



جامعة أبوظبي
Abu Dhabi University

COLLEGE OF HEALTH SCIENCES

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We seek to prepare students to become health professionals making a huge impact on society and are capable of fulfilling the needs of the MENA region and the world.

Dr. Nisreen Alwan
Associate Dean of Academic Affairs

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Dr. Sofyan Maghaydah
Acting Dean,
College of Health Sciences

Message from the Dean

The College of Health Sciences (CoHS) was established in 2019 and aims to exemplify and build on the University's mission to be a leading and innovative academic and research institute in the UAE and the region.

Here in the CoHS, we prepare students to become health professionals capable of fulfilling the healthcare needs of Abu Dhabi, the UAE, GCC countries, and the world.

The College has had a very successful start due to the diligence of our faculty in providing competent and personalized teaching in public health, environmental health and safety, nutrition, and biomedical sciences. They work hard to deliver cutting-edge healthcare research opportunities and career-oriented experiences and proactively engage with and contribute to the communities in which we live and work. We provide state-of-the-art teaching laboratories and successful internships and practicum placements. Our support staff also offers exceptional support and encouragement to our students.

As we expand to meet the healthcare needs of the UAE and beyond, we will introduce additional programs. These include undergraduate programs in Basic Medical Sciences (pre-med) and Health Communication and Informatics, and a post-graduate program in Public Health (MPH).

I invite you to take advantage of the career-defining opportunities offered by the College of Health Sciences. We look forward to welcoming you to our community.



Vision

To become the leading provider of healthcare professionals in the UAE and MENA region and serve as a hub for healthcare research leading to advances in the fields of biomedical sciences, clinical care, and health.

Mission

To produce graduates who are equipped with both the theoretical and practical scientific and technical knowledge to analyze, evaluate, and communicate directly with patients, their families, and fellow healthcare professionals, excel in a career in the field of healthcare, understand societal health issues, and are prepared to lead in the field of medicine and health sciences, supporting the ambitions of the UAE to become a world-class healthcare provider and medical research hub.

Abu Dhabi University's CoHS is committed to creating, disseminating, and applying knowledge in the areas of Public and Environmental Health, Nutrition, and Biomedical Sciences through innovative teaching, research, and community engagement.

At ADU's CoHS, we offer nationally recognized programs in:

- Public Health
- Environmental Health and Safety
- Biomedical Sciences-Laboratory Medicine
- Molecular and Medical Genetics
- Human Nutrition and Dietetics

Our academic programs are in partnership with world renowned academic institutions.

Why Choose College of Health Sciences?

- We are the only College having APHEA accreditation in the undergraduate Public Health program in UAE and the MENA region.
- Programs were developed in partnership with Trinity College Dublin and American University of Beirut.
- Our programs offer interdisciplinary training across key allied health professions.
- Programs have been developed specifically to meet the needs of the expanding healthcare needs in the UAE and MENA region.
- The BSc in Molecular and Medical Genetics, BSc in Public Health, and BSc in Environmental Health and Safety are the only programs of their kind in the UAE.
- The BSc in Human Nutrition and Dietetics is a unique undergraduate academic program in the UAE.
- Additional key healthcare programs will be added in the short-term including BSc in Health Communication and Informatics, BSc in Basic Medical Sciences, and MSc in Public Health.
- Some of the key clinical and industry partners include VPS Group of Hospitals, Cleveland Clinic, Mediclinic, Cure Advanced Diagnostics, Atomena, BEEAH Group, Ittihad Paper Mill, Daman, and SEHA. This is in addition to academic collaboration with the University of Toronto, Canada, University of Dalhousie, Canada, and University of Arizona, USA.

Student Diversity of College of Health Sciences

The College has students from 64 nations across the globe. Over 26% of the undergraduate students are UAE Nationals. The student profile reflects the diversity of the UAE.

Our students come from various countries including Arab countries, Australia, Tanzania, Canada, India, Nigeria, and Pakistan.

Students' Activities

The CoHS has won many competitions in the UAE, such as Think Science, International Conference on Advanced Materials, Green Youth Majilis of Sustainable Campus Initiative, Sharjah Innovation, Eco City World Summit and SILA Connect, Public Health Ambassador Program, Public Health Think Tank Competition, and Sustainability Project Mudeem.

Job Placements and Internships

For the students to get their way to the prestigious companies, the following services are available:

- Career services to seek guidance from professional career advisors
- Career fairs that are attended by local and international companies
- On-campus student employment program

The Internship program increases students' employability which makes it an important part of students' graduation. By undertaking a supervised compulsory training course, students will have the opportunity to put into practice what they have learned in theory. Internship is a supervised, training course which carries credit. Each internship is planned and organized by the Employability and Alumni Relations Office, in conjunction with the respective college, in such a way as to ensure the efficient execution of the program.

Accreditation



ADU is internationally accredited by the Senior College and University Commission of the [Western Association of Schools and Colleges \(WASC\)](#).

[WASC](#) is the highest form of accreditation available in the USA, and accredits such prestigious institutions as Stanford University, California Institute of Technology, The University of California System, and the California State University system.

[Agency for Public Health Education Accreditation \(APHEA\)](#)

[APHEA](#) represents the five leading associations of public health in the European Region and is committed to assuring and improving the quality of educational activities throughout the European Region and the globe. Accreditation is aimed at supporting the continued amelioration of education and training for public health workforces throughout the world by providing an international and transparent quality recognition.

**YOU CAN SAVE
THE WORLD
WE HAVE**



For more information

 **600550003**

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Curriculum

COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE
General Education Requirements: 27 Credit Hours					
ARL 101 (A)	Communication Skills in Arabic I	ENG 200	English II	ISL 100 (A)	Islamic Culture (A)
MTG 100	Math for Life	FWS 205	UAE and GCC Society	STT 100	General Statistics
FWS 100	Academic Skills for Success	FWS 305	Technical Communication for the Work Place	FWS 310	Fundamentals of Innovation and Entrepreneurship
Degree Requirements: 38 Credit Hours					
CHE205	General Chemistry I	CHE 201L	General Chemistry I Lab	BIO 205	General Biology I
BIO 205L	General Biology I Lab	BME 380	Human Biology I	BME 381	Human Biology II
BMS 23110A	Protein Structure & Function	BMS 23110B	Protein Activity & Regulation	BMS 23110C	Enzymology
PBH 405	Chronic and Infectious Diseases	PBH 101	Introduction to Public Health	BMS 302	Professional Practice Skills
BMS 23010B	Gene Expression	BMS 23010C	Molecular Genetic & Molecular Processes		
Major Requirements: 54 Credit Hours					
BMS 34010B	Quantitative Analysis	BMS 34010C	Bioinformatics	BMS 34010A	Biotechniques
BMS 3470A	Basic Medical Microbiology	BMS 3470B	Clinical Biochemistry I	BMS 400	Clinical Laboratory Management
BMS 34110B	Metabolic Diseases I	BMS 44110B	Metabolic Diseases II	BMS 34210A	Immunology I
BMS 44210A	Immunology II	BMS 4470A	Histopathology	BMS 4470B	Haematology I
BMS 34130A	Cancer Biology I	BMS 301	Systematic and Cellular Pathology	BMS 44130A	Cancer Biology II
BMS 401	Clinical Biochemistry II	BMS 402	Haematology II	HSC 205	Biostatistics
Major Research, Placements and Electives: 12 Credit Hours					
BMS 44911	Biomedical Science Research Report	BMS 3401	Biomedical Science Placement I	BMS 4401	Biomedical Science Placement II
HSC 410	Healthcare Research Methodology				



BACHELOR OF SCIENCE IN **BIOMEDICAL SCIENCES:** LABORATORY MEDICINE

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

Viyal Soni - Alumni

As a student that was enrolled in the BSc Biomedical Sciences program, a practical program with a large focus on hands-on experience, adjustments to my learning methods were necessary given the current state of the world. ADU has made an immense effort throughout 2021 to continue our education through distance learning with lecturers and staff optimistically guiding us through this period. At first, I struggled to manage my time. A line between academics and personal time is difficult to find in the comfort of one's home; however, dedication allowed me to develop and hone this skill. Likewise, various positives can be taken away from my experience with distance learning; the most notable being virtual labs. These simulations allowed my colleagues and I to experience scenarios and develop problem-solving skills at a scale that cannot be replicated in dry labs. Overall, throughout 2020 as well as the shift in learning medium, I have grown immeasurably as a student. I look confidently towards 2021 to explore my major in more depth, and hopefully gain hands-on experience with laboratory procedures at ADU.



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:

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

Curriculum

COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE
General Education Requirements: 36 Credit Hours					
ARL101 (A)	Communication Skills in Arabic I	ENG 200	English II	ISL 100 (A)	Islamic Culture (A)
ITD 100	Introduction to Information and Digital Technology	MTT 101	Pre-Calculus	STT 100	General Statistics
FWS 100	Academic Skills for Success	FWS 205	UAE and GCC Society	FWS 211	Fundamentals of Emotional Intelligence
FWS 301	Developing Future Leaders	FWS 305	Technical Communication for the Workplace	FWS 310	Fundamentals of Innovation and Entrepreneurship
College Requirements: 3 Credit Hours					
ASC 301	Research Report Writing				
Major Requirements: 79 Credit Hours					
BIO 205	General Biology I	BIO 205L	General Biology Laboratory I	CHE 205	General Chemistry I
CHE 201L	General Chemistry Laboratory I	CHE 207	Organic Chemistry	PHY 100	The Physics of Everyday Life
EHS 205	Introduction to Environmental Health & Safety	ENS 205	Introduction to Environmental Science	EHS 206	Environmental Health & Safety Management
EHS 210	Environmental Microbiology	HSC 305	Occupational Health & Safety	EHS 305	Sustainability
EHS 310	Food Safety & Management	HSC 315	Global Issues in Environmental Health	HSC 410	Healthcare Research Methodology
EHS 330	Special Topics in Occupational Health & Safety	EHS 320	Waste Management	EHS 399	Internship
EHS 420	Hazardous Materials	EHS 415	Environmental Health Regulation & Compliance	EHS 499	Undergraduate Research
EHS 400	Toxicology	EHS 424	Quality and Control of Water and Air Pollution	EHS 435	Environmental Monitoring and Control
EHS 435L	Environmental Monitoring and Control Lab	EHS 440	Industrial Hygiene	HSC 205	Biostatistics
HSC 210	Epidemiology & Population Health				
Elective Courses: 12 Credit Hours					
ME 1	Major Elective 1	ME 2	Major Elective 2	OE 1	Open Elective 1
OE 2	Open Elective 2				



BACHELOR OF SCIENCE IN ENVIRONMENTAL HEALTH & SAFETY

Program Overview

The Bachelor of Science in Environmental Health and Safety (BSc in EHS) is a cutting-edge multidisciplinary program designed to meet the growing needs of industry and provide students with the skills to ensure occupational environmental protection, health, and safety in the workplace. The program covers major environmental issues including sustainability, renewable energy, water quality and management, pollution monitoring, hazardous materials operations and awareness, risk assessments, waste management, and occupational health and safety.

You will be provided with high-end knowledge in environmental health and safety and internship training that bridges academic knowledge with practical application in the workplace. You will learn how to identify and minimize the effect of different types of hazards that can affect the health and safety of employees. These include those related to ergonomics, thermal, chemical, electrical, mechanical, and radioactivity, as well as hazardous materials and waste. The program covers the fundamental scientific, legal, and technological principles underlying environmental health issues, looking at the circumstances giving rise to health inequalities, analyzing the environmental impact and health risks, and identifying appropriate interventions.

The EHS program is a distinctive program in the UAE at Abu Dhabi University. Our growing industry collaborations with organizations such as Environment Agency-Abu Dhabi (EAD), Occupational Safety and Health Center-Abu Dhabi (OSHAD), Camfil Clean Air Solutions, Abu Dhabi Food Control Authority (ADFCA), Atomena, and BEEAH group enrich the research and learning opportunities.



Alumni's Testimonial

Mohamed Al Hosani - Alumni

"The Environmental Health and Safety program has enabled me to develop my skills and obtain better career opportunities. I graduated in Fall 14/15 and I am currently working as EHS Manager at Abu Dhabi Ports. During my undergraduate degree in the College of Health Sciences, I was able to acquire a high standard of knowledge and information. I also had the opportunity to participate in workshops and conferences where I met people from different industry sectors. All of this was possible due to the continuous support from the professional faculty, who focus on linking the theoretical part of the program with industry."



Career Prospects

Graduates of the EHS program will be qualified to work in a diverse range of public and private organizations across all sectors. These include but are not limited to ADNOC group of companies, OSHAD, EAD, ADFCA, National Drilling Company, Abu Dhabi Ports, Baraka Nuclear Power Plant, Abu Dhabi Waste Management Center-Tadweer, Environmental Protection and Safety Section (EPSS)-Abu Dhabi Municipality, Etihad Airways, Federal Authority for Nuclear Regulation, Abu Dhabi National Chemical Companies (ChemaWEyatt), Abu Dhabi Water and Electricity Authority (ADWEA), and Ministry of Energy and Industry. Roles include but not limited to::

- Environment, Health & Safety Officer
- Environment, Health & Safety Manager
- Occupational Health & Safety Specialist
- Occupational Health & Safety Auditor
- Sanitation Director
- Workplace Safety Assessor
- Food Safety Inspector
- Hazardous Waste Specialist
- Risk Assessment Consultant
- Impact Assessment Expert

Graduates of the program will acquire the following knowledge and skills

- Identify information required to describe and manage the EHS issues at an institutional, regional, and global level.
- Assess the economic and social implications of environmental health and safety issues and their connection with both naturally-occurring environmental conditions and conditions created through human actions.
- Assess the effects of environmental policy on environment, health, and safety.
- Formulate recommendations for EHS standards for a sustainable society.
- Develop action plans for implementation of local and global EHS policies and regulations.
- Write, speak, and use electronic communication tools to communicate with the public and professionals concerning EHS issues.
- Apply critical thinking methods when making decisions and value judgements on EHS issues.
- Exhibit teamwork and leadership skills when working with groups on EHS issues.

Curriculum

COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE
General Education Requirements: 27 Credit Hours					
ARL 101 (A)	Communication Skills in Arabic I (A)	ENG 200	English II	ISL 100 (A)	Islamic Culture (A)
STT 100	General Statistics	FWS 100	Academic Skills for Success	FWS 205	UAE and GCC Society
FWS 211	Fundamentals of Emotional Intelligence	FWS 305	Technical Communication for the Work Place	FWS 310	Fundamentals of Innovation and Entrepreneurship
Degree Requirements: 29 Credit Hours					
BIO 205	General Biology I	BIO 205L	General Biology I Lab	HMG 380	Human Anatomy and Physiology I
HMG 381	Human Anatomy and Physiology II	CHE 205	General Chemistry I	CHE 201L	General Chemistry I Lab
CHE 207	Organic Chemistry	BMS 247	Basic Biochemistry	HSC 205	Biostatistics
PBH 320	Community and Public Health Nutrition	HND 228	Introduction to Counselling Theory and Skills		
Major Requirements: 43 Credit Hours					
HND 221	Principles of Human Nutrition	HND 222	Assessment of Nutritional Status	HND 220A	Foundations of Dietetic Practice A
HND 220B	Foundations of Dietetic Practice B	HND 223	Menu Planning and Evaluation	HND 224	Nutritional Metabolism
HND 339	Nutrition through the Life Cycle	HND 225	Management of Foodservices	HND 226	Food Chemistry
HND 226L	Food Chemistry and Analysis Lab	HND 331	Food Microbiology and Sanitation	HND 333	Food Processing
HND 333L	Food Processing Lab	HND 332	Medical Nutrition Therapy I	HND 332L	Medical Nutrition Therapy I Lab
HND 334	Medical Nutrition Therapy II	HND 334L	Medical Nutrition Therapy II Lab	HND 335	Quantity Foods
HND 436	Sports Nutrition				
Research Study/Seminars and Professional Practice: 31 Credit Hours					
HND 437	Seminar: Current Research in Nutrition	HND 438	Human Nutrition Research Tutorial	HND 321	Seminar in Foodservice Systems
HND 421	Seminar in Clinical Dietetics	HND 340 I	Dietetic Practicum I	HND 440	Dietetic Practicum II
HND 440 III	Dietetic Practicum III	HND 440 IV	Dietetic Practicum IV		



BACHELOR OF SCIENCE IN HUMAN NUTRITION AND DIETETICS

Program Overview

Human Nutrition and Dietetics is the application of the science of food and nutrition to the prevention and treatment of disease and promotion of health. ADU's Bachelor of Science in Human Nutrition and Dietetics degree is accredited by the UAE Commission for Academic Accreditation (CAA) and combines the academic and supervised practice experience to qualify graduates to become licensed dietitians in the UAE. The program equips students with the knowledge and skills needed for entry-level practice as dietitians, both at a national and international level. The four year program has an integrated supervised practice (Practicum) component of at least 1200 hours with affiliated organizations in the UAE, including VPS Healthcare, Cleveland Clinic Abu Dhabi (CCAD), and Mediclinic Al Noor Hospital, as well as regional medical centers.

Graduates of the program will acquire the following knowledge and skills

- Educate and advise patients/clients on how food and healthy eating behaviors can prevent illness and achieve and maintain optimal health.
- Assess patient/client dietary and health needs.
- Develop meal plans for nutrition-related conditions.
- Monitor and evaluate the results of the diet therapy for improvement of medical conditions.
- Educate and work with other healthcare professionals on food and nutrition issues.
- Deliver group nutrition sessions to a variety of populations for health promotion campaigns.
- Conduct research and professional development.
- Participate in media, social media, and public relations to promote and advance the profession.

Student's Testimonial

Huda Khaled Aanee - Current Student

As a Nutrition and Dietetics student at Abu Dhabi University, I am learning about health promotion and nutrition intervention in chronic and cardiovascular diseases. I have learned how to be kinder to my body and how to help others find peace in theirs through healthy, conscious eating and exercise. I chose this major because I want to help fight malnutrition in all of its forms. The courses exposed me to a variety of skills and expanded my knowledge in food science and processing, case analysis, and research, Nutrition Care Process, counseling, and menu planning, all of which helped me to hone my craft. Throughout my studies, I also developed a strong relationship with my professors and colleagues through frequent class discussions and interactions and am grateful for their guidance and mentorship. As part of the inaugural Nutrition and Dietetics cohort at ADU, I look forward to seeing the program grow and develop after my graduation.



Career Prospects

There is a global demand for dietitians and nutritionists to provide care for patients with various medical conditions and advise people on health. Employment opportunities for dietitians and nutritionists are expected to grow 15% from 2016 to 2026, which is a faster growth rate than the average for all other occupations. A degree in Human Nutrition and Dietetics can lead to a career working in a variety of roles within the fields of food, nutrition, and health. The work settings where dietetics can work include hospitals and other healthcare facilities, foodservice companies, community and public health settings, sports nutrition facilities, educational institutions, and research labs. The roles they may have include the following:

- Clinical Dietitian
- Specialized Dietitian: Renal, Diabetic, Pediatric, Oncology
- Sports Dietitian
- Medical Product Representative
- Food Safety Dietitian
- Quality Control Specialist
- Private Practice/Consulting
- Culinary Dietitian
- Health Educator
- Community/Public Health Nutritionist
- Nutrition Educator
- Research Coordinator

Curriculum

COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE
General Education Requirements: 27 Credit Hours					
ARL 101 (A)	Communication Skills in Arabic I	ENG 200	English II	ISL 100 (A)	Islamic Culture (A)
MTG 100	Math for Life	FWS 205	UAE and GCC Society	STT 100	General Statistics
FWS 100	Academic Skills for Success	FWS 305	Technical Communication for the Work Place	FWS 310	Fundamentals of Innovation and Entrepreneurship
Degree Requirements: 44 Credit Hours					
CHE205	General Chemistry I	CHE 201L	General Chemistry I Lab	BIO 205	General Biology I
BIO 205L	General Biology I Lab	HMG 380	Human Anatomy and Physiology I	HMG 381	Human Anatomy and Physiology II
BMS 23110A	Protein Structure & Function	BMS 23110B	Protein Activity & Regulation	BMS 23110C	Enzymology
HSC 210	Epidemiology and Population Health	BMS 302	Professional Practice Skills	PBH 101	Introduction to Public Health
BMS 23010A	Genome Biology	BMS 23010B	Gene Expression	BMS 23010C	Molecular Genetic and Molecular Processes
BMS 34120	Human and Evolutionary Genetics				
Major Requirements: 48 Credit Hours					
BMS 34010B	Quantitative Analysis	BMS 34010C	Bioinformatics	HSC 205	Biostatistics
BMS 34010A	Biotechniques	HMG 399	Epidemiology and Public Health Genetics	BMS 3470B	Clinical Biochemistry I
BMS 34110B	Metabolic Diseases I	HMG 35110B	Principles of Medical Genetics	BMS 34210A	Immunology I
HMG 442	Inherited Immunodeficiencies	BMS 34110A	Neurobiology I	HMG 44110A	Inherited Neurological Disorders
BMS 34130A	Cancer Biology I	HMG 44130A	Inherited Cancer Genetics	HMG 2201	Introduction to Counselling Theory and Skills
HMG 2301	Medical Genetic Counselling				
Major Research, Placements and Electives: 12 Credit Hours					
BMS 44911	Human Genetics Research Report	MMG 3401	Molecular and Medical Genetics Placement I	MMG 4401	Molecular and Medical Genetics Placement II
HSC 410	Healthcare Research Methodology				



BACHELOR OF SCIENCE IN MOLECULAR AND MEDICAL GENETICS

Program Overview

Molecular and Medical Genetics is the field of biology that studies the genetic basis of diseases, with the intention of developing improved diagnostics to prevent or treat genetic disorders. ADU's Bachelor of Science in Molecular and Medical Genetics is a degree, accredited by the UAE Commission for Academic Accreditation (CAA), that combines academic and supervised practice experience to prepare graduates for their future roles as clinical geneticists or research technologists. The program will equip you with the knowledge and technical skills in molecular biology and human genetics needed to succeed in the medical genetics field. The four-year program includes intensive laboratory practical training within the university and two integrated supervised placements with affiliated organizations in the UAE, including VPS Healthcare, Cleveland Clinic Abu Dhabi (CCAD), and regional medical centers.

Graduates of the program will acquire the following knowledge and skills

You will be able to address issues relating to the application of experimental analysis to solving problems in genetics, follow a career involving genomics and clinical genetics, as well as be prepared for advanced study with an MSc in Molecular and Precision Medicine, which will be offered soon at Abu Dhabi University.

Student's Testimonial

Fathima Hasnain Nadeem Hussain - Current Student

It is an honor being a student in the Molecular and Medical Genetics program under the College of Health Sciences, Abu Dhabi University. The entire faculty including the Dean of the College are accessible, supportive, well equipped, patient, and understanding in resolving the key issues and requirements. The serene environment of the University helps me to focus and achieve challenging goals. It has been a right platform to transform myself through gaining knowledge under the expertise of renowned faculty. The courses enable me to widen my horizons in various aspects of genetics. I am looking forward in understanding the human genome better in the following years. This fascinates me as an opener to visualize how a small change in the human genome can make us live longer or age slowly. I would highly recommend this program to the future generations who are passionate in learning more about genetics. The day is not far where a thorough understanding of the human genome will enable us in treating many incurable diseases.



Career Prospects

The BSc in Molecular and Medical Genetics offers you the opportunity to receive training in a discipline growing in demand in today's society. You will acquire the theoretical and practical skills needed to work in both the public and private sectors and develop yourself professionally in both applied and clinical research in genomics, biomedicine, biotechnology, or pharmaceuticals. You will be equipped to work in universities, hospitals, government departments, research institutes, biotechnology, and the pharmaceutical industry. Roles include:

- Molecular Genetics Technologist
- Molecular Laboratory Technologist
- Clinical Laboratory Technician
- Scientific Laboratory Technician
- Cytogeneticist
- Academic Researcher
- Biotechnologist
- Embryologist
- Pharmacologist
- Immunogeneticist
- Medical Sales Representative
- Physician Assistant
- Health Ministry Officer

Curriculum

COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE	COURSE CODE	COURSE TITLE
University Requirements: 36 Credit Hours					
ARL 101 (A)	Communication Skills in Arabic I (A)	FWS 301	Developing Future Leaders	ENG 200	English II
FWS 305	Technical Communication for the Work Place	ISL 100 (A)	Islamic Culture (A)	MTG100	Math for life
ITD 100	Introduction to Information and Digital Technology	FWS 310	Fundamentals of Innovation and Entrepreneurship	FWS 100	Academic Skills for Success
FWS 211	Fundamentals of Emotional Intelligence	FWS 205	UAE and GCC Society	STT 100	General Statistics
College Requirements: 3 Credit Hours					
ASC 301	Research Report Writing				
Major Requirements: 66 Credit Hours					
BIO 205	General Biology I	BIO 205L	General Biology I Lab	CHE 205	General Chemistry I
CHE 201L	General Chemistry I Lab	EHS 205	Introduction to Environmental Health & Safety	ENS 205	Introduction to Environmental Science
HSC 200	Introduction to Health Management	HSC 201	Determinants of Public Health	HSC 205	Biostatistics
HSC 210	Epidemiology & Population Health	HSC 305	Occupational Health & Safety	HSC 315	Global Issues in Environmental Health
PBH 101	Introduction to Public Health	PBH 110	Introduction to Happiness & Positive Psychology	PBH 300	Health Sociology
PBH 310	Principles of Health Promotion	PBH 320	Community and Public Health Nutrition	PBH 399	Public Health Research Seminar
PBH 400	Internship	PBH 405	Chronic and Infectious Diseases	HSC 410	Healthcare Research Methodology
PBH 420	Practice of Health Promotion	PBH 425	Maternal and Child Health	PBH 499	Undergraduate Research
Open Elective Courses: 15 Credit Hours					
OE 1	Open Elective 1	OE 2	Open Elective 2	OE 3	Open Elective 3
OE 4	Open Elective 4	OE 5	Open Elective 5		



BACHELOR OF SCIENCE IN PUBLIC HEALTH

Program Overview

The UAE has vast public health challenges. This degree will provide teaching and learning situations that will build up student's knowledge of human public health issues and practices that are relevant to the UAE. The program will provide a career-focused training that fits the needs of the UAE and community development. Public health focuses on large-scale health issues, determinants, and solutions. Graduates will deal with complex health issues, such as controlling communicable diseases and improving healthcare policies. Students can specialize in a range of fields including health policy management, environmental health and health promotion. The BSc in Public Health is designed for students who thrive on making a positive impact on the lives of others. This program is ideal for students with an interest in the connection between the local community and general health issues.

The BSc in Public Health is one of the few programs in the UAE and the region, that offers public health education at the undergraduate level. The program is accredited by the Agency for Public Health Education Accreditation (APHEA), a prestigious European accreditation agency.

Graduates of the program will acquire the following knowledge and skills

- Define the core areas of public health (Epidemiology, Environmental Health, Biostatistics, Health Service Administration/Health Policy Management, and Social & Behavioral Sciences).
- Analyze health-related issues that are common in the community of the UAE and global public health.
- Define public health problems and public health assets across the ecological model and understand ethical practice and research.
- Define and explain the public health functions of promotion, protection, and assurance and their role in protecting the health of the public.
- Explain recommended solutions for defined problems using knowledge of the broad and interconnecting causes of the UAE's health problems.
- Effectively communicate (orally and in writing) health-related issues and activities to professional and lay audience and explain the cultural sensitivity in public health practices.
- Compare strategies for implementing and evaluating health programs, therefore, improving the health status in communities in the UAE.
- Compare private and public health sectors that support public health within the UAE.
- Demonstrate leadership skills while supporting public health problem-solving.

Alumni's Testimonial

Asma Parvez - Alumni

"I was attracted to enroll in the Public Health program at Abu Dhabi University since it is one of its kind to be offered as a Bachelor of Science in the UAE. Throughout the course of my degree, I have gained an immense amount of knowledge, both theoretical and practical from professors who are experts in their field. The curriculum of Public Health is very exciting; I have learned so much about the different aspects of public health and I'm confident that it will help me further enrich my career goals and aspirations."



Career Prospects

Graduates of the Public Health program will be qualified to work in a diverse range of public and private organizations across the health sector including but not limited to governmental health authorities, hospitals, insurance companies, and public health research centers.

- Public Health Educator
- Health Promotion Specialist
- Epidemiologist
- Biostatistician
- Community Health Worker
- Health Policy Analyst
- Health Program Coordinator
- Global Health Specialist
- Health Data Analyst
- Academic Career
- Healthcare Research Career
- Others