

### BS Anesthesia Technology (AHS)

<b>SEMESTER I</b>			
<b>S.N.</b>	<b>COURSE</b>	<b>CREDIT HOURS</b>	<b>CATEGORY</b>
ANT-501	Human Anatomy	2	Major: AHS Common Core
ANT-501-L	Human Anatomy- Lab	1	Major: AHS Common Core
ANT-502	Human Physiology	2	Major: AHS Common Core
ANT-502-L	Human Physiology-Lab	1	Major: AHS Common Core
ANT-503	Introduction to Medical Biochemistry	1	Major: AHS Common Core
ANT-503-L	Introduction to Medical Biochemistry-Lab	1	Major: AHS Common Core
BIO-501	Fundamental of Biology	2	General Education
BIO-501-L	Fundamental of Biology-Lab	1	General Education
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
<b>Total Credit Hours = 17</b>			

<b>SEMESTER II</b>			
<b>S.N.</b>	<b>COURSE</b>	<b>CREDIT HOURS</b>	<b>CATEGORY</b>
ANT-504	Introduction to Anesthesia Technology	2	Major: AHS Common Core
ANT-505	First Aid & Emergency Care	1	Major: AHS Common Core
ANT-505-L	First Aid & Emergency Care-Lab	1	Major: AHS Common Core
ANT-506	Introduction to Medical Equipment & Technology	2	Major: AHS Common Core
ANT-506-L	Introduction to Medical Equipment & Technology-Lab	1	Major: AHS Common Core
ANT-507	Introduction to Allied Health Sciences - I	2	Major: AHS Common Core
ANT-508	Patient Safety & Infection Control	1	Major: AHS Common Core
ANT-508-L	Patient Safety & Infection Control-Lab	1	Major: AHS Common Core
ENG-502	Expository Writing	3	General Education
SOC-500	Introduction to sociology	2	General Education
ISL-501	Islamic Studies (Religious Edu / Ethics for non-Muslim students)	2	General Education
<b>Total Credit Hours = 18</b>			

**SEMESTER III**

<b>S.N.</b>	<b>COURSE</b>	<b>CREDIT HOURS</b>	<b>CATEGORY</b>
ANT-509	Introduction to Allied Health Sciences - II	2	Major: AHS Common Core
ANT-510	General Pathology	2	Major: AHS Common Core
ANT-510-L	General Pathology-Lab	1	Major: AHS Common Core
ANT-511	Introduction to Public Health and Epidemiology	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
<b>Total Credit Hours = 18</b>			

**SEMESTER IV**

S.N.	COURSE	CREDIT HOURS	CATEGORY
ANT-512	General Pharmacology	2	Major: AHS Common Core
ANT-512-L	General Pharmacology-Lab	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
ANT-513	Healthcare Systems & Policies	2	Major: AHS Common Core
ANT-514	Healthcare Marketing & Management	2	Major: AHS Common Core
ANT-515	Introduction to Nursing Practice	2	Major: AHS Common Core
ANT-515-L	Introduction to Nursing Practice- LAb	1	Major: AHS Common Core
ENT-501	Entrepreneurship	2	General Education
PKS-501	Pakistan Studies	2	General Education
<b>Total Credit Hours = 18</b>			

**SEMESTER V**

S.N.	COURSE	CREDIT HOURS	CATEGORY
ANT-601	Physiology related to Anesthesia	2	Major: Domain Core
ANT-601-L	Physiology related to Anesthesia-Lab	1	Major: Domain Core
ANT-602	Hematology related to Anesthesia	2	Major: Domain Core
ANT-602-L	Hematology related to Anesthesia- Lab	1	Major: Domain Core
ANT-603	Physics related to Anesthesia	1	Major: Domain Core
ANT-603-L	Physics related to Anesthesia-Lab	1	Major: Domain Core
ANT-604	Anesthesia Equipment	1	Major: Domain Core
ANT-604-L	Anesthesia Equipment-Lab	1	Major: Domain Core
ANT-605	Anesthetic Drugs	2	Major: Domain Core
ANT-605-L	Anesthetic Drugs-Lab	1	Major: Domain Core
ANT-606	Supervised Clinical Practice - I	3 (0-3)	Major: Domain Core
<b>Total Credit Hours = 16</b>			

**SEMESTER VI**

<b>S.N.</b>	<b>COURSE</b>	<b>CREDIT HOURS</b>	<b>CATEGORY</b>
ANT-607	Mechanical Ventilation	1	Major: Domain Core
ANT-607-L	Mechanical Ventilation-Lab	1	Major: Domain Core
ANT-608	Anesthesia & Co-existing Diseases	2	Major: Domain Core
ANT-608-L	Anesthesia & Co-existing Diseases-Lab	1	Major: Domain Core
BST-601	Biostatistics & Research Methods	2	Interdisciplinary
BST-601-L	Biostatistics & Research Methods- Lab	1	Interdisciplinary
ANT-	Advances in Anesthesia	2	Major: Domain Core
XXX	Cardiac Electrophysiology	1	Interdisciplinary
XXX	Cardiac Electrophysiology-Lab	1	Interdisciplinary
ANT-609	Supervised Clinical Practice - II	3 (0-3)	Major: Domain Core
<b>Total Credit Hours = 15</b>			

<b>SEMESTER VII</b>			
<b>S.N.</b>	<b>COURSE</b>	<b>CREDIT HOURS</b>	<b>CATEGORY</b>
ANT-610	Anesthesia for General, Orthopedic & Oncological Surgery	1	Major: Domain Core
ANT-610-L	Anesthesia for General, Orthopedic & Oncological Surgery- Lab	1	Major: Domain Core
ANT-611	Anesthesia and Critical Care	1	Major: Domain Core
ANT-611-L	Anesthesia and Critical Care -Lab	1	Major: Domain Core
ANT-612	Anesthesia for Cardiothoracic, Neuro & Transplant Surgery	1	Major: Domain Core
ANT-612-L	Anesthesia for Cardiothoracic, Neuro & Transplant Surgery-Lab	1	Major: Domain Core
ANT-613	Anesthesia for ENT, Ophthalmic, Dental & Daycare Procedures	1	Major: Domain Core
ANT-613-L	Anesthesia for ENT, Ophthalmic, Dental & Daycare Procedures-Lab	1	Major: Domain Core
XXX	Pain Management and Palliative Care	1	Interdisciplinary
XXX	Pain Management and Palliative Care - Lab	1	Interdisciplinary
XXX	Fluid and Electrolyte Therapy	1	Interdisciplinary
XXX	Fluid and Electrolyte Therapy- Lab	1	Interdisciplinary
ANT-614	Supervised Clinical Practice – III	3 (0-3)	Major: Domain Core
<b>Total Credit Hours = 15</b>			

<b>SEMESTER VIII</b>			
<b>S.N.</b>	<b>COURSE</b>	<b>CREDIT HOURS</b>	<b>CATEGORY</b>
ANT-615	Anesthesia for Pediatric, Obstetric & Special Population Surgery	2	Major: Domain Core
ANT-615-L	Anesthesia for Pediatric, Obstetric & Special Population Surgery- Lab	1	Major: Domain Core
ANT-616	Emergency Anesthesia, Simulation & Ethical Practice	2	Major: Domain Core
ANT-616-L	Emergency Anesthesia, Simulation & Ethical Practice-Lab	1	Major: Domain Core
ANT-617	Complications related to Anesthesia	2	Major: Domain Core

ANT-617-L	Complications related to Anesthesia-Lab	1	Major: Domain Core
ANT-618	Supervised Clinical Practice – IV	3 (0-3)	Major: Domain Core
ANT-619	Capstone Project	3	Capstone
AIH-601	Artificial Intelligence in Health Care	2	Interdisciplinary
AIH-601-L	Artificial Intelligence in Health Care- Lab	1	Interdisciplinary
<b>Total Credit Hours = 18</b>			