



ANESTHESIA TECHNOLOGY PROGRAM HANDBOOK

COLLEGE OF APPLIED MEDICAL SCIENCES-RIYADH, KSAU-HS

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1. Program Mission:

Anesthesia Technology Program provides high-quality of teaching and learning, and effective participation in anesthesia related research and community engagement.

2. College and Program Management

Name	Position	Branch
Dr. Abdullah Al Abdali	Dean	Riyadh branch
Dr. Lafi Al Olayan	Program Chairman	
Dr. Mohamed AlSabani	Assistant professor	
Dr. Mohammed Al Harbi	Associate professor	
Mr. Mohamed Ismail	Lecturer	
Ms. Nour Mohamed	Lecturer	
Mr. Saleh Aljuraiss	Teaching assistant	
Mr. Ahmed Alotaibi	On scholarship	
Ms. Norah Alawad		
Ms. Saja Alharbi		
Ms. Abeer Samman		
Mr. Faraj Alenezi		

3. Program Goals:

- To graduate qualified competent Anesthesia Technologists.
- To engage graduates to participate in community services.
- To prepare graduates to conduct innovation and scientific research.

4. Graduate Attributes:

Graduated students will be qualified Anesthesia Technologists to practice in operating rooms and participate in research and community services. The Anesthesia Technology Program graduate attributes are aligned with College and University graduate attributes which are also aligned with the Institutional Learning Outcomes.

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

5. 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.

6. Program Admission and Support:

1. Student Admission Requirements
<p>Admission to KSAU-HS depends on the competition for available seats annually according to the admission criteria.</p> <ul style="list-style-type: none"> Admission Criteria: https://www.ksauhs.edu.sa/Arabic/admission/pages/admissionrequirementsm_r.aspx http://cams.ksau-hs.edu.sa/index.ph/en/students/admission-and-registration <p>The Anesthesia Technology program is following the University's academic bylaws, policies and procedures under the umbrella of the Ministry of Education. 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, applicants can submit their applications through the University website or the Ministry of Education's (MOE) unified admission gate. The admission criteria and requirements are available in the admission booklet and University social networks. The University's admission requirements include a Saudi nationality, recent high school certificate and a weighted score not lower than 90%. The weighted score is a ratio consists of high school achievement, general aptitude test grade, and of scholastic achievement grade.</p> <p>Upon admission, all students are enrolled into the first Pre-Professional Year as health sciences students. After the first year in Pre-Professional year they will be segregated into the program based on their cumulative grade point average (cGPA), and student's own preferences taking the program capacity into consideration.</p>
2. Guidance and Orientation Programs for New Students
<ul style="list-style-type: none"> At the beginning of every new academic year, KSAU-HS holds an orientation ceremony for its new students, organized by the Deanship of Student Affairs in cooperation with the College of Sciences and Health Professions. The College also provides guidance and orientation activities, including tour of the College programs, facilities, etc. The Department also includes an introductory tour in the College facilities as well as explanatory workshops to help students on how to overcome the obstacles and a simplified explanation of the use of academic and learning applications for students. Students are also provided with related handbooks which can be accessible online. For example: <ul style="list-style-type: none"> Students' Rights and Responsibilities Bylaws https://ksau-hs.edu.sa/English/Deanships/Dqm/Documnets/2017/05/Students-Rights Bylaws-updated.pdf Study and Examination Bylaws

<https://ksau-hs.edu.sa/English/Deanships/Dqm/Documents/2017/05/Study-Examination-BylawsUpdated.pdf>

3. Student Counseling Services

(academic, career, psychological and social)

- Each faculty member will be assigned a group of students for counselling and advising. Every student will be required to meet his academic advisor at least twice per semester.
- Each faculty member will be asked to post his/her office hours during the semester which students can visit to receive counselling and advising.
- Well-student Center provides psychological support for all students to help them overcome academic life stress and difficulties. Additionally, it provides a suitable environment that inspires the personal and academic growth of students at all levels.

4. Special Support

(low achievers, disabled, gifted and talented)

- The low achievers are required to attend a counseling session with their advisors within the program and the Chairman of the Department to reveal the problems and offer solutions.
- The College has an Associate Dean, an Assistant Dean for Students and Academic Affairs, and Student Affairs Unit responsible for enhancing student's life inside the College and supporting their educational, social, intellectual and personal development to prepare them to a thriving profession.
- Student Affairs team significantly provides a high level of academic and scientific services and contributes to the awareness of the students.
- Student Affairs team members guide the students throughout their academic lives and help them to solve problems which might hinder their educational journey.
- If a student has a documented disability (or need to have a disability documented), and need an accommodation, he/she should contact his/her Department as soon as possible, so that the Department can discuss how to meet his/her specific needs and the requirements of the course.
- Well-Student Center provides psychological support for all students to help them overcome academic life stress and difficulties.

7. Curriculum Structure:

Program Structure	Required/ Elective	No. of Courses	Credit Hours	Percentage
Institution Requirements	Required	15	36	26%
	Elective			
College Requirements	Required	15	34	24.4%
	Elective			
Program Requirements	Required	19	69	49.6%
	Elective			
Others				
Total		49	139	100%

8. Program Study Plan:

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 1	ENGH 101	English Communication Skills	Required		3	
	ENGH 102	English Grammar I	Required		3	
	ENGH 103	English Reading and Vocabulary	Required		2	
	ARBC 101	Arabic Language Skills I	Required		2	
	ISLM 101	Islamic Culture	Required		2	
		Total			12	
Level 2	ENGH 111	English Academic Writing for Health Sciences I	Required		4	
	ENGH 112	English Grammar II	Required		2	
	ARBC 102	Arabic Language Skills II	Required		2	
	CHEM 111	Chemistry for Health Sciences I	Required		2	
	PHYS 111	Physics for Health Sciences I	Required		2	
		Total			12	
Level 3	ENGH 113	English Academic Writing for Health Sciences II	Required		4	
	ENGH 114	English Grammar III	Required		2	
	CHEM 112	Chemistry for Health Sciences II	Required		2	
	PHYS 112	Physics for Health Sciences II	Required		2	
	BIOL 111	Biology for Health Sciences	Required		2	
		Total			12	
Level 4	ENGH 211	English Academic Writing for Health Sciences III	Required		3	
	TERM 211	Medical Terminology	Required		2	
	BIOS 211	Biostatistics	Required		2	
	RESC 211	Research Skills	Required		1	
	BCHM 211	Basic Biochemistry for Health Sciences	Required		3	
	IMMC 214	Microbiology & Immunology for Applied Medical Sciences	Required		2	
		Total			13	

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 5	BCHM 216	Advanced Biochemistry for Applied Medical Sciences	Required		2	
	BEHS 211	Behavioral Sciences	Required		2	
	COMP 211	Computer Science & Health Informatics	Required		3	
	ANAT 214	Anatomy for Applied Medical Sciences	Required		3	
	PHYG 214	Physiology for Applied Medical Sciences	Required		2	
		Total			12	
Level 6	ETHC 211	Ethics for Health Care Profession	Required		1	
	AHPE 211	Applied Health Professions Education	Required		2	
	PAMG 214	Pathology and Molecular Genetics for Applied Medical Sciences	Required		3	
	PHRM 214	Pathology and Molecular Genetics for Applied Medical Sciences	Required		3	
	ANTS 201	Introduction to Anesthesia Technology	Required		2	
		Total			11	

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	ANTS 201	5	Department
	ANTS 302	Anesthesia Equipment	Required	ANTS 201	5	Department
	ANTS 303	Clinical Observation I	Required	ANTS 201	2	Department
		Total			12	
Level 8	ANTS 304	Anesthesia Pharmacology	Required	ANTS 201	5	Department
	ANTS 305	Respiratory Module	Required	ANTS 201	4	Department
	CAMS 301	Research	Required		2	Department

		Methodology I				
		Total			11	
Level 9	ANTS 306	Airway Management	Required	ANTS 201	5	Department
	ANTS 307	Cardiovascular Module	Required	ANTS 201	5	Department
	ANTS 311	Clinical Observation II	Required	ANTS 201 ANTS 303	2	Department
		Total			12	
Level 10	ANTS 401	Central Nervous System Module	Required	ANTS 201	4	Department
	ANTS 402	Renal & Endocrine	Required	ANTS 201	4	Department
	ANTS 403	Clinical Practice	Required	ANTS 201,ANTS 303, ANTS 311	2	Department
		Total			10	
Level 11	ANTS 404	Paediatric & Obstetric Anaesthesia	Required	ANTS 201	4	Department
	ANTS 405	Applied Anaesthesia Practice	Required	ANTS 201	4	Department
	ANTS 406	Professional Practice	Required	ANTS 201	2	Department
		Total			10	
Level 12	ANTS 407	Anaesthesia Crisis Management	Required	ANTS 201	4	Department
	ANTS 408	Anaesthesia Capstone	Required	ANTS 201,ANTS 303,ANTS 311,ANTS 403	6	Department
	CAMS 412	Research Methodology II	Required	CAMS 301	2	Department
		Total			12	

9. Course Description:

ANTS 201 – Introduction to Anesthesia Program

This introductory course of anesthesia technology program covers the origins and brief history of the profession of Anesthesia Technology. This course will allow students to learn the core foundation of Anesthesia Technology, and its principles. In addition, the basic knowledge acquired to understand the Anesthesia Technology Service.

ANTS 301 – Anesthesia Fundamentals

This course introduces students to principal knowledge and skills behind fundamental topics related to Anesthesia Technology. This includes various types of anesthesia, airway management, peripheral intravenous access, basic monitoring during anesthesia care, and positioning during surgical procedures. This course also develops knowledge and skills required to manage the operating room environment, infection control and prevention measures, and fire and electrical safety.

ANTS 302 – Anesthesia Equipment

Explain the Anesthetic equipment to familiarize the student with Anesthesia equipment particularly in preparing, operating and maintaining. The Anesthesia equipment's are major part of the future career task. The course consists of didactic lectures and hands-on skills to all ranges of equipment from basic to advanced technology. Also, to identify when there is a malfunction and troubleshooting of the equipment
ANTS 304 – Anesthesia Pharmacology
explains the concepts of pharmacotherapeutics in anesthesia and perioperative-related drugs, establishing a knowledge base that applies to patient care. This course also defines the major drug classifications to understand the concepts of human functioning emphasizing pathophysiology structured on the steps of the anesthesia.
ANTS 305 – Respiratory Module
This course equips the knowledge and concepts of respiratory system anatomy, cardiopulmonary physiology, pathophysiology related to cardiopulmonary diseases along with the fundamentals of mechanical ventilation initiation and monitoring measures that students need to progress in the anesthesia technology .
ANTS 306 – Airway Management
Airway management module is one of the most important areas of training for the anesthesia technologists. This module comprises of six weeks with comprehensive, structures lectures and practice sessions. During this period the students will be visiting operating rooms to witness how the airway management is being practiced in real time by the anesthesia team. Students will practice while using different instruments used in airway management simulation.
ANTS 307 – Cardiovascular Module
The cardiovascular system module is designed to instruct the structure, functions and disorders of the cardiovascular system. The module consists of a number of sections including risk factors, assessment & investigations; pathophysiology & medical management of the cardiovascular patient; other management strategies such as, mechanical cardiac support, interventional cardiology, cardiac surgery and transplantation anesthetic management of cardiovascular patient.
ANTS 401 – Central Nervous System Module
This module will explain the structure and function of the nervous system, which includes the gross anatomy of the human brain and spinal cord and its constituent systems including autonomic, sensory, visual, auditory, somatosensory, olfactory, limbic systems, the vasculature ventricles, and CSF.
ANTS 402 – Renal & Endocrine
Renal and Endocrine system is subdivided into two components, renal system and endocrine system. For the renal system, it will include anatomy and physiology related to renal system. In addition, acute and chronic renal failure and other common diseases related to the system will be taught. There will also be focus on anesthetic implications in patients with kidney diseases. Endocrine system covers the relevant anatomy, physiology, and the hormones secreted from all the endocrine glands, as well as the common pathological diseases and the hormones secretion disorders (either hypersecretion or hyposecretion of the hormone such as Diabetes Mellitus, Thyroid and Adrenal gland disorders, with relevant anesthetic implications.
ANTS 404 – Pediatric & Obstetric Anesthesia
The anesthetic management for the women at various degrees of risk, during labor & vaginal delivery, cesarean section, and postpartum hemorrhage. Also the interventions procedures for conditions threatening maternal or fetal life (ante-/post-partum hemorrhage, placental abruption, cord prolapse, uterine rupture, etc.). although the obstetric conditions of early pregnancy undergoing non-obstetric surgery during pregnancy. Assess newborns for congenital diseases undergoing emergency correction procedure. Evaluate children in various age groups with their anatomical and physiological difference form adult group

ANTS 405 – Applied Anesthesia Practice

Applied anesthesia practice module is one of the most important areas of training for the anesthesia technologists. This module comprises of eight weeks with comprehensive, structured lectures and practice sessions. During this period the students will be visiting operating rooms to see different types of patient encounter to different surgical procedure with different anesthetic approach

Applied anesthesia practice is of paramount importance for anesthesia technologists because they are active part of the anesthesia team, who are frontline health care providers both in elective and in emergency anesthesia care in operation rooms.

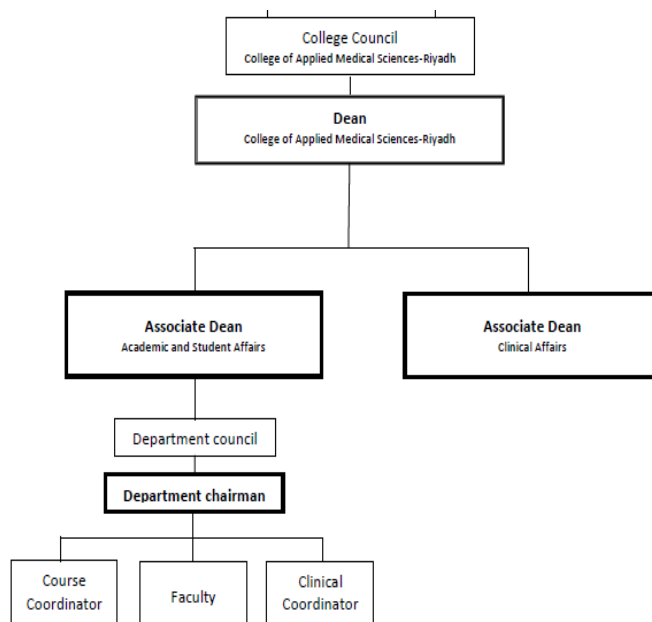
ANTS 406 – Professional Practice

The course is designed to provide anesthesia technology students with a working knowledge of the theoretical basis of the specialty, including its foundations in basic medical sciences and research. This course also helps anesthesia technology students to demonstrate the skills and attitudes to work efficiently within multidisciplinary teams, the necessary knowledge of patient anesthetic care and consultation. This course will enable anesthesia technology students to be clinically competent in anesthetic care across all age groups and all patient disease states. Students will be also able to recognize the requisite knowledge, skills, and attitudes for effective patient-centered care to a diverse population, as well as address issues of gender, age, culture, ethnicity and ethics in a professional manner.

ANTS 407 – Anesthesia Crisis Management

This course provides information about the factors contributing to poor outcomes associated with airway management and highlighted deficiencies. This course also discusses the role of the Anesthesia Technologists pertaining to anesthesia crisis management.

10. Program Structure and Faculty:



Program Council and Committees:

A. Anesthesia Department Council

- Chairman : Dr. Lafi Alolayan, Dep Chairman, Assistant Professor, Anesthesia Technology, COAMS, KSAU-HS
- Members : Dr. Mohammed Alharbi, Assistant Professor, Anesthesia, COAMS, KSAU-HS
: Dr. Mohammad Alsabaani, Assistant Professor, COAMS, KSAU-HS.
: Mr. Mohammad Ismail, Lecturer, Anesthesia, COAMS, KSAU-HS.
: Ms. Nour Mansour, Lecturer, Anesthesia, COAMS, KSAU-HS.
: Ms. Abeer Samman, Teaching Assistant, Anesthesia, COAMS, KSAU-HS

B. COAMS-R Curriculum Committee Anesthesia Technology Program

- Chairman : Dr. Lafi Alolayan, Dep Chairman, Assistant Professor, ANTS, Riyadh.
- Co- Chairman : Dr. Mohammad Alsabaani, Assistant Professor, ANTS, Riyadh.
- Members : Dr. Mohammed Alharbi, Associate Professor, ANTS, Riyadh.
: Mr. Mohammad Ismail, Lecturer, ANTS, Riyadh.
: Ms. Nour Mansour, Lecturer, ANTS, Riyadh

Administratiorn : Ms. Hend Aljuhaiman

C. Quality & Development Sub-committee Anesthesia Technology Program

- Chairman : Dr. Mohammad Alsabaani, Assistant Professor, ANTS, Riyadh.
- Co- Chairman : Dr. Lafi Alolayan, Dep Chairman, Assistant Professor, ANTS, Riyadh.
- Members : Dr. Mohammed Alharbi, Associate Professor, ANTS, Riyadh.
: Mr. Mohammad Ismail, Lecturer, ANTS, Riyadh.
: Ms. Nour Mansour, Lecturer, ANTS, Riyadh.

Administrator : Ms. Hend Aljuhaiman

D. Research Sub-committee Anesthesia Technology Program

- Chairman : Dr. Abdullah Almayoof, Assistant Professor, COAMS, Riyadh
- Co- Chairman : Dr. Mohammad Alsabaani, Assistant Professor, ANTS, Riyadh.

Members : Dr. Lafi Alolayan, Dep Chairman, Assistant Professor, ANTS, Riyadh.
: Dr. Mohammed Alharbi, Associate Professor, ANTS, Riyadh.
: Mr. Mohammad Ismail, Lecturer, ANTS, Riyadh.
: Ms. Nour Mansour, Lecturer, ANTS, Riyadh.

Administrator : Ms. Hend Aljuhaiman

E. Clinical and Internship Sub-committee Anesthesia Technology Program

Chairman : Dr. Tariq Alotaibi, Assistant Professor, COAMS, Riyadh
Co- Chairman : Dr. Mohammad Alsabaani, Assistant Professor, ANTS, Riyadh.
Members : Dr. Lafi Alolayan, Dep Chairman, Assistant Professor, ANTS, Riyadh.
: Dr. Mohammed Alharbi, Associate Professor, ANTS, Riyadh.
: Mr. Mohammad Ismail, Lecturer, ANTS, Riyadh.
: Ms. Nour Mansour, Lecturer, ANTS, Riyadh.

Administrator : Ms. Hend Aljuhaiman

F. Community Services & Faculty Enhancements. Sub-committee Anesthesia Technology Program

Chairman : Ms. Nour Mansour, Lecturer, ANTS, Riyadh.
Co- Chairman : Mr. Mohammad Ismail, Lecturer, ANTS, Riyadh.
Members : Dr. Lafi Alolayan, Dep Chairman, Assistant Professor, ANTS, Riyadh.
: Dr. Mohammad Alsabaani, Assistant Professor, ANTS, Riyadh.
: Dr. Mohammed Alharbi, Associate Professor, ANTS, Riyadh.

Administrator : Ms. Hend Aljuhaiman

G. Assessment Sub-Committee

Chairman : Mr. Mohammad Ismail, Lecturer, ANTS, Riyadh.
Co- Chairman : Dr. Lafi Alolayan, Dep Chairman, Assistant Professor, ANTS, Riyadh.
Members : Dr. Mohammad Alsabaani, Assistant Professor, ANTS, Riyadh.
: Dr. Mohammed Alharbi, Associate Professor, ANTS, Riyadh.
: Ms. Nour Mansour, Lecturer, ANTS, Riyadh.

Administrator : Ms. Hend Aljuhaiman

11. Learning Resources, Facilities and Equipment:

<p>1. Learning Resources (textbooks, references and other resource materials, including electronic and web-based resources etc.)</p> <ul style="list-style-type: none">The campus libraries provide physical and online resources that include over 60 databases, 5000 books and 6200 e-journals access.
<p>2. Facilities and Equipment (Library, laboratories, medical facilities, classrooms, etc.)</p> <ul style="list-style-type: none">The College classrooms are equipped with smart boards, computers, microphones, and fast internet.The College library is well-established with all needed textbooks, e-journals and data bases.Students will have access to King Abdulaziz Cardiac Center – Riyadh and King Faisal Cardiac Center – Jeddah.
<p>3. Arrangements to Maintain a Healthy and Safe Environment (According to the nature of the program)</p> <p>Students will be allocated in the operating room under the supervision of anesthesia care team, Following policy and procedure in the hospital.</p> <p>In the university following the university bylaw.</p> <ul style="list-style-type: none">Safety is a core value at KSAU-HS which is committed to continued advancement of an institutional safety culture with strong programs of personal safety, accident and injury prevention, wellness promotion, and compliance with applicable environmental and health and safety laws and regulations.Adherence to good health and safety practices and compliance with applicable health and safety regulations are the responsibility of all faculty members, staff, and students. Line responsibility for good health and safety practice begins with the supervisors in the workplace, laboratory or classroom and proceeds upward through the levels of management.KSAU-HS reviews legislation, recommends policies, and monitors compliance with environmental and health and safety laws and regulations.KSAU-HS provides guidance and technical assistance to supervisors and managers in the Departments, and other work units in identifying, evaluating, and correcting health and safety hazards.KSAU-HS provides fire prevention, inspection, engineering and systems maintenance services, and hazardous waste management and disposal services. <p>Faculty, Staff and students are responsible for keeping themselves informed of conditions affecting their health and safety, participating in safety training programs as required by KSAU-HS policy and their supervisors and instructors, and adhering to health and safety practices in their workplace, classroom, laboratory and student campus residences.</p>

12. Grading System and Grading Point Average (GPA):

Course grading system: It is the scale by which the final mark of each course is classified into a grade interval.

Course final mark: It is the total of all semester work marks such as midterms, projects, and assignments, practical and/ or class participation plus the mark of the final examination.

Semester GPA: It is the GPA calculated for the credit hours completed in one semester.

Cumulative GPA: It is the GPA calculated for the credit hours completed in all the semesters.

Grade Weight: It is a numeric worth assigned for grades that are included in the GPA calculations. Every course that is officially registered for students must be given a grade by the instructor of the specific course according to the applied grading system.

13. Laboratory Safety Guideline:

The Safety department published the safety guide for KSAU_HS Laboratories: A Guide to Some Hazardous Substances to help staff and students identify hazardous substances that may be used in KSAU_HS laboratories and provide an inventory of these substances.

Because the new global harmonized system, the safety guide has been updated and revised to reflect those changes. This guide on safety in the chemistry laboratory was also written to provide staff and students with an easy-to-read reference to create a safe learning environment in the laboratory. The document attempts to provide lab responsible and ultimately their students, with information so that they can take the appropriate precautionary actions in order to prevent or minimize hazards, harmful exposures, and injuries in the laboratory.

The guide presents information about ordering, using, storing, and maintaining chemicals in the laboratory. The guide also provides information about chemical waste, safety and emergency equipment, assessing chemical hazards, common safety symbols and signs, and fundamental resources relating to chemical safety, such as Safety Data Sheets and Chemical Hygiene Plans, to help create a safe environment for learning. In addition, checklists are provided for both staff and students that highlight important information for working in the laboratory and identify hazards and safe work procedures. The guide also presents the bio hazard, radiation, and laser safety in the KSAU_HS Laboratories.

Web link for special safety procedures under COVID-19 situation are provided (page 65).

This guide is not intended to address most of the safety issues, but rather to provide basic information about important components of safety in the chemistry laboratory and to serve as a resource to locate further information. This manual is available online and also in the lab to all laboratory users. Links for more details about policies and procedures are provided below.

