

BS (4 Years) Clinical Laboratory Sciences

(4 Years)
8 Semesters

Total Credit Hours 132

Admission Criteria

12 years of formal education F. Sc. / A level or equivalent with Biology and Chemistry.
Minimum 45 % marks at intermediate level or equivalent. No third division in matric.

Scheme of Studies BS Clinical Laboratory Sciences

COURSE TITLE	CATEGORIES	COURSE CODE	CREDIT HOURS
Semester 1			
Introduction to Clinical Laboratory Sciences	Major-01	BSCLS-101	3(2+1)
Islamic Studies	G. Ed.-01	ISL-301	3(3+0)
English Grammar & Composition	G. Ed.-02	ENG-301	3(3+0)
Introduction to Computer	G. Ed.-03	CS-301	3(3+0)
Urdu	G. Ed.-04	URDU-301	3(3+0)
Semester 2			
Bio Safety & Bio Security	Major-02	BSCLS-102	3(2+1)
Pakistan Studies	G. Ed.-05	PAKS-301	3(3+0)
Basic Communication Skills	G. Ed.-06	ENG-302	3(3+0)
Islamic History	G. Ed.-07	PAKS-302	3(3+0)
Basic Computer Programming	G. Ed.-08	CS-302	3(3+0)

Semester 3			
Human Physiology	Major-03	BSCLS-103	3(2+1)
Human Anatomy	Major-04	BSCLS-104	3(2+1)
Technical Report Writing	G. Ed.-09	ENG-401	3(3+0)
Introduction to Laboratory Management	G. Ed.-10	MGT-401	3(3+0)
Introduction to Microbiology	G. Ed.-11	MIC-401	3(2+1)
Semester 4			
Medical Biochemistry-I	Major-05	BSCLS-105	3(2+1)
General Pathology-I	Major-06	BSCLS-106	3(2+1)
Clinical Laboratory Instrumentations	Major-07	BSCLS-107	3(2+1)
Introduction to Human Rights in Health Care Sectors	G. Ed.-12	LAW-403	3(2+1)
Introduction to Biotechnology	G. Ed.-13	BTCH-401	3(2+1)
Semester 5			
General Pathology-II	Major-08	BSCLS-108	3(2+1)
Clinical Bacteriology	Major-09	BSCLS-109	3(2+1)
Human Genetics & Cytogenetics	Major-10	BSCLS-110	3(2+1)
Hematology	Major-11	BSCLS-111	3(2+1)
Medical Biochemistry-II	Major-12	BSCLS-112	3(2+1)
Clinical Virology	Major-13	BSCLS-113	3(2+1)

Semester 6			
Clinical Parasitology & Mycology	Major-14	BSCLS-114	3(2+1)
Histopathology & Cytology	Major-15	BSCLS-115	3(2+1)
Chemical Pathology	Major-16	BSCLS-116	3(2+1)
Blood Banking & Blood Transfusion	Major-17	BSCLS-117	3(2+1)
Forensic Sciences	Major-18	BSCLS-118	3(2+1)
Bioinformatics & Public Health	Major-19	BSCLS-119	3(2+1)
Semester 7			
Immunology & Serology	Major-20	BSCLS-120	3(2+1)
Pharmacology & therapeutics	Major-21	BSCLS-121	3(2+1)
Molecular Biology	Major-22	BSCLS-122	3(2+1)
Clinical Pathology	Major-23	BSCLS-123	3(2+1)
Research Methodology	Major-24	BSCLS-124	3(2+1)
Antimicrobial Agents	Major-25	BSCLS-125	3(2+1)
Semester 8			
Research Project/Internship/Assignment	Major-26	BSCLS-126	0,6
Epidemiology & Biostatistics	Major-27	BSCLS-127	3(3+0)
Medical Bioethics	Major-28	BSCLS-128	3(3+0)
Infectious Disease Diagnostic Techniques	Major-29	BSCLS-129	3(2+1)
Business Development & Entrepreneurship	Major-30	BSCLS-130	3(3+0)