

Appendix VII Program description for Anesthesia Technology

Anesthesia Technology

An anesthesia technologist is a **healthcare worker who supports the administration of anesthesia and the monitoring of patients who are under anesthesia**. These technologists require a broad knowledge of the use and maintenance of anesthesia instruments, as well as the technology and techniques of the field of anesthesiology. They typically work under the supervision of a professional anesthesiologist or anesthetist.

The anesthesia technology program at AUIB requires 123 semester credits (hours) in a range of courses that start with a liberal arts offering but rapidly move into the science and technology required for a professional education. The required courses are listed below along a suggested course sequence.

Bachelor of Science Degree in Anesthesia Technology Four academic years – 123 credit hours

Core Liberal Art Courses - 42 Credits		
<u>Course Code</u>	<u>Course Name</u>	<u>Credit Number</u>
BIO 101	Introductory Biology	3
CHE 105	Chemistry for Healthcare Professions	3
CSC 101	Introduction to Computer Science	3
ENL 101	Expository Writing	3
ENL 201	Academic Writing	3
ENL 210	Introduction to Public Speaking	3
HIS 101	Civilizations and History I	3
HIS 102	Civilizations and History II	3
HUM 101	Introduction to Humanities	3
MAT 101	College Algebra	3
PHI 101	Introduction to Ethics	3
PSY 101	Introduction to Psychology	3
SOC 101	Introduction to Sociology	3
UNI 101	First-Year University experience	3
College Requirements – 22 Credits		
Course Code	Course Name	Credit Number
BIO 217	Human Anatomy and Physiology	3
BIO 217L	Human Anatomy and Physiology Lab	1
BIO 218	Pathophysiology	3
BIO 2XX	Biostatistics and Epidemiology	3
HCT 101	Fundamentals of Healthcare Professions	3
HCT 4XX	Technical Elective	3
HCT 4XX	Technical Elective	3

Core Requirements – 59 Credits

Course Code	Course Name	Credit Number
ANT 101	Introduction to Anesthesia Technology	3
CHE 215	Biochemistry for Health Care Professions	3
ANT 240	Anesthesia Technology Instrumentation	3
ANT 240L	Anesthesia Technology Instrumentation Lab	1
ANT 245	Pharmacology in Anesthesia Practice	3
ANT 295	Practicum I	3
ANT 320	Anesthesia Clinical Applications I	3
ANT 320L	Anesthesia Clinical Applications I Lab	1
ANT 340	Anesthesia Agents and Methods	3
ANT 340L	Anesthesia Agents and Methods Lab	1
ANT 330	Patient Monitoring Technology	3
ANT 343L	Operating Room Simulation Lab	1
ANT 350	Anesthesia Clinical Applications II	3
ANT 360	Perioperative Patient Care	3
ANT 370	Workroom Management	1
ANT 390	Postanesthetic and Pain Management	3
ANT 399	Practicum II	3
ANT 410	Special Topics in Anesthesia Technology	1
ANT 420	Anesthesia Clinical Applications III	3
ANT 430	Anesthesia Quality Assurance Lab	1
ANT 450	Anesthesia Clinical Applications III	3
ANT 455	Anesthetic Procedural Blocks	3
ANT 460	Anesthetic Emergencies	3
ANT 460L	Anesthetic Emergencies Lab	1
ANT 490	Practicum III	3
ANT 495	Practicum IV	3
ANT 496	Practicum V	3

YEAR I – 31 Credits

Spring Semester

UNI 101	First-Year University experience*	3cr
ENL 101	Expository Writing	3cr
BIO 101	Introductory Biology	3cr
CHE 105	Chemistry for Healthcare Professions	3cr
HCT 101	Fundamentals of Healthcare Professions	3cr
Total		15cr

* Student may choose to take another Core Liberal Art (CLA) course if this course schedule conflicts with a College Requirement course or Core course.

Fall Semester

CSC 101	Introduction to Computer Science	3cr
MAT 101	College Algebra	3cr
PHI 101	Introduction to Ethics	3cr

BIO 217	Human Anatomy and Physiology	3cr
BIO 217L	Human Anatomy and Physiology Lab	1cr
ANT 101	Introduction to Anesthesia Technology	3cr
Total		16cr

YEAR II – 28 Credits

Spring Semester

HIS 101	Civilizations and History*	3cr
ENL 201	Academic Writing	3cr
CHE 215	Biochemistry for Health Care Professionals	3cr
ANT 240	Anesthesia Technology Instrumentation	3cr
ANT 240L	Anesthesia Technology Instrumentation Lab	1cr
Total		13cr

** Student may choose to take another Core Liberal Art (CLA) course if this course schedule conflicts with a College Requirement course or Core course.*

Fall Semester

HIS 102	Civilizations and History II*	3cr
ENL 210	Introduction to Public Speaking	3cr
BIO 218	Pathophysiology	3cr
BIO 2XX	Biostatistics and Epidemiology	3cr
ANT 245	Pharmacology in Anesthesia Practice	3cr
Total		15cr

** Student may choose to take another Core Liberal Art (CLA) course if this course schedule conflicts with a College Requirement course or Core course.*

Summer Semester

ANT 295	Practicum I	3cr
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YEAR III – 31 Credits

Spring Semester

HUM 101	Introduction to Humanities*	3cr
ANT 320	Anesthesia Clinical Applications I	3cr
ANT 320L	Anesthesia Clinical Applications I Lab	1cr
ANT 340	Anesthesia Agents and Methods	3cr
ANT 340L	Anesthesia Agents and Methods Lab	1cr
ANT 330	Patient Monitoring Technology	3cr
Total		14cr

** Student may choose to take another Core Liberal Art (CLA) course if this course schedule conflicts with a College Requirement course or Core course.*

Fall Semester

ANT 343L	Operating Room Simulation Lab	1cr
ANT 350	Anesthesia Clinical Applications II	3cr
ANT 360	Perioperative Patient Care	3cr
ANT 370	Workroom Management	1cr
HCT 4XX	Technical Elective	3cr
ANT 390	Postanesthetic and Pain Management	3cr
Total		14cr

Summer I Semester

ANT 399	Practicum I	3cr
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YEAR IV – 30 Credits**Spring Semester**

SOC 101	Introduction to Sociology*	3cr
ANT 420	Anesthesia Clinical Applications III	3cr
ANT 460	Anesthetic Emergencies	3cr
ANT 460L	Anesthetic Emergencies Lab	1cr
ANT 410	Special Topics in Anesthesia Technology	1cr
ANT 430L	Anesthesia Quality Assurance Lab	1cr
ANT 490	Practicum II	3cr
Total		15cr

** Student may choose to take another Core Liberal Art (CLA) course if this course schedule conflicts with a College Requirement course or Core course.*

Fall Semester

PSY 101	Introduction to Psychology*	3cr
HCT 4XX	Technical Elective	3cr
ANT 455	Anesthetic Procedural Blocks	3cr
ANT 495	Practicum IV	3cr
ANT 496	Practicum V	3cr
Total		15cr

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Technical Electives:

HCT 480	Marketing in the Healthcare sector	3cr
HCT 481	Health Informatics	3cr
HCT 482	Leadership in Healthcare	3cr
HCT 483	Introduction to Clinical Research	3cr