

BBMS Plan of Study – Proposed July 2025

Semester – 1

Course Code	Course Title	Credits	Lectures hours	Laboratory/ Activity hours	Prerequisites
GER02	English Academic Reading and Writing *	2	2	0	None
BMS111	Chemistry	3	2	2	None
BMS115	Mathematics	3	3	0	None
BMS113	Human Biology	2	1	2	None
GER04	Emirati Studies*	3	3	0	None
BMS116	Introduction to Biomedical Sciences	1	1	0	None
Semester Total		14	12	4	

*General Education courses

Semester – 2

Course Code	Course Title	Credits	Lectures hours	Laboratory/ Activity hours	Prerequisites
BMS121	Biochemistry- I	3	2	2	Chemistry
BMS122	Analytical Techniques and Instrumentation	2	0	4	None
BMS123	Human Anatomy and Physiology- I	4	3	2	Human Biology
BMS124	Biophysics*	2	2	0	None
GER06	Technology in Health*	2	1	2	None
GER07	Principles of Psychology*	2	2	0	None
Semester Total		15	10	10	

*General education courses

Semester – 3

Course Code	Course Title	Credits	Lecture hours	Laboratory/ Activity hours	Prerequisites
BMS211	Biochemistry- II	3	2	2	Biochemistry- I
BMS212	Biostatistics	3	3	0	Mathematics
BMS213	Human Anatomy and Physiology -II	4	3	2	Human Anatomy and Physiology- I
BMS214	Human Genetics	3	2	2	Human Biology
BMS215	Nutrition	2	2	0	Biochemistry- I
Semester Total		15	12	6	

Semester – 4

Course Code	Course Title	Credits	Lectures hours	Laboratory/ Activity hours	Prerequisites
BMS221	Molecular Biology	3	2	2	Human Genetics Biochemistry- I
BMS222	Microbiology	3	2	2	None
BMS223	Cell Biology and Histology	3	2	2	Human Biology
BMS224	Human Developmental Biology	3	2	2	Human Biology
GER05	Entrepreneurship Innovation & Sustainability*	3	2	2	None
BMS226	Epidemiology	2	1	2	None
Semester Total		17	11	12	

Semester – 5

Course Code	Course Title	Credits	Lectures hours	Laboratory/ Activity hours	Prerequisites
BMS311	Pathology-I	4	3	2	Human Anatomy and Physiology -II Cell Biology and Histology
BMS312	Pharmacology-I	3	3	0	Human Anatomy and Physiology -II
BMS313	Immunology	3	2	2	Microbiology
BMS314	Medical Microbiology- I	3	2	2	Microbiology
BMS315	Research Methods	2	2	0	None
BMS316	Bioinformatics	2	1	2	Molecular Biology
Semester Total		17	13	8	

Semester – 6

Course Code	Course Title	Credits	Lectures hours	Laboratory/ Activity hours	Prerequisites
BMS321	Pathology-II	4	3	2	Pathology-I Biochemistry- II
BMS322	Pharmacology-II	3	3	0	Pharmacology-I
BMS323	Forensic Medicine and Toxicology	2	2	0	Human Anatomy and Physiology -II Pharmacology-I
BMS324	Medical Microbiology – II	4	3	2	Microbiology
BMS325	Research Project-I (Proposal)	1	0	2	Research Methods
BMS326	Journal Club	1	0	2	Information Technology
BMS327 BMS328 BMS329 BMS320	Electives: Neuroscience and Behavioral Biology Complementary Medicine Regenerative Medicine Population Health	2	2	0	As per each course**
Semester Total		17	13	8	

Semester – 7

Course Code	Course Title	Credits	Lectures hours	Laboratory/ Activity hours	Prerequisites
BMS412	Clinical Biochemistry	3	2	2	Pathology-II
BMS417	Hematology and Transfusion Science	4	3	2	Pathology-II Immunology
BMS411	Medical Molecular Biology	3	2	2	Molecular Biology
BMS414	Biochemical Endocrinology	2	2	0	Pathology-II Pharmacology-II
BMS413	Clinical Immunology	2	1	2	Immunology
BMS415	Research Project –II	2	0	4	Research Project-I
BMS416	Clinical Laboratory Training I (6 hrs/week)#	2	0	6	-
Semester Total		18	10	18	

#Can also be done in summer/winter breaks as an elective

Semester – 8

Course Code	Course Title	Credits	Lectures hours	Laboratory/ Activity hours	Prerequisites
BMS422	Clinical Laboratory Training II (21 weeks, 5 days/week, 6 hours/day)	13	-	40	All Semester 1 to 7 courses
BMS421	Laboratory Management	1	0	2	-
BMS423	Research Project-III	2	0	4	Research Project –II
Semester Total		16	0	46	
Grand Total		129			

Credit distribution: GE: 17; Core: 89; Research: 8; Laboratory: 15