

DOCTOR OF MEDICINE

College of Medicine and Health Sciences

1. Programme Overview

The Doctor of Medicine (MD) programme at the Arabian Gulf University is a rigorous, comprehensive six-year curriculum designed to graduate highly competent, empathetic medical professionals equipped for contemporary clinical practice and research. Combining foundational basic sciences with early clinical exposure, the integrated, community-oriented curriculum progresses from fundamental biological concepts to complex organ-system units and intensive clinical clerkships. Graduates emerge with the critical thinking, ethical grounding, and practical skills necessary to address the evolving health care needs of the Gulf Cooperation Council (GCC) region and beyond.

2. Study Plan

Course Code	Course Title	Credit Hours
Phase I:		
First Year: Semester 1		
BIOL111	General Biology	4
ENGL111	English-I	2
BESC111	Behavioural Sciences	3
PHYS111	Medical Physics	3
ENGL112	Medical Terminology	2
MEDU111	Study Skills	2
Total Credit Hours		16
Phase I:		
First Year: Semester 2		
BIOL112	Human Biology	4
CHEM111	Biochemistry	3
ENGL113	English-II	2
STAT111	Biostatistics	3
ISLM111	Islamic Medical Ethics	2
COMP111	Computer Skills	1



Course Code	Course Title	Credit Hours
Total Credit Hours		15
Phase II: Year Two		
Unit I	Man & His Environment	14
UNIT II	Respiratory System	9
UNIT III	Cardiovascular System	11
Total Credit Hours		34
Phase II Year Three		
Unit IV	Metabolism, Endocrine & Reproductive	13
Unit V	Gastrointestinal & Renal System	11
Unit VI	Hematopoietic & Immune System	10
Total Credit Hours		34
Phase II Year Four		
Unit VII	Integumentary & Musculo-Skeletal	10
Unit VIII	Nervous System & Human Behaviour	14
Unit IX	Multi-System Integration	12
Total Credit Hours		36
Phase III Year 5		
MED005	Internal Medicine	20
GYN002	Obstetrics/Gynaecology	12
PED001	Paediatrics	12
	Elective	6
Total Credit Hours		50
Phase III Year 6		

Course Code	Course Title	Credit Hours
SUR006	Surgery	19
FMD005	Family Medicine	9
PSY008	Psychiatry	4
OPT007	Ophthalmology	2
ENT006	ENT	2
Total Credit Hours		36
Total Programme Credit Hours		221

3. Course Descriptions

Phase I: Pre-Medical Foundation (Year 1)

BIOL111 — General Biology (4 CH):

Introduces fundamental biological principles including cellular structure and function, genetics, molecular biology, and evolution, establishing a baseline scientific vocabulary for medical studies.

ENGL111 — English-I (2 CH):

Develops academic reading, writing, and speaking skills required for the medical sciences, focusing on critical reading of scientific texts and technical essay writing.

BESC111 — Behavioural Sciences (3 CH):

Explores the psychological, social, and cultural determinants of human behaviour, interpersonal relationships, and how these factors impact patient health and illness concepts.

PHYS111 — Medical Physics (3 CH):

Examines physical principles as they apply to the human body and diagnostic technologies, covering fluid mechanics, thermodynamics, acoustics, optics, and radiation physics in medicine.

ENGL112 — Medical Terminology (2 CH):

Builds a comprehensive framework for understanding the language of medicine, focusing on Latin and Greek roots, prefixes, suffixes, and standard clinical abbreviations.

MEDU111 — Study Skills (2 CH):

Equips entering medical students with essential strategies for lifelong learning, time management, information literacy, and the problem-based learning methodologies utilized throughout the curriculum.

BIOL112 — Human Biology (4 CH):

Provides an overview of human anatomy and physiology, detailing tissue types, basic organ systems, and the homeostatic mechanisms that maintain body functions.

CHEM111 — Biochemistry (3 CH):

Covers the chemical structure and biological functions of proteins, carbohydrates, lipids, and nucleic acids, alongside metabolic pathways, and molecular bioenergetics.

ENGL113 — English-II (2 CH):

Enhances advanced academic writing and communication strategies, preparing students for presentation delivery, scientific reporting, and research syntax.

STAT111 — Biostatistics (3 CH):

Introduces descriptive and inferential statistics applied to health data, equipping students to interpret clinical literature, evaluate data distributions, and execute basic hypothesis testing.

ISLM111 — Islamic Medical Ethics (2 CH):

Analyzes contemporary medical issues, patient rights, and clinical responsibilities through the lens of Islamic jurisprudence, professional codes of conduct, and regional bioethical standards.

COMP111 — Computer Skills (1 CH):

Focuses on digital literacy in healthcare, navigating medical informatics databases, electronic health records, and software utilities for data management.

Phase II: Integrated Organ Systems (Years 2–4)

Unit I — Man & His Environment (14 CH):

Serves as the bridge to organ-system modules by introducing basic pathology, pharmacology, microbiology, immunology, and public health principles within a community context.

Unit II — Respiratory System (9 CH):

An integrated study of the anatomy, physiology, histology, and pathology of the respiratory tract, alongside the pharmacology of respiratory therapies and management of pulmonary disorders.

Unit III — Cardiovascular System (11 CH):

Focuses on the heart, blood vessels, and circulatory hemodynamics, integrating normal structure and function with common cardiovascular pathological conditions, imaging, and therapeutics.

Unit IV — Metabolism, Endocrine & Reproductive (13 CH):

Explores the endocrine system, hormonal regulation, homeostatic metabolism, and the human reproductive tract, linking molecular mechanisms to systemic clinical manifestations.

Unit V — Gastrointestinal & Renal System (11 CH):

Details the structure, physiology, and biochemistry of digestion, absorption, hepatobiliary functions, and fluid-electrolyte balance managed by the renal system, alongside associated diseases.

Unit VI — Hematopoietic & Immune System (10 CH):

Examines blood cell development, hemostasis, lymphatics, and host defense mechanisms, incorporating clinical hematology, immunopathology, and infectious disease responses.

Unit VII — Integumentary & Musculo-Skeletal (10 CH):

Combines the anatomy, physiology, and pathology of the skin, bone, joints, and skeletal muscles, addressing locomotor biomechanics and dermatological conditions.

Unit VIII — Nervous System & Human Behaviour (14 CH):

An intensive, integrated study of neuroanatomy, neurophysiology, clinical neurology, neuropharmacology, and the biological foundations of normal and abnormal psychiatric behavior.

Unit IX — Multi-System Integration (12 CH):

Synthesizes cross-system pathologies, multi-organ failure, complex emergencies, and foundational clinical reasoning to prepare students for the transition into intensive hospital-based clerkships.

Phase III: Clinical Clerkships (Years 5–6)

MED005 — Internal Medicine (20 CH):

A comprehensive clerkship focusing on the diagnosis, management, and long-term care of adult acute and chronic illnesses across inpatient and outpatient clinical settings.

GYN002 — Obstetrics/Gynaecology (12 CH):

Delivers clinical training in women's reproductive health, encompassing prenatal care, labor and delivery, postpartum management, gynecological oncology, and preventive screen protocols.

PED001 — Paediatrics (12 CH):

Focuses on child growth, development, and the presentation, diagnosis, and therapeutic management of congenital and acquired childhood illnesses from neonatality through adolescence.

Elective (6 CH):

Provides students the autonomy to explore specific subspecialties, research tracks, or international healthcare systems to align with their career trajectories and residency planning.

SUR006 — Surgery (19 CH):

Provides hands-on exposure to general and specialized surgical care, preoperative risk assessment, operative procedures, sterile techniques, and comprehensive post-operative management.

FMD005 — Family Medicine (9 CH):

Emphasizes comprehensive, continuous, and preventative primary care within a community-medicine model, exploring family dynamics, chronic disease tracking, and preventative public health.

PSY008 — Psychiatry (4 CH):

Immerses students in clinical mental health services, covering psychiatric evaluations, therapeutic modalities, psychopharmacology, and emergency mental health interventions.

OPT007 — Ophthalmology (2 CH):

Covers the essentials of eye care, visual pathway anatomy, primary diagnostic screening, acute ocular emergencies, and systemic diseases affecting vision.

ENT006 — ENT (2 CH):

Concentrates on clinical skills and pathology related to the Ear, Nose, and Throat (Otolaryngology), preparing students to handle regional infections, structural issues, and emergencies.