



Student Handbook

ANESTHESIA TECHNOLOGY - COLLEGE OF APPLIED
MEDICAL SCIENCES

King Saud bin Abdulaziz University for Health
Sciences

ANESTHESIA TECHNOLOGY | 2023/2024

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Mission and Vision of the Program

Mission

Our mission is to provide high quality health sciences education, implement research-based environment, and advocate community services that promote the health of the society.

Vision

Anesthesia Technology program at KSAU-HS aims to become a recognized identity and excellent example in teaching and generating high-level bachelor's degree holders worldwide.

Description of the Program

Anesthesia Technology Program (ANTS) is an allied health profession specifically focused on fundamental and advanced clinical procedures which assist the anesthesiologist in providing safe and efficient care of patients undergoing anesthesia.

Anesthesia Technologists may work in a variety of clinical settings including hospital operating room, interventional and diagnostic radiology, labor and delivery units, intensive care units, emergency rooms, outpatient procedure suites and day care operating room. Anesthesia Technologists is responsible of IV team services and provide the highest standard of care for all patients, pediatric and adult who require Intravenous cannulation.

The Goals of the Program

Our goal for the Anesthesia Technology program is the following:

1. Graduate qualified competent Anesthesia Technologists.
2. Engage graduates to participate in community services.
3. Prepare graduates to conduct innovation and scientific research.

Program Learning Outcome

The following table shows the program learning outcome for the Anesthesia Technology program

Program learning Outcomes	
Knowledge and understanding	
K1	Describe basic sciences, anatomy, physiology and pharmacology related to Anesthesia Technology
K2	Define the responsibilities of Anesthesia Technologist within interventional, diagnostic and surgical procedures.
K3	Identify all types of Anesthesia and the required skills and tests for various procedures
Skills	
S1	Participate in scientific research, community, and interprofessional activities related to anesthesia technology.
S2	Perform clinical procedures, computations and interpretations related to Anesthesia Technology.
S3	Prepare tools and equipment related to Anesthesia Technology.
S4	Develop teamwork ability, leadership and communication skills
Values	
V1	Demonstrate professional behavior, ethical principles, teamwork, leadership and communication skills.

Requirements

The students must fulfill university admission requirements in addition to the pre-professional courses in the College of Science and Health Professions (COSHP) including the introductory course. This process is fully automated through the Student Information System (SiS) and is governed by the Deanship of Admission and Registration (DAR) with the support of the Deanship of Student Affairs (DSA). Once the admission gate opens, applicant's can submit their applications through the University website. After the first year in the pre-professional year, students will be segregated into the program based on their cumulative grade point average (cGPA), and student's own preferences taking the program's capacity into consideration

For more information, please scan the following QR code



Study Plan

The following table shows the Anesthesia Technology student's study plan in their professional years

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 7	ANTS 301	Anesthesia Fundamentals	Required	ANTC 201	5	Department
	ANTS 302	Anesthesia Equipment	Required	ANTC 201	5	Department
	ANTS 303	Clinical Observation I	Required	ANTC 201	2	Department
		Total			12	
Level 8	ANTS 304	Anesthesia Pharmacology	Required	ANTC 201	5	Department
	ANTS 305	Respiratory Module	Required	ANTC 201	4	Department
	CAMS 301	Research Methodology I	Required		2	Department
		Total			11	
Level 9	ANTS 306	Airway Management	Required	ANTC 201	5	Department
	ANTS 307	Cardiovascular Module	Required	ANTC 201	5	Department
	ANTS 311	Clinical Observation II	Required	ANTC 201 ANTS 303	2	Department
		Total			12	
Level 10	ANTS 401	Central Nervous System Module	Required	ANTC 201	4	Department
	ANTS 402	Renal & Endocrine	Required	ANTC 201	4	Department
	ANTS 403	Clinical Practice	Required	ANTC 201, ANTS 303, ANTS 311	2	Department
		Total			10	

Level 11	ANTS 404	Paediatric & Obstetric Anaesthesia	Required	ANTC 201	4	Department
	ANTS 405	Applied Anaesthesia Practice	Required	ANTC 201	4	Department
	ANTS 406	Professional Practice	Required	ANTC 201	2	Department
		Total			10	
Level 12	ANTS 407	Anaesthesia Crisis Management	Required	ANTC 201	4	Department
	ANTS 408	Anaesthesia Capstone	Required	ANTC 201, ANTS 303, ANTS 311, ANTS 403	6	Department
	CAMS 412	Research Methodology II	Required	CAMS 301	2	Department
		Total			12	

Research Unit

If the student requires any assistance or any useful information to facilitate their research, they may visit the research unit located on the second floor or contact with their research officer, and if any student wants any assistance with their research such as with data analysis, writing the research abstract or to access the Bestcare system, such information is provided in the following QR code



Community

In each program there is a community officer allocated to support the students in regards to designing, conducting and evaluating the community engagement activity.

Academic Counseling

An academic counselor will be assigned to each student and counselling sessions will be conducted at least twice per semester, they will conduct a consultation in regards to the academic performance of the student, the counselor may provide some guidance and advices to help the student with their academic and non-academic situations in order to improve their performance and satisfaction.

Student Affairs

Student Affairs is concerned with Extra Curriculum activities to help the students communicate and interact with their colleagues in other Saudi colleges and universities as well as in the local community and international universities. The student activities aim to build a balanced personality which helps the students in investing their free time in achieving academia and excellence. Moreover, to fulfill the university plans in achieving its educational objectives and encouraging students to utilize their free time, Student Affairs Department submits a proposal during each academic year for students' extra-curricular activities. Students Affairs services may include student's orientation, election for student representatives, establishing student board or Student Society, provide lockers, badge renewal, assistance in textbooks purchase, tickets purchase, facilitating student's transportation. For more information scan the following QR codes.



Student Fund



Student society

University Student Guidebook

The student guidebook provides a basic information about the university which includes important contact info, departments in the university and some provided services. For more information, you can scan the following QR code below.



Arabic (Page 1)



English (Page 172)

University student rights and responsibilities

You may find the student rights and responsibilities in the following QR codes



English



Arabic

University Examination bylaws

You may find the university examination bylaws in the following QR codes



English



Arabic

Library

The role of the library in health sciences is to provide a learning center where students, faculty members and the staff of the organization can develop the skills and knowledge needed to enhance the quality of healthcare with a multidisciplinary approach, which incorporates discussion, lectures, and hands-on training. Under the vision of COAMS, the Library is committed to providing the highest quality learning environment through innovative methods of retrieving, storage and sharing of information for lifelong learning. Other services include a digital library and databases.

University car sticker permit

The student must first submit a request form on the website, after requesting the permit, you should go to the admin building, second floor to receive it. You may scan the following QR code for more information



Well-Student Center

The Well-Student center offers counseling to help students work through their difficulties as well as finding way to manage their situation and better understanding themselves. You can find more information by scanning the following QR code



Medical and Dental consultation

If the student needs any medical or dental consultation, first, they must go to the student affairs offices and request and fill a medical and dental consultation form and should be signed by the student affairs, then go to the student clinic center via tram system and stop at the respective station. For more information on the tram stations please scan the following QR code.



All admitted students are requested to complete their medical exam and serology test at the hospital Employee Health Clinic.

1. All admitted students should receive the vaccination card from the nurse at the Employee Health Clinic and ensure that their vaccination card is completed, signed, and stamped by the nurse upon completion of each dose.
2. Each student is required to submit a copy of the vaccination card to the Admission and Registration Department at the completion of the first semester and to follow up with the Employee Health Clinic for vaccination card updates.
3. Each student is responsible for completing the needed vaccination doses by the end of the first semester.
4. Each student must report to the Office of Selection, Admission and Registration by presenting the vaccination card as a prerequisite for the following semester registration.
5. Students cannot proceed with the registration process for the following semester unless their vaccination is completed.

Graduate Attributes

The following table shows the graduate attributes for the Anesthesia Technology Program

Graduate Attributes:		
The Anesthesia Technology program graduate attributes are aligned with College and University graduate attributes which are also aligned with the Institutional Learning Outcomes as shown in the table below:		
Program/Graduate Attributes	College Graduate Attributes	Institutional Graduate Attributes
Clear knowledge of Anesthesia Technology	Excellence and innovation in education	In-depth knowledge
Problem-solving and creative and critical thinking	Integration of contemporary technologies	Critical thinking and problem solving
Skilled and competent clinical researcher in the field of Anesthesia Technology	Personal, professional, and scholarly development	Proficiency in research
Lifelong learning, professionalism, and dedication to learning commitment	Commitment to lifelong learning	Life-long learning
Effective teamwork and communication skills with other team members	Effective communication and teamwork	Efficient in teamwork
Applying ethical and digital competency values	Ethical behavior and Islamic Value	Versed in ethics concepts
Effective communication interpersonal, and leadership qualities	Integrity in personal and professional life	Effective communication
Efficient and competent patient care	Safe patient care and competency in discipline-related skills	Safe patient care and competency in discipline-related skills

Career Opportunity and Specialty

Some of the career opportunity the Anesthesia Technology students' might have include but not limited to:

1. Working in the hospital as an invasive cardiovascular technologist
2. Working in the academic field
3. Working in a private sector

If the student requires any advice with their career choice, they may scan the following QR Code

