

Code	Course	T	P	Cr	Prereq.
Core Curriculum 2	English 203	3	0	3	
MEDI 103	Human Structures and Function II	2	3	3	MEDI 101
CHEM 209	Fundamentals of Organic Chemistry	2	3	3	CHEM101&103
BIOM 212	Human Histology	2	3	3	
Core Curriculum	Elective 3			3	
Core Curriculum	Elective 4			3	
	Total			18	

Fall 4th Semester

Code	Course	T	P	Cr	Prereq.
CMPS 101	Introduction to Computer	3	2	3	
BIOL 241	Microbiology	2	3	3	
BIOM402	Special Topics	2	0	2	
Core Curriculum	Elective 8			3	
Core Curriculum	Elective 9			3	
Core Curriculum	Elective 10			3	
	Total			17	

Fall 6th Semester

Code	Course	T	P	Cr	Prereq.
BIOM 324	Medical Virology	2	3	3	BIOM 243
BIOM 346	Clinical Chemistry	3	3	4	BIOM 201
BIOM 422	Diagnostic Microbiology	1	3	2	BIOM 322
BIOM 426	Clinical Immunology	2	3	3	BIOM 243
BIOM 452	Immunochem. & Blood Bank	2	3	3	BIOM 451
BIOM 463	Endocrinology	2	0	2	MEDI 103
	Total			17	

Fall 8th Semester

Code	Course	T	P	Cr	Prereq.
BIOM 491	CP in Chemistry	0	9	3	BIOM 418
BIOM 492	CP in Hematology	0	9	3	BIOM 451
BIOM 493	CP in Immunology	0	9	3	BIOM 426
BIOM 494	CP in Microbiology	0	9	3	BIOM 422
BIOM 495	CP in Immunohematology	0	9	3	BIOM 452
BIOM 496	Professional Development	3	0	3	Dept App.
	Total			18	

DEGREE REQUIREMENTS

A minimum of 135 credit hours are required to complete the major in Biomedical Sciences, including the following:

- A minimum of 33 credit hours in Core Curriculum requirements
- A minimum of 61 credit hours in Major Requirements
- A minimum of 24 credit hours in Major Supporting Requirements
- A minimum of 13 credit hours in College requirement
- A minimum of 4 credit hours in Major Electives

Core Curriculum Program (33 CH)

Identity & Communication Package (18 CH)

- ARAB 100 Arabic Language I
- ARAB 200 Arabic Language II
- ENGL 202 English Language I Post Foundation
- ENGL 203 English Language II Post Foundation
- DAWA 111 Islamic Culture
- HIST 121 History of Qatar

Social/Behavioral Sciences package (3 CH)

Courses in CCP defined Social/Behavioral Sciences package

Natural Science/Mathematics package (3 CH)

Courses in CCP defined Natural Science Package

Core Knowledge and Skills package (6 CH)

Courses in CCP defined General Skills package

Supplemental College/ Program package (3 CH)

First Year Seminar UNI 100

Major Requirements (61 CH)

Students must complete a minimum of 61 credit hours in Major required courses:

- BIOM 320 Medical Molecular Biology
- BIOM 301 Lab Management and QC
- BIOM 322 Medical Microbiology
- BIOM 323 Medical Parasitology
- BIOM 324 Medical Virology
- BIOM 346 Clinical Chemistry
- BIOM 402 Special Topics
- BIOM 418 Pharmacology and Toxicology
- BIOM 422 Diagnostic Microbiology
- BIOM 426 Clinical Immunology
- BIOM 444 Histopathology
- BIOM 446 Urine Analysis and Body Fluids
- BIOM 451 Hematology and Hemostasis
- BIOM 452 Immunohematology & Blood Bank
- BIOM 463 Endocrinology
- BIOM 491 Clinical Practice in Chemistry
- BIOM 492 Clinical Practice in Hematology
- BIOM 493 Clinical Practice in Immunology
- BIOM 494 Clinical Practice in Microbiology
- BIOM 495 Clinical Practice in Immunohematology
- BIOM 496 Professional Development
- BIOM 497 Research Project

Major Supporting Requirements (24 CH)

Students must complete a minimum of 24 credit hours in Major Supporting courses:

- MEDI 103 Human Structure & Function II
- BIOL 241 Microbiology
- BIOM 212 Human Histology
- BIOM 217 Human Genetics
- BIOM 243 Introduction to Pathology
- CHEM 209 Fundamentals of Organic Chemistry
- BIOM 201 Medical Biochemistry
- CMPS 101 Introduction to Computer Science

Major College Requirements (13 CH)

Students must complete a minimum of 13 credit hours in Major college requirements:

- MEDI 101 Human Structure & Function I
- MEDI 102 Health Professions Education
- CHEM 101 General Chemistry I
- CHEM 103 Exp. General Chemistry
- PUBH 151 Biostatistics for Health Sciences

Major Electives (4 CH)

Students must complete a minimum of 4 credit hours in Major Elective courses:

- BIOM 213 Human Embryology
- BIOM 400 Seminar
- BIOM 401 Special Topics
- BIOM 410 Fundamental of Bioinformatics for Health Sciences
- BIOM 411 Forensic Sciences
- CHEM 231 Analytical Chemistry I
- CHEM 234 Experimental Analytical Chemistry
- PHYS 110 General Physics for Biology
- PHYS 111 Practical Physics For Biology
- PUBH 200 International and Global Health