

BS Medical Lab Technology (AHS)

SEMESTER I			
S.N.	COURSE	CREDIT HOURS	CATEGORY
MLT-501	<u>Human Anatomy</u>	2	Major: AHS Common Core
MLT-501-L	<u>Human Anatomy Lab</u>	1	Major: AHS Common Core
MLT-502	<u>Human Physiology</u>	2	Major: AHS Common Core
MLT-502-L	<u>Human Physiology Lab</u>	1	Major: AHS Common Core
MLT-503	<u>Introduction to Medical Biochemistry</u>	1	Major: AHS Common Core
MLT-503-L	<u>Introduction to Medical Biochemistry Lab</u>	1	Major: AHS Common Core
ENG-501	Functional English	3	General Education
ICT-501	Applications of Information and Communication Technologies (ICT)	2	General Education
ICT-501-L	Applications of Information and Communication Technologies (ICT) Lab	1	General Education
BIO-501	Fundamental of Biology	2	General Education
BIO-501-L	Fundamental of Biology Lab	1	General Education
Total Credit Hours = 17			

SEMESTER II			
S.N.	COURSE	CREDIT HOURS	CATEGORY
MLT-504	<u>Introduction to Medical Laboratory Technology</u>	2	Major: AHS Common Core
MLT-505	<u>First Aid & Emergency Care</u>	1	Major: AHS Common Core
MLT-505-L	<u>First Aid & Emergency Care Lab</u>	1	Major: AHS Common Core
MLT-506	<u>Introduction to Medical Equipment & Technology</u>	2	Major: AHS Common Core
MLT-506-L	<u>Introduction to Medical Equipment & Technology Lab</u>	1	Major: AHS Common Core
MLT-507	<u>Introduction to Allied Health Sciences - I</u>	2	Major: AHS Common Core
MLT-508	Patient Safety & Infection Control	1	Major: AHS Common Core
MLT-508-L	Patient Safety & Infection Control Lab	1	Major: AHS Common Core
SOC-500	Introduction to Sociology	2	General Education

ISL-501	Islamic Studies (Religious Edu / Ethics for non-Muslim students)	2	General Education
ENG-502	Expository Writing	3	General Education
Total Credit Hours = 18			

SEMESTER III			
S.N.	COURSE	CREDIT HOURS	CATEGORY
MLT-509	Introduction to Allied Health Sciences - II	2	Major: AHS Common Core
MLT-510	<u>General Pathology</u>	2	Major: AHS Common Core
MLT-510-L	<u>General Pathology Lab</u>	1	Major: AHS Common Core
MLT-511	<u>Introduction to Public Health and Epidemiology</u>	3	Major: AHS Common Core
QRE-501	Quantitative Reasoning – I	3	General Education
ARB-500	Arabic language	2	General Education
CCE-501	Civics and Community Engagement	2	General Education
ICP-501	Ideology and Constitution of Pakistan	2	General Education
UHQ-501	Understanding of Holy Quran - I	1 (0-1)	General Education
Total Credit Hours = 18			

SEMESTER IV			
S.N.	COURSE	CREDIT HOURS	CATEGORY
MLT-512	<u>General Pharmacology</u>	2	Major: AHS Common Core
MLT-512-L	<u>General Pharmacology Lab</u>	1	Major: AHS Common Core
UHQ-502	Understanding of Holy Quran - II	1 (0-1)	General Education
QRE-502	Quantitative Reasoning – II	3	General Education
MLT-513	Healthcare Systems & Policies	2	Major: AHS Common Core
MLT-514	Healthcare Marketing & Management	2	Major: AHS Common Core
MLT-515	Introduction to Nursing Practice	2	Major: AHS Common Core
MLT-151-L	Introduction to Nursing Practice Lab	1	Major: AHS Common Core
ENT-501	Entrepreneurship	2 (2-0)	General Education

PKS-501	Pakistan Studies	2 (2-0)	General Education
Total Credit Hours = 18			

SEMESTER V			
S.N.	COURSE	CREDIT HOURS	CATEGORY
MLT-601	<u>Hematology</u>	2	Major: Domain Core
MLT-601-L	<u>Hematology Lab</u>	1	Major: Domain Core
MLT-602	<u>Clinical Biochemistry</u>	2	Major: Domain Core
MLT-602-L	<u>Clinical Biochemistry Lab</u>	1	Major: Domain Core
MLT-603	<u>Clinical Bacteriology and Virology</u>	2	Major: Domain Core
MLT-603-L	<u>Clinical Bacteriology and Virology Lab</u>	1	Major: Domain Core
MLT-604	<u>Medical Laboratory Instrumentations</u>	2	Major: Domain Core
MLT-604-L	<u>Medical Laboratory Instrumentations Lab</u>	1	Major: Domain Core
MLT-605	<u>Molecular Biology</u>	2	Major: Domain Core
MLT-605-L	<u>Molecular Biology Lab</u>	1	Major: Domain Core
MLT-606	<u>Supervised Clinical Practice – I: Biochemistry</u>	3 (0-3)	Major: Domain Core
Total Credit Hours (18)			

SEMESTER VI			
S.N.	COURSE	CREDIT HOURS	CATEGORY
MLT-607	Chemical Pathology	2	Major: Domain Core
MLT-607-L	Chemical Pathology <u>Lab</u>	1	Major: Domain Core
MLT-608	Medical Parasitology & Mycology	2	Major: Domain Core
MLT-608-L	Medical Parasitology & Mycology <u>Lab</u>	1	Major: Domain Core
BST-601	Biostatistics	2	Interdisciplinary
BST-601-L	Biostatistics <u>Lab</u>	1	Interdisciplinary
MLT-609	Supervised Clinical Practice – II: Microbiology	3 (0-3)	Major: Domain Core
MLT-610	Immunology & Serology	2	Major: Domain Core
MLT-	Immunology & Serology <u>Lab</u>	1	Major: Domain Core

610-L			
Total Credit Hours (15)			

SEMESTER VII			
S.N.	COURSE	CREDIT HOURS	CATEGORY
MLT-611	Blood Bank & Transfusion Medicine	2	Major: Domain Core
MLT-611-L	Blood Bank & Transfusion Medicine Lab	1	Major: Domain Core
BIF-601	Bioinformatics	2	Interdisciplinary
BIF-601-L	Bioinformatics Lab	1	Interdisciplinary
MLT-612	Biotechnology	3	Major: Domain Core
MLT-613	Supervised Clinical Practice – III: Hematology	3 (0-3)	Major: Domain Core
AHS-501	Scientific Writing and Research Methods	3	Interdisciplinary
Total Credit Hours (15)			

SEMESTER VIII			
S.N.	COURSE	CREDIT HOURS	CATEGORY
AIH-601	Artificial Intelligence in Health Care	2	Interdisciplinary
AIH-601-L	Artificial Intelligence in Health Care	1	Interdisciplinary
MLT-615	Clinical Lab Management	2	Major: Domain Core
MLT-616	Cytology and Histotechniques	2	Major: Domain Core
MLT-616-L	Cytology and Histotechniques Lab	1	Major: Domain Core
MLT-617	Biomarkers in Disease Diagnosis	2	Major: Domain Core
MLT-617-L	Biomarkers in Disease Diagnosis Lab	1	Major: Domain Core
MLT-618	Supervised Clinical Practice – IV: Immunology and Serology	3 (0-3)	Major: Domain Core
MLT-619	Capstone Project	3	Capstone
Total Credit Hours (17)			