

Courses Description

College: Medicine

Department: Anatomy And Histology

Course ID: 1501101 **Description:** General Anatomy

Full Course Description:

Course ID: 1501102 **Description:** Histology and Molecular Biology

Full Course Description:

College: Medicine

Department: Combined

Course ID: 1500200 **Description:** cvc

Full Course Description: xc

Course ID: 1500201 **Description:** The Respiratory System

Full Course Description:

Course ID: 1500202 **Description:** The Cardiovascular System

Full Course Description:

Course ID: 1500203 **Description:** Hematopoetic System

Full Course Description:

Course ID: 1500301 **Description:** The Endocrinology System

Full Course Description:

Course ID: 1500302 **Description:** The Digestive System

Full Course Description:

Course ID: 1500303 **Description:** Skin and Locomotors System

Full Course Description:

Course ID: 1500304 **Description:** The Genitourinary System

Full Course Description:

Course ID: 1500305 **Description:** Neurosciences(1)

Full Course Description:

Course ID: 1500306 **Description:** Neurosciences(2)

Full Course Description:

Course ID: 1500307 **Description:** Introduction to Clinical Medicine and Medical Ethics

Full Course Description:

Course ID: 1500504 **Description:** Emergency Medicine(1)

Full Course Description:

Course ID: 1500602 **Description:** Emergency Medicine(2)

Full Course Description:

Course ID: 1500605 **Description:** Special Topics

Full Course Description:

Course ID: 2500504 **Description:** ff

Full Course Description: df

Course ID: 61500605 **Description:** Elective Clinical Training

Full Course Description: h

Courses Description

College: Medicine

Department: Combined

Course ID: 61500606 **Description:** Elective Clinical Training (1)

Full Course Description: gg

Course ID: 61500607 **Description:** Elective Clinical Training (2)

Full Course Description: g

Course ID: 111500401 **Description:** Emergency Medicine and Anesthesia

Full Course Description:

Course ID: 111500404 **Description:** Emergency Medicine and Anesthesia

Full Course Description: 2

Course ID: 111500405 **Description:** ll

Full Course Description: gdfg

Course ID: 111500412 **Description:** ب

Full Course Description: ي

Course ID: 111500601 **Description:** Emergency Medicine

Full Course Description:

Course ID: 111500602 **Description:** Research Project

Full Course Description:

Course ID: 111500603 **Description:** Special Topics

Full Course Description:

College: Medicine

Department: Family And Community Medicine

Course ID: 1505101 **Description:** Introduction to Community Medicine

Full Course Description:

Course ID: 1505201 **Description:** Epidemiology and Biostatics

Full Course Description:

Course ID: 1505202 **Description:** Occupational & Environmental Health and Field Project

Full Course Description:

Course ID: 1505302 **Description:** Clinical Psychology

Full Course Description:

Course ID: 1505501 **Description:** Family Medicine

Full Course Description:

Course ID: 1505601 **Description:** Community Medicine

Full Course Description:

Course ID: 1505602 **Description:** Research Project

Full Course Description:

Course ID: 1505605 **Description:** Family Medicine and Primary Health Care

Full Course Description:

College: Medicine

Courses Description

College: Medicine

Department: General Surgary And Anesthesia

Course ID: 1506401 **Description:** General Surgery and Anesthesia(1)

Full Course Description:

Course ID: 1506601 **Description:** General Surgery(2)

Full Course Description:

Course ID: 1506602 **Description:** General Surgery(3)

Full Course Description:

Course ID: 1506603 **Description:** Anesthesia

Full Course Description:

Course ID: 111506401 **Description:** General Surgery (1) and Neurosurgery

Full Course Description: z

College: Medicine

Department: Internal Medicine

Course ID: 1507401 **Description:** General Internal Medicine(1)

Full Course Description:

Course ID: 1507501 **Description:** Diagnostic Radiology (1)

Full Course Description:

Course ID: 1507502 **Description:** Psychiatry (1)

Full Course Description:

Course ID: 1507503 **Description:** Neurology

Full Course Description:

Course ID: 1507504 **Description:** Dermatology (1)

Full Course Description:

Course ID: 1507601 **Description:** General Internal Medicine(2)

Full Course Description:

Course ID: 1507602 **Description:** Psychiatry(2)

Full Course Description:

Course ID: 1507603 **Description:** Dermatology (2)

Full Course Description:

Course ID: 1507604 **Description:** Diagnostic Raidology (2)

Full Course Description:

Course ID: 1507605 **Description:** General Internal Medicine(3)

Full Course Description:

College: Medicine

Department: Obstetrics And Gynecology

Course ID: 1509401 **Description:** Obstetrics and Gynecology(1)

Full Course Description:

Courses Description

College: Medicine

Department: Obstetrics And Gynecology

Course ID: 1509601 **Description:** Obstetrics and Gynecology(2)

Full Course Description:

Course ID: 1509602 **Description:** Obstetrics and Gynecology (3)

Full Course Description:

College: Medicine

Department: Pathology, Microbiology And Forensic Medicine

Course ID: 1503201 **Description:** Principles of Genetics and Molecular Biology

Full Course Description:

Course ID: 1503202 **Description:** General Pathology

Full Course Description:

Course ID: 1503203 **Description:** General Microbiology

Full Course Description:

Course ID: 1503204 **Description:** Immunology

Full Course Description:

Course ID: 1503503 **Description:** Forensic Medicine and Toxicology(1)

Full Course Description:

Course ID: 1503601 **Description:** Forensic Medicine and Toxicology(2)

Full Course Description:

Course ID: 1503602 **Description:** Pathology

Full Course Description:

College: Medicine

Department: Pediatrics

Course ID: 1508401 **Description:** Pediatrics (1)

Full Course Description:

Course ID: 1508601 **Description:** Pediatrics (2)

Full Course Description:

Course ID: 1508602 **Description:** Pediatrics (3)

Full Course Description:

Course ID: 2508401 **Description:** hfg

Full Course Description: jkuik

Course ID: 2508601 **Description:** ggg

Full Course Description: ggg

Course ID: 3508401 **Description:** rrrr

Full Course Description: .l;klkopiopi

College: Medicine

Department: Pharmacology

Courses Description

College: Medicine

Department: Pharmacology

Course ID: 1504201 **Description:** General Pharmacology

Full Course Description:

College: Medicine

Department: Physiology And Biochemistry

Course ID: 1502101 **Description:** General Biochemistry

Full Course Description: After presenting some preliminary principles of biochemistry in previous course of molecular biology, this course will introduce medical students to more advance knowledge on biochemistry. At the beginning there is more emphasis on understanding enzymes as efficient biological protein catalyst, in addition to the factors which affect their activation and inhibition. Then students will learn about coenzymes as well as some bioenergetics before they are introduced to the metabolism of human body. This part will cover the anaerobic and aerobic metabolism of carbohydrates, amino acids and protein metabolism, lipid metabolism and finally their integration which involves the coordination between these metabolic pathways under different nutritional states.

Course ID: 1502102 **Description:** General Physiology

Full Course Description:

College: Medicine

Department: Special Surgery

Course ID: 1510501 **Description:** Neurosurgery

Full Course Description:

Course ID: 1510502 **Description:** Urology(1)

Full Course Description:

Course ID: 1510503 **Description:** Orthopedics and Trauma

Full Course Description:

Course ID: 1510505 **Description:** Otolarngology(1)

Full Course Description:

Course ID: 1510506 **Description:** Ophthalmology(1)

Full Course Description:

Course ID: 1510601 **Description:** Orthopedics

Full Course Description:

Course ID: 1510602 **Description:** Otolarngology(2)

Full Course Description:

Course ID: 1510604 **Description:** Ophthalmology(2)

Full Course Description:

Course ID: 1510605 **Description:** Urology(2)

Full Course Description:

Courses Description

College: Medicine

Department: Special Surgery

Course ID: 111510402 **Description:** Urology (1)

Full Course Description: 2

College: Medicine

Department:

Course ID: 111501207 **Description:** Hematopoetic System

Full Course Description:

Course ID: 111501304 **Description:** The Genitourinary System

Full Course Description:

Course ID: 111501401 **Description:** Community Medicine (1)

Full Course Description:

Course ID: 111501501 **Description:** Forensic Medicine and Toxicology (1)

Full Course Description:

Course ID: 111501601 **Description:** Community Medicine (2)

Full Course Description:

Course ID: 111501602 **Description:** Forensic Medicine and Toxicology (2)

Full Course Description:

Course ID: 111501603 **Description:** General Pathology (2)

Full Course Description:

Course ID: 161501662 **Description:** Graduation Thesis Project

Full Course Description:

Course ID: 111502401 **Description:** General Surgery (1)

Full Course Description:

Course ID: 111502403 **Description:** Urology(1)

Full Course Description:

Course ID: 111502404 **Description:** 22

Full Course Description: tert

Course ID: 111502602 **Description:** General Surgery (3)

Full Course Description:

Course ID: 111502603 **Description:** Urology (2)

Full Course Description:

Course ID: 111502604 **Description:** Anesthesia

Full Course Description:

Course ID: 111502605 **Description:** Orthopedics (2)

Full Course Description:

Course ID: 111502606 **Description:** Otolaryngology (2)

Full Course Description:

Course ID: 111502607 **Description:** Ophthalmology (2)

Full Course Description:

Courses Description

College: Medicine

Department:

Course ID: 111503401 **Description:** General Internal Medicine (1)

Full Course Description:

Course ID: 111503402 **Description:** Radiology (1)

Full Course Description:

Course ID: 111503403 **Description:** Neurology

Full Course Description:

Course ID: 111503501 **Description:** Psychiatry (1)

Full Course Description: By the end of this 4-week-duration course, students are expected to:

1. be able to perform psychiatric assessment
2. know the principles of psychiatric diagnosis
3. recognize the key signs and symptoms in psychiatry
4. be able to make tentative diagnoses of the most common psychiatric disorders
5. understand the treatment armamentarium of the most common psychiatric disorder

Course ID: 111503502 **Description:** Family Medicine

Full Course Description:

Course ID: 111503503 **Description:** Dermatology (1)

Full Course Description: Dermatology rotation is given to fifth- year medical students during a two-week interval training course. The students will be exposed to the fundamentals of Dermatological history taking, dermatological examination and how to reach the appropriate differential diagnosis and management of common skin diseases.

Course ID: 111503601 **Description:** General Internal Medicine(2)

Full Course Description: This eight-week internal medicine rotation is aimed at providing sixth-year medical students with the basic clinical medical experience that will build a base in clinical problem solving and decision-making. During this course, students rotate with different medical teams in hospitals affiliated to the medical school in the university, this represents the majority of teaching and work where students sharpen their clinicals skills. In addition, students will have a didactic program to cover core internal topics, with focus on disease management, particularly medical emergencies.

Course ID: 111503602 **Description:** General Internal Medicine(3)

Full Course Description:

Course ID: 111503603 **Description:** Psychiatry(2)

Full Course Description:

Course ID: 111503604 **Description:** Dermatology (2)

Full Course Description:

Course ID: 111503605 **Description:** Diagnostic Radiology (2)

Full Course Description:

Course ID: 111503606 **Description:** Family Medicine and Primary Health

Full Course Description:

Course ID: 161503401 **Description:** General Internal Medicine (1)

Full Course Description: This clinical rotation in general medicine is offered to fourth year medical students. It will extend over a period of 8 weeks of blended learning. It includes: Hospital Bedside Teaching: the 8 weeks subdivided into five sub-rotations in four different hospitals

Courses Description

College: Medicine

Department:

Course ID: 161503402 **Description:** Radiology (1)

Full Course Description: This clinical rotation in radiology is offered to fourth year medical students. It will extend over a period of 2 weeks of blended learning . The goal of this course is to present a basic introduction of the common radiological exams procedures and techniques as well as familiarize medical students with indications and contraindications of different radiological exams. The course also emphasizes basic radiological anatomy and train medical students to identify and diagnosis common and emergency pathological conditions using different radiological modalities.

Course ID: 161503403 **Description:** Neurology

Full Course Description: This 4 week course is given as part of the clinical rotations for 4th year medical students. It will extend over a period of 4 weeks of blended learning (20% online education and 80% face-to-face education) emphasizing the fundamentals of the neurological history taking, neurological examination, pathophysiology and management of common and emergency neurological disorders. Topics of main focus include stroke, demyelinating disorders, epilepsy, movement disorders, headache and neuromuscular diseases. The rotation will include bedside teaching sessions as well as formal lectures. Outpatient and neurophysiological laboratory exposure may be incorporated if felt necessary, too.

Course ID: 161503404 **Description:** Family Medicine

Full Course Description: A two-week rotation in family medicine clinics at North Hashemi and Jubaiha Comprehensive Medical Centers. Students attend clinics of family medicine, maternity and childhood clinics. They encounter patients in these clinics and discuss the cases with the instructors. During seminars students are exposed to case discussion, problem-based learning in addition to discussing the main topics in family medicine .

Course ID: 161503501 **Description:** Psychiatry (1)

Full Course Description: تأهیل

Course ID: 2215031400 **Description:** Internal Medicine for Dental Students

Full Course Description:

Course ID: 111504501 **Description:** Pediatrics (1)

Full Course Description: This course is the introduction to pediatrics in the Masters degree in Faculty of Medicine in Hashemite University □
The students will be trained on basics of pediatrics and how to approach to pediatrics care

Course ID: 111504601 **Description:** Pediatrics (2)

Full Course Description: this course will is a continuation of the previous pediatrics course in the fifth year. in this course the student will be more confident in diagnosis and applying emergency care of pediatric patients

Course ID: 111504602 **Description:** Pediatrics (3)

Full Course Description:

Course ID: 111505501 **Description:** Obstetrics and Gynecology (1)

Full Course Description: This course offers a general obstetrics-gynaecology experience over eight weeks. Rotating within six hospitals, the students will be exposed to a variety of cases including antenatal, postnatal patients, Obstetric and gynaecological assessment, pre-operative patients in a clinic setting. □

Courses Description

College: Medicine

Department:

Couse ID: 111505601 **Description:** Obstetrics and Gynecology (2)

Full Course Description: This course offers a general obstetrics-gynaecology experience over eight weeks. Rotating within six hospitals, the students will be exposed to a variety of cases including antenatal, postnatal patients, obstetric and gynaecological assessment, pre-operative patients in a clinic setting. Hospital rounds, assisting in patient deliveries, including operative deliveries (Instrumental and C/Sections) and Gyn Surgery, are expected.

Couse ID: 111505602 **Description:** Obstetrics and Gynecology (3)

Full Course Description: This course offers a general obstetrics-gynaecology experience over eight weeks. Rotating within six hospitals, the students will be exposed to a variety of cases including antenatal, postnatal patients, obstetric and gynaecological assessment, pre-operative patients in a clinic setting. Hospital rounds, assisting in patient deliveries, including operative deliveries (Instrumental and C/Sections) and Gyn Surgery, are expected.

Couse ID: 111502601 **Description:** General Surgery (2)

Full Course Description: This eight-week surgical rotation is an intense clinical experience that introduces students to the basic principles of surgery and related diseases. Students rotate with surgical teams at various hospitals that are affiliated to the medical school of the university. The rotation includes: six weeks of general surgery and two weeks of surgical subspecialties. The rotation consists of four blocks. Each block is two weeks long. During the rotations, students are encouraged to function as members of surgical teams to reinforce their knowledge and experience in pre-, peri-, and post-operative evaluation and management of surgical diseases. Daily rounds and faculty interactions give students the opportunity to discuss patient problems in detail. Faculty members provide students with regular feedback, advice, and direction. Time is spent in surgical wards, surgical outpatient clinics, emergency room, and the operating room. The curriculum is defined by its general and specific learning objectives.

Couse ID: 161500401 **Description:** Emergency Medicine and Anesthesia

Full Course Description: z\xczcz

Couse ID: 161502401 **Description:** General Surgery (1)

Full Course Description: \zx\zx

Couse ID: 161502503 **Description:** Urology (1)

Full Course Description: dfgd

Couse ID: 2215021400 **Description:** General Surgery and Emergency for Dental Students

Full Course Description:

Courses Description

College: Medicine

Department:

Course ID: 111502402 **Description:** Neurosurgery

Full Course Description: Neurosurgery is a broad field covering a range of diagnostic and therapeutic interventions that target pathological processes affecting the brain, spine and peripheral nerves. It consists of a comprehensive seminar, bed side teaching, outpatient clinic attendance and operating theatre attendance (if appropriate). In this course we focus on neurosurgical emergencies. Starting from the diagnosis to proper and safe management. Applying basic knowledge learned in basic years on patients in aiming to build up the skills of taking history and doing physical examination to reach the possible diagnosis and plan the proper treatment. □

The course will be delivered through a combination of active learning strategies. These will include: □

PowerPoint lectures and active classroom-based discussion □

Case presentation and bedside teaching □

Collaborative learning through small groups acting in an interdisciplinary context. □

Morning reports and Simulated case discussions □

Video lectures □

E-learning resources: e-reading assignments and practice quizzes through Model and Microsoft Team □

Course ID: 111502501 **Description:** Orthopedics (1)

Full Course Description: The Trauma and Orthopaedic course is taught to 5th year medical students and covers major general topic of Orthopaedics surgery including: Basic anatomy and basic science of bone metabolism, upper limb and lower limb trauma, orthopaedics Pediatric condition, spine disorders, upper limb and lower limb disorders, sport medicine, principles of fractures and complications , Bone infections and Peripheral nerve disorders. □

The course objectives are to: □

1) develop understanding of basic principles of orthopaedics surgery □

2) learn the skills required for history taking and physical examination □

3) build the ability to interpret diagnostic radiology and identify orthopaedics pathologies □

4) communicate competently with others using oral and written English □

Orthopedics is a specialty that plays a major role in the trauma team. Our students get exposed to variety of cases from our aspect, and this will help the general picture during managing trauma patients in a professional and safe fashion. Also, common non-trauma cases are discussed during this 1-month rotation. □

□

Courses Description

College: Medicine

Department:

Course ID: 111502502 **Description:** Otolaryngology (1)

Full Course Description: The course of Ear, Nose, and Throat Diseases, also called Otorhinolaryngology, Head & Neck Surgery (ORL-HNS), deals with wide spectrum of diseases. It is required that the students pass this course at their fifth year during the medical school. □
Different topics are covered during the curriculum. These include the common cases of Rhinology, Otolology, Head and Neck Surgery, and Facial Plastics Surgery. Approach to both emergency and elective cases is discussed. Prepared by the tutors, online learning material is handed over to the students, and they are expected to listen to them beforehand. □
Different ways of theoretical learning include lectures, seminars, and case-based learning. □
Furthermore, the students are required to attend the departmental morning report, where specialists and residents meet, and they discuss the ward cases, and some of the emergency situations that occurred during the preceding night shift. In addition, the students get the chance to take history and do physical examination of outpatient clinics, review different related imaging studies, and actively participate in formulating the management plans. Furthermore, they observe different clinic procedures, such as cautery of bleeding, ear suctioning, flexible naso-pharyngo-laryngoscopy, performing biopsies, hearing assessment tests, and change of tracheostomy tube change among others. □
At the end of the 2-week course, the students set to pre-prepared checklist-based physical exam test, and to OSCE-based theoretical exam. These tests cover thoroughly the basic and clinical skills that the student gained during this course, and a final MCQ-based exam will take place at the end of the academic year. □

Course ID: 111502503 **Description:** Ophthalmology (1)

Full Course Description: We provide the Ophthalmology academic course which is considered as one of the minor courses required in the fifth medical year and it is necessary for the medical students to pass this course. □
It is two weeks course during which the medical students will be exposed to and learn the main objectives of the course which include: □
Taking ophthalmic history in regard to common ophthalmic diseases and serious ones which could threaten the vision or the human life. □
Understand and recognize ophthalmic emergencies and life threatening emergencies presenting to eye casualty. □
To be familiar with the global and local common ophthalmic conditions responsible for chronic vision loss such as cataract, glaucoma, diabetic retinopathy, age related macular degeneration, refractive errors, etc... □

Course ID: 111501104 **Description:** General Anatomy

Full Course Description: This course covers introduction in gross anatomy to all parts of the body (upper limb & lower limb, thorax, abdomen, head & neck, and microanatomy) including terms, regions, muscles, blood vessels, and nerves. It also provide an introduction to the nervous system. This course also covers general embryology including the development of embryo starting from the zygote, the fetal membranes, placenta and congenital malformations.

Course ID: 111501105 **Description:** Histology and Molecular Biology

Full Course Description: This course covers the cell with respect to structure, function and classification, epithelial cells, cell structure of endocrine glands, peripheral blood, connective tissues, bone and cartilage, muscles, nerves, blood vessels, lympho-reticular tissue and skin and appendages.

Course ID: 111501106 **Description:** General Physiology

Full Course Description: This course covers the definition of physiology and the systems involved. It includes the study of basic principles of physiology that involve subjects like, physiological units, biological membranes, transport, homeostasis, body fluids, membrane potentials, hemodynamics and laws of blood flow.

Courses Description

College: Medicine

Department:

Course ID: 111501107 **Description:** General Biochemistry

Full Course Description: This course covers the study of the structure and classification of carbohydrates, lipids, and amino acid, structure and characteristics of proteins, hemoglobin, fibrous proteins, enzymes including their general properties, classification, kinetics, mechanisms of inhibition and regulation. It also covers nucleic acids and nucleotides and gene structure. Furthermore, it covers energy metabolism including cellular bioenergetics, tricarboxylic acid cycle and oxidative phosphorylation. The course also covers carbohydrate and lipid metabolism, nitrogen,amins, acids in addition to nutritions and vitamins.

Course ID: 111501201 **Description:** Principles of Genetics and Molecular Biology

Full Course Description: This course covers the study of chromosomes and heredity, genetic linkage, chemistry of the gene, mitosis and meiosis, gamete formation, mechanisms of transfer of genetic traits, genetic code and its transcription and translation, protein synthesis, mutations, genetic map, sex determination, sex-linked characteristics, human genetic disorders and their diagnosis and management, and genetic engineering.

Course ID: 111501303 **Description:** Skin and Locomotors System

Full Course Description: This course covers the study of the locomotor system and skin including the anatomy and histology of nerves, muscles and skin; the physiology of nerves and muscles, the biochemistry of muscle contraction and neurotransmission. It also covers the diseases of the skin, muscles and nervous tissues including bacterial, viral, parasitic and fungal infections, together with disturbances of metabolism and genetics of the locomotor system and tumors of muscles, bones and joints. The course covers also the therapeutics of such diseases and their clinical aspects including signs and symptoms, and disease presentation.

Course ID: 111501305 **Description:** Neurosciences (1)

Full Course Description: This course is an intensive, multidisciplinary, and integrated course taught to students of the College of Human Medicine in the basic stage. The course consists of 4 credit hours and is designed to provide students with the basic sciences and clinical framework of central nervous system topics. □

The course topics were prepared in a combined and integrated manner, taking into account not to repeat information in the lectures and laboratories of the different specializations in each part of the course, and include anatomy, physiology, pathology, pharmacology, biochemistry, and community medicine.

Course ID: 111501306 **Description:** Neurosciences(2)

Full Course Description: This course covers the study of the peripheral nervous system and special senses from the stand points of anatomy, histology and organization of the peripheral nervous system including nerves their motor and sensory functions in addition to the study of vision, hearing including its chemistry, receptors and neurotransmitters, and chemistry of vision. The course is concluded by covering the clinical aspects of disease that affect the special senses.

Courses Description

College: Medicine

Department:

Course ID: 111501202 **Description:** General Pathology (1)

Full Course Description: General Pathology: this is going to be covered in this course. It deals with disease processes in general & there will be a description of the molecular, morphological, ultrastructural, cellular & tissue reactions to different injurious agents and environmental stress. □

Pathology is the study of the causes and effects of disease or injury. It addresses components of disease: causes, mechanisms of development (pathogenesis), structural alterations of cells (morphologic changes), and the consequences of changes (clinical manifestations). It deals with incorporating a wide range of biology research fields and medical practices, so when used in the context of modern medical treatment, the term is often used in a more narrow fashion to refer to processes and tests which fall within the contemporary medical field of "general pathology," an area which includes a number of distinct but inter-related medical specialties that diagnose disease, mostly through analysis of tissue, cell, and body fluid samples. Pathology may also refer to the predicted or actual progression of particular diseases (as in the statement "the many different forms of cancer have diverse pathologies "in addition to genetic study related to cancer, staging, grading, outcome, survival, and prognosis and the great impact of those values and factors on the modality of treatment and therapy that should be administered to the patient. In common medical practice, general pathology is mostly concerned with analyzing known clinical abnormalities that are markers or precursors for both infectious and non-infectious disease and is conducted by experts in one of two major specialties, anatomical pathology and clinical pathology. In General pathology, we try to focus on the following topics and chapters, and we are concerned with the most important aspect of pathology that should be covered and memorized by our students in second-year medical college.

Course ID: 111501204 **Description:** General Microbiology

Full Course Description: This course is an introductory course intended to introduce undergraduate medical students to a variety of subjects in medical microbiology. The course will provide an introduction to the basic principles and application relevance of clinical disease for students who are in preparation for physicians. The content of this rigorous course covers all biology of bacteria, viruses, fungi, parasites, and other pathogens related with infectious diseases in humans. □

□ The course provides the second-year medical student with the basic knowledge as well as the practical skills in medical microbiology. In addition to the introduction to the basic biology of micro- organisms of medical importance, interaction of these micro-organisms with humans is studied as related to the pathogenesis and management and control of infectious diseases. □

To achieve the maximum benefit of this course and to develop both informatic and diagnostic skills in microbiology, including the practical application and interpretation of laboratory tests for the diagnosis of infectious diseases, hard work and appropriate methods of learning are the keys to that target.

Courses Description

College: Medicine

Department:

Course ID: 111501205 **Description:** The Respiratory System

Full Course Description: The respiratory module is a five-credit hour course with around 51 lectures and 10 practical labs included. This course integrates all basic science disciplines in one system-based course to discuss respiratory system-related topics. Each of the basic science departments is incorporated into an integrated body of knowledge covering anatomy, physiology, pharmacology, pathology, biochemistry, and microbiology. □
The goals of this course will be achieved via lectures and relevant laboratory practical sessions. More specifically, respiratory system (RS)-related topics will be covered at first to provide basic knowledge and understanding of the structure, the function of the respiratory system, the biochemical basis of its function, as well as the pathological basis of respiratory disorders in the lungs and airways. During the course and whenever relevant, the students are exposed to clinical problems and cases to emphasize the explanations of symptoms, signs, investigations, and forms of treatments. Practical sessions are mostly planned as stations to allow students to expose their knowledge for discussion and confirm concepts learned in lectures. Research ideas are also included to emphasize social responsibility, evidence-based medicine, and innovative thinking.

Course ID: 111501208 **Description:** Immunology

Full Course Description: The course Immunology is designed to provide a basis of terminology relevant to the basic concepts of immunology. It commences with the important components (cells, tissues, antibodies, immunoglobulin) involved in host defense against infectious agents. Introductory lectures serve to describe and differentiate between natural defense (innate) mechanisms and adaptive immunity mediated by functional B and T lymphocytes and their products. Subsequently, cellular interactions, especially the differentiation of helper T cell subsets and the production of relevant cytokines, will be described. This will include the mechanisms of T-cell activation and regulation. Finally, clinical immunology will be discussed: autoimmunity and autoimmune diseases; hypersensitivity reactions, including atopic disorders and asthma; mechanisms of transplant rejection; and immunodeficiency disorders.

Course ID: 111501302 **Description:** The Digestive System

Full Course Description: The Gastrointestinal tract (GIT) System is an intensive, multidisciplinary six-credit-hour course with 58 lectures included. This course aims to cover all the clinically relevant and significant aspects of the gastrointestinal system and provide the fundamental concepts in several GIT-related topics. □
The students will be introduced to anatomy, histology, physiology, pathology, biochemistry, pharmacology, and microbiology of the GIT tract. Theoretical and practical sessions will be taught with an integrative approach. This course also includes clinical lectures and scenarios with questions and discussions, enabling the students to integrate the basic sciences and clinical knowledge, understand common clinical problems, and suggest proper therapeutic management for each. Finally, the students will be encouraged to review up-to-date, evidence-based research conducted in the gastrointestinal field.

Course ID: 161501402 **Description:** Forensic Medicine and Toxicology (1)

Full Course Description: This course covers topics in legal aspects in medical practice, medico-legal accidents, medico-legal death, medico-legal responsibilities as well as criminal investigations and methods of identification of the dead and the alive through two weeks of programmed clinical training in the clinic, postmortem rooms and the court, lectures and seminars. It also covers occupational, agricultural, industrial and medical poisoning.

Course ID: 1815011304 **Description:** The Genitourinary System

Full Course Description: The Genitourinary System is an intensive multidisciplinary 6 credit hour course designed to provide students the basic sciences and clinical framework for topics in genitourinary system. The course is designed to assist the student in integrating the different disciplines' lectures and practicals in each system including anatomy, physiology, pathology, microbiology, pharmacology, biochemistry, and community medicine.

Courses Description

College: Medicine

Department:

Course ID: 111500101 **Description:** Clinical Skills lab (1)

Full Course Description:

- This course will introduce the students to the methods of research in the health field (quantitative and qualitative). □
- This course will provide the students with the core research skills they need to conduct quantitative research and how they can interpret and present their research results. □
- The course will focus on descriptive, inferential statistics as applied to medical practice. □
- The course starts with understanding descriptive measures and probability concepts. Conditional probability and Bayes theorem to test validity and reliability indicators for clinical and laboratory tests, i.e. sensitivity, specificity and predictive values for single and multiple tests. □
- The students will be trained to use a computer software (SPSS) in solving assigned exercises. The students are trained to recognize the different types of variables, organize the data on Excel and SPSS, write a null hypothesis and conduct statistical inferences by Estimation and Hypothesis testing, Chi-square analysis, Analysis of Variance (ANOVA), logistic regression, correlation and non-parametric tests are discussed with relevant clinical examples. □
- The students will learn about the different types of confounders, bias. □
- The course will discuss Vital statistics topics related to Fertility, Morbidity and Mortality indicators. □
- The course is designed to introduce the students to the concepts of community medicine and its integration within clinical medicine. □
- Teaching methods include face to face and online lectures, class discussions, and exercises. □

Course ID: 111500201 **Description:** Clinical Skills lab (2)

Full Course Description: This course covers the skills of history taking and physical examination of the respiratory system, cardio-vascular system and hematopoietic & lymphatic system. It also covers the study of signs and symptoms of the diseases that affect these systems through seminars and practical training performed on the highly sophisticated manikins available at the clinical skill lab.

Course ID: 111500301 **Description:** Clinical Skills lab (4)

Full Course Description: This course covers the skills of history taking and physical examination of the genitourinary system. It also covers the study of signs and symptoms of the diseases that affect the genitourinary system through seminars and practical training performed on the highly sophisticated manikins available at the clinical skill lab.

Course ID: 111500302 **Description:** Clinical Skills lab (5)

Full Course Description: This course covers the skills of history taking and physical examination of the neuroscience I and neuroscience II system. It also covers the study of signs and symptoms of the diseases that affect these systems through seminars and practical training performed on the highly sophisticated manikins available at the clinical skills lab.

Course ID: 111500303 **Description:** Clinical Skill lab (3)

Full Course Description: This course covers the skills of history taking and physical examination of the gastro-intestinal system, endocrine system, and musculo-skeletal system. It also covers the study of signs and symptoms of the diseases that affect these systems through seminars and practical training performed on the highly sophisticated manikins available at the clinical skills lab.

Courses Description

College: Medicine

Department:

Course ID: 111501101 **Description:** Medical Economics

Full Course Description: Against a background of increasing demands on limited resources, health economics is exerting an influence on decision making at all levels of health care. Health economics seeks to facilitate decision making by offering an explicit decision-making framework based on the principle of efficiency. It is not the only consideration, but it is an important one and practitioners will need to understand its basic principles and how it can impact on clinical decision making. This course is based to review some of the basic principles of health economics and in particular economic evaluation. □

This course is specifically designed to enable the medical student to understand the principles of health economic that drive the demand for and supply of medical care in Jordan. □

After completing this course, the student should be able to understand the logic behind decisions made by physicians, hospitals, managed care organizations, and government as well as the choices made by consumers on individual and aggregate levels. The goal is for students to become better equipped at becoming effective decision-makers, themselves. Emphasis will be placed throughout the course on empirically sound and well-grounded economic theory; however, applications of such theory in real situations that have occurred and/or predicted to occur in the future will be illustrated. □

Course ID: 111501102 **Description:** Health Policies

Full Course Description: This course deals with the decisions, plans, and actions that are undertaken to achieve specific health care goals within a society. It also study the different categories of health policies, including personal health care policy, pharmaceutical policy, and policies related to public health such as vaccination policy or tobacco control policy. It covers topics of financing and delivery of health care, access to care, quality of care, and health equity.

Course ID: 111501103 **Description:** Medical Ethics

Full Course Description: This course studies the moral principles that apply values and judgments to the practice of medicine during clinical settings history taking. It covers ethical issues relating to end of life care, abortion, genetic and prenatal testing, birth control, stem cells, organ donation, patient rights.

Course ID: 111501108 **Description:** First aid

Full Course Description: This course introduces the basics of emergency first aid treatment. Topics include issues in providing care, primary assessment and basic life support, secondary assessment, circulatory emergencies, respiratory emergencies, soft tissue injuries, bone & joint injuries, environmental illness & injury, medical conditions, and advanced topics. Upon completion, students should be able to demonstrate skills in providing emergency care for the sick and injured until medical help can be obtained

Course ID: 111501203 **Description:** General Pharmacology

Full Course Description: This is a general pharmacology module for second year medical students. In this series of lectures, students will be introduced to the fundamental concepts of Pharmacology including pharmacokinetics, pharmacodynamics, drug metabolism, and drug interactions. In addition, the course will introduce students to the pharmacology of autonomic nervous systems. Students will also be introduced to the major drug classes that are used to treat pain and fever. This course will introduce the pharmacology and clinical use of antibiotic drugs used in the treatment of infectious diseases. Additional lectures will also cover drugs used in chemotherapy and the treatment of cancer. New lectures are added regarding drugs in pregnancy, toxicology, evaluation of new drugs. □

Courses Description

College: Medicine

Department:

Course ID: 111501206 **Description:** The Cardiovascular System

Full Course Description: This system-based integrated module gives a comprehensive overview of the cardiovascular system. It includes 56 lectures and 11 labs. Each of the basic science topics is incorporated into an integrated body of knowledge covering anatomy, including the developmental anatomy as well as the congenital anomalies, histology, and physiology of the cardiovascular system. It also includes the biochemical and pathological prevention methods of those diseases. It concentrates on drug therapy of common cardiovascular diseases such as hypertension ischemic heart disease, heart failure, and cardiac arrhythmias.

Course ID: 111501209 **Description:** Introduction to Public Health

Full Course Description: This course covers the topics of population science, primary health care, mother and child health, ecology, health care systems and health planning. It also covers the concept of environmental health, study the sources of pollution, classification of pollutants; including water, air, soil and occupational pollutants, the relationship between pollution and work and social behavior, the effect of pollution on health and methods of prevention of pollution and equipment used in this regard.

Course ID: 111501307 **Description:** Clinical Decision Making

Full Course Description: This course is designed to provide undergraduate medical students with a comprehensive understanding of the clinical reasoning and decision analysis processes. Students will learn the theoretical underpinnings of clinical decision making, shared and group decision-making and risk communication, including the numerical concepts and skills required for good interpretation of clinical evidence. This course will cover topics such as clinical decision making and modelling in medicine, shared and group decision making, definition and application of evidence-based medicine, clinical reasoning and associated errors, probabilities and Bayesian reasoning, diagnostic tests reasoning, decision analysis and Markov cohort models, clinical decision support systems, probabilistic sensitivity analysis and behavioral decision making. Ethical decision-making frameworks will be explored and applied to diverse educational and clinical situations. The importance of evidence-based decision-making will be emphasized, and students will learn how to identify, access, assess, and utilize quality evidence from science and other sources to make informed decisions. Integration of individual, societal, community, and global determinants of health into a shared medical decision-making approach to patient care and wellness will be a key focus. By the end of this course, students will have developed a strong foundation in the theoretical and practical aspects of medical decision-making, enabling them to make informed and effective decisions in their future medical practice.

Course ID: 111501308 **Description:** Clinical Psychology

Full Course Description:

Course ID: 161500301 **Description:** Introduction to Clinical Training

Full Course Description: The aim of this course is to help students to acquire clinical skills through the integrated basic science module which will ultimately help in better patient care. Through emphasis on communication skills between health care provider and patients and between different medical staff, we are hoping to prepare our students for their future career, also it will help students to integrate their knowledge of basic sciences with clinical practice. The Course incorporates basic medical history taking and basic physical examination.

Course ID: 161500402 **Description:** Project Research

Full Course Description: لارلارررر

Courses Description

College: Medicine

Department:

Course ID: 161501401 **Description:** Community Medicine (1)

Full Course Description:

- This course will introduce the students to the methods of research in the health field (quantitative and qualitative). □
- This course will provide the students with the core research skills they need to conduct quantitative research and how they can interpret and present their research results. □
- The course will focus on descriptive, inferential statistics as applied to medical practice. □
- The course starts with understanding descriptive measures and probability concepts. Conditional probability and Bayes theorem to test validity and reliability indicators for clinical and laboratory tests, i.e. sensitivity, specificity and predictive values for single and multiple tests. □
- The students will be trained to use a computer software (SPSS) in solving assigned exercises. The students are trained to recognize the different types of variables, organize the data on Excel and SPSS, write a null hypothesis and conduct statistical inferences by Estimation and Hypothesis testing, Chi-square analysis, Analysis of Variance (ANOVA), logistic regression, correlation and non-parametric tests are discussed with relevant clinical examples. □
- The students will learn about the different types of confounders, bias. □
- The course will discuss Vital statistics topics related to Fertility, Morbidity and Mortality indicators. □
- The course is designed to introduce the students to the concepts of community medicine and its integration within clinical medicine. □
- Teaching methods include face to face and online lectures, class discussions, and exercises. □

Course ID: 1815011207 **Description:** Hematopoetic System

Full Course Description: The Hematopoietic and Lymphatic System is a 4-credit hour integrated basic science course that introduces students to the main structures and functions of the hematopoietic system and discusses several disease processes including anemia, bleeding disorders, blood infections, immunodeficiency, and hematological malignancies. In addition, the course allows medical students to explore up-to-date pharmacotherapy of blood disorders.

Course ID: 1815011301 **Description:** The Endocrinology System

Full Course Description: The endocrine module is a four-credit hour course with around 44 lectures and 6 practical labs included. This course integrates all basic science disciplines in one system-based course to discuss endocrine system-related topics. Each of the basic science departments is incorporated into an integrated body of knowledge covering anatomy, physiology, biochemistry, pharmacology, pathology, and community. The goals of this course will be achieved via lectures and relevant laboratory practical sessions. In this course discussing the structure of endocrine glands as well as the development of different endocrine glands. The course also focuses on the role of the endocrine system in maintaining homeostasis as well as the physiological effects of different hormones. In addition, this course describes in detail the biosynthesis of hormones, regulation of hormonal secretion and the mechanism of action of different hormones. It also discusses the drug affecting the endocrine system. In addition, it explains different diseases affecting the endocrine glands and the possibility of pharmacological treatment of each.