

Curriculum

COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE
General Education Requirements: 18 Credit Hours					
ENG 200	English II	ISL 100	Islamic Culture	STT100	General Statistics
FWS 205	UAE and GCC Society	FWS 305	Technical Communication for the Workplace	FWS 310	Fundamentals of Innovation and Entrepreneurship
College Requirements: 20 Credit Hours					
BIO205	General Biology I	CHE207	Organic Chemistry	CHE205	General Chemistry I
BIO205L	General Biology Laboratory I	HSC101	Medical Terminology	CHE201L	General Chemistry Laboratory I
HSC205	Biostatistics	HSC410	Healthcare Research Methodology		
Major Requirements: 81 Credit Hours					
BMS131	Introduction to Biochemistry	BMS233	Basic Medical Microbiology	BMS331	Bioinformatics
BMS211	Comprehensive Biochemistry	MLS231	Urinalysis and Body Fluids	MLS333	Clinical Parasitology and Medical Mycology
BMS212	Biotechniques	MLS295	Biomedical Science Placement 1	BMS412	Clinical Laboratory Management and Instrumentation
BMS213	Molecular Genetics	MLS311	Systematic and Cellular Pathology	BMS411	Immunology and Serology
BME 380	Human Biology I	MLS312	Clinical Biochemistry II	MLS411	Medical Microbiology II
BMS231	Clinical Biochemistry I	BMS311	General Pharmacology	MLS412	Hematology II and Coagulation
BMS232	Metabolic Diseases	MLS313	Medical Virology	MLS495	Biomedical Science Placement 2
BME 381	Human Biology II	MLS332	Histopathology	MLS499	Biomedical Science Research Report
MLS331	Hematology I				
Open Elective Courses: 12 Credit Hours					
E1	Elective 1	E2	Elective 2	E3	Elective 3
E4	Elective4				



BACHELOR OF SCIENCE IN MEDICAL LABORATORY SCIENCES

Program Overview

The cutting-edge four-year Biomedical Sciences accredited Laboratory Medicine program in the UAE, the Bachelor Program in Biomedical Sciences - Laboratory Medicine (BMS), offered in Abu Dhabi Campus, is a multidisciplinary hub for powerhouse innovation that integrates the fields of research, medicine, and biology.

With research, education and exemplary service, our mission is to advance laboratory science and improve laboratory diagnostics by sharing our experience in the UAE and abroad. Students will be prepared to play a role in Laboratory Medicine field to sustain and appreciate a healthy working environment that provides opportunities for cooperation, success, and professional development on a regular basis.

You will gain practical experience to prepare you for a profession in this in-demand field. We offer excellent internship opportunities through affiliations with medical centers and other regional hospitals and diagnostic facilities. We incentivize and promote the continuous advancement of all students and assure hands-on training about new technologies and up-to-date knowledge in biomedical sciences.

Graduates of the program will acquire the following knowledge and skills

They will perform analysis of complex chemical components of the human body fluids, assessment of cellular blood components, identification of microorganisms and their resistance to antibiotics, preparation of blood components for patient therapy, molecular and cellular detection of diseases, and evaluation of new methods, procedures and equipments used in the laboratory.

The accuracy of the findings ranging from procedures to the appropriate use of equipments is constantly checked by laboratory medicine experts and any issues that contribute to abnormalities are solved.

Graduates will learn and or improve their communication skills in order to work with other members of the healthcare team, to educate and handle individuals under their supervision creating and supporting a healthy working environment.



Alumni's Testimonial

Dana Ossama Chkier - Alumni

My journey at Abu Dhabi University was truly transformative. The Bachelor of Biomedical Sciences program gave me a strong academic foundation and ignited my passion for scientific discovery. The supportive faculty, hands-on learning environment, and access to research opportunities shaped me professionally and personally. Today, as I pursue my master's degree and delve deeper into biomedical research, I carry the confidence, skills, and inspiration that ADU instilled in me. I'm proud to be an ADU graduate and grateful for the lifelong connections and experiences ADU gave me.



Career Prospects

The increase in the ageing population is expected to lead to an even greater need globally to diagnose medical conditions such as cancer or type 3 diabetes through laboratory procedures. In the USA alone, the overall employment of medical laboratory scientists and technicians is projected to grow by 13% from 2016 to 2026, faster than average for all other occupations. The work setting includes hospitals, research labs, educational institutions, and diagnostic facilities. Roles comprise of the following but are not limited to:

- Medical Laboratory Scientist
- Diagnostic Product Developer
- Healthcare Administrator
- Laboratory Technician
- Research Technologist
- Research Scientist
- Pharmaceuticals