

1.	School	<b>Medicine</b>
2.	Department	<b>All departments</b>
3.	Program title (Arabic)	<b>دكتور في الطب</b>
4.	Program title (English)	<b>Doctor of Medicine (M.D)</b>

## 5. Components of Curriculum:

The curriculum for the bachelor's degree in Doctor of Medicine consists of (256) credit hours distributed as follows

Number	Type of requirement	Credit Hours
First	University	<b>27</b>
Second	Basic sciences	<b>18</b>
Third	Basic Medical Sciences	<b>82</b>
Fourth	Clinical Medical sciences	<b>129</b>
<b>Total</b>		<b>256</b>

## 6. Numbering System:

### A- Department number

Number	Department
0	Shared (More than one department)
01	Physiology and Biochemistry
02	Anatomy and Histology
03	Pharmacology
04	Pathology, Microbiology and Forensic Medicine
05	Family and Community Medicine
06	Special surgery
07	General surgery
08	Internal medicine
09	Pediatrics

10	Obstetrics and Gynecology
11	Anaesthesia and intensive care
12	Radiology and Nuclear Medicine

### B- Course number

Domain number	Domain title	Domain number	Domain title
Introduction	0	Digestive System	5
Neurosciences	1	Genitourinary System	6
Endocrinology and Metabolism	2	Blood and the Lymphatic System	7
Cardiovascular System	3	Musculoskeletal System and skin	8
Respiratory System	4	Special Cases	9

### C- Course number consists of 7 digits

School		Department		Level	Serial number	
0	5	0	4	2	0	4

### Preparation Program Requirements

All students admitted to the university must apply for a degree examination in Arabic and English and the computer is prepared or approved by the university to determine their level. Based on the results of the examinations, either the student will study one or more of the requirements of the preparatory program

(0 - 15 Credit Hours)

No.	Course Title	Course No.	Credit Hours	Prerequisites	Notes
1	Basics of Arabic	3201099	3		Pass/Fail
2	Arabic Languages Skills	3201100	3	3201099	Pass/Fail
3	Basics of English	3202099	3		Pass/Fail
4	English Language Skills	3202100	3	3202099	Pass/Fail
5	Basics of Computing	1932099	3		Pass/Fail

**First: University Requirements:**

Compulsory Requirements					
(18 Credit Hours)					
No.	Course Title	Course No.	Credit Hours	Prerequisites	Notes
1	Military Science	2220100	3		
2	National Culture	3400100	3		
3	Learning & Research Skills	3400101	3	3202099	
				3201099	
				1932099	
4	Communication Skills	3400102	3	3400101	
5	Introduction to Philosophy and Critical Thinking	3400103	3	3400101	
6	Human Civilization	3400104	3		
7	Campus Life and Ethics	3400105	(Zero credit; one-hour weekly meeting)		

### Electives

#### (9 Credit Hours)

Elective courses: (9) credit hours to be chosen from the first, second and third groups mentioned below. The student has to choose one course from each of the groups.

#### (First Group)

No.	Course Title	Course No.	Credit Hours	Prerequisites	Notes
1	Great Books	3400107	3		
2	Islam and Current Issues	0400101	3		
3	Arab-Islamic Civilization	2300101	3		
4	Jordan: History and Civilization	2300102	3		
5	Jerusalem	3400108	3		

### Electives

#### (Second Group)

No.	Course Title	Course No.	Credit Hours	Prerequisites	Notes
1	Legal Culture	1000102	3		
2	Environmental Culture	0300102	3		
3	Physical Fitness Culture	1100100	3		
4	Islamic Culture	0400102	3		
5	Health Culture	0720100	3		

Electives					
(Third Group)					
No.	Course Title	Course No.	Credit Hours	Prerequisites	Notes
1	Entrepreneurship & Creativity	3400109	3		
2	Foreign Language	2200103	3		
3	Electronic Commerce	1600100	3		
4	Social Media	1900101	3		
5	Appreciation of Arts	2000100	3		
6	Special Subject	3400106	3		
7	Administrative skills	1601105	3		

**Second: School courses: (28) credit hours distributed as follows:**

**A. Obligatory school courses: (28) credit hours**

**B. Elective school courses: (0) credit hours**

**A. Obligatory school courses: (28) credit hours:**

Course Number	Course Title	Contact Hours		Credit Hours	Pre-requisite	Level
		Theoretical	Practical			
0304101	General Biology 1	3	--	3		Basic
0303101	General Chemistry 1	3	--	3		Basic
0342105	Physics for Medicine and Dentistry	3	--	3		Basic
1902103	Computer skills for Medical Students	3	--	3	1901098, 1902099	Basic
0301131	Principles of Statistics	3	--	3		Basic
0532110	Introduction to Anatomy and Embryology	2	2	3	0304101	Basic
0502111	General Histology	1	2	2		Basic
0501110	Intro. to Physiology	2	--	2		Basic
0333233	Organic Chemistry for Non-Chemistry Majors	3	--	3		Basic
0501113	Introduction to Biochemistry and Molecular Biology	3	--	3	0303101, 0333233, 0304101	Basic

### **Third: Specialty courses: (201) credit hours distributed as follows:**

**B. Obligatory specialty courses: (201) credit hours**

**C. Elective specialty courses: (0) credit hours**

**A. Obligatory specialty courses: (201) credit hours:**

Course Number	Course Title	Contact Hours		Credit Hours	Pre-requisite	Level
		Theoretical	Practical			
0501223	Metabolism	3	--	3		Basic
0504204	Introduction to Microbiology	3	--	3		Basic
0501220	Cell and Molecular Biology	3	--	3	0501113	Basic
0503201	Introduction to Pharmacology	2	--	2		Basic
0504205	Introduction to Pathology	2	--	2		Basic
0535205	Community Medicine	4	--	4		Basic
0500281	Musculoskeletal System and Skin	5	2	6		Basic
0500251	Digestive System	4	4	6		Basic
0500222	Endocrine System	2.5	1	3		Basic
0500301	Medical Ethics	1	-	1		Basic
2307272	Psychology for Medical Students	2	-	2		Basic
0505291	Global Health	3	--	3		Basic
0500331	Cardiovascular System	4	2	5		Basic
0500341	Respiratory System	3	2	4		Basic
0500371	Blood and lymphoreticular System	3.5	1	4		Basic
0505308	Scientific Medical Research	3	2	4		Basic
0534307	Medical Immunology	2	--	2		Basic
0530309	Neurosciences and Behavior	6	2	7		Basic
0500361	Genitourinary System	4	4	6		Basic
0504321	Medical Genetics	2	--	2		Basic
0500402	Intro. to Clinical Medicine and Medical Ethics			8		Clinical
0508414	Medicine -1			12		Clinical
0507403	General Surgery -1			12		Clinical
0500403	Clinical Neurosciences			4		Clinical
0511401	Anesthesia & Intensive Care			4		Clinical
0509504	Pediatrics- 1			4		Clinical
0510502	Obstetrics and Gynecology -1			8		Clinical
0508517	Psychiatry			4		Clinical
0506504	Special Surgery			12		Clinical
	- Orthopedics and Trauma	4				
	- Ophthalmology	2				
	- Otolaryngology	2				
	- Urology	2				
	- Neurosurgery	2				

0500504	Selective Medical Specialties			12		Clinical
	- Radiology and Nuclear Medicine	2				
	- Dermatology	2				
	- Emergency Medicine	2				
	- Forensic Medicine	2				
	- Family Medicine	4				
0503590	Therapeutics	3	--	3		Clinical
0500501	Graduation Project –1	1	--	1		Clinical
0505502	Health Policy and Economics	3	--	3		Clinical
0500602	Elective Clinical Training			8		Clinical
0508602	Medicine -2			8		Clinical
0507603	General Surgery-2			8		Clinical
0509602	Pediatrics -2			8		Clinical
0510602	Obstetrics and Gynecology-2			8		Clinical
0500603	Graduation Project –2	2	--	2		Clinical

**Fourth: Courses offered by other faculties and departments:** *School of Sciences, King Abdullah II*  
*School of Information Technology, School of Arts*

Course Number	Course Title	Contact Hours		Credit Hours	Pre-requisite
		Theoretical	Practical		
0304101	General Biology 1	3	--	3	
0303101	General Chemistry 1	3	--	3	
0342105	Physics for Medicine and Dentistry	3	--	3	
1902103	Computer skills for Medical Students	3	--	3	1901098, 1902099
0301131	Principles of Statistics	3	--	3	
0333233	Organic Chemistry for Non-Chemistry Majors	3	--	3	
2307272	Psychology for Medical Students	2	--	2	

## Fifth: Advisory Study Plan

### First Year

First Semester			Second Semester			Summer Semester		
Course No.	Course Name	Credit Hours	Course No.	Course Name	Credit Hours	Course No.	Course Name	Credit Hours
0304101	General Biology 1	3	0532110	Introduction to Anatomy and Embryology	3	0501113	Introduction to Biochemistry and Molecular Biology	3
0303101	General Chemistry 1	3	0502111	General Histology	2		University Requirement	3
0342105	Physics for Medicine and Dentistry	3	0501110	Intro. to Physiology	2		University Requirement	3
1902103	Computer Skills for Medical Students	3	0333233	Organic Chemistry for Non-Chemistry Majors	3		University Requirement	3
0301131	Principles of Statistics	3		University Requirement	3			
	University Requirement	3		University Requirement	3			
<b>Total</b>		<b>18</b>	<b>Total</b>		<b>16</b>	<b>Total</b>		<b>12</b>

### Second Year

First Semester			Second Semester			Summer Semester		
Course No.	Course Name	Credit Hours	Course No.	Course Name	Credit Hours	Course No.	Course Name	Credit Hours
0501223	Metabolism	3	<b>0500281</b>	Musculoskeletal system and skin	6	0500222	The Endocrine System	3
0504204	Introduction to Microbiology	3	0500251	The Digestive System	6	0500301	Medical Ethics	1
0501220	Cell and Molecular Biology	3	0505291	Global Health	3	2307272	Psychology for Medical Students	2
0503201	Introduction to Pharmacology	2		University Requirement	3		University Requirement	3
0504205	Introduction to Pathology	2					University Requirement	3
0535205	Community Medicine	4						
<b>Total</b>		<b>17</b>	<b>Total</b>		<b>18</b>	<b>Total</b>		<b>12</b>

### Third Year

First Semester			Second Semester		
Course No.	Course Name	Credit Hours	Course No.	Course Name	Credit Hours
0500331	The Cardiovascular System	5	0530309	Neurosciences and Behavior	7
0500341	The Respiratory System	4	0500361	The Genitourinary System	6
0500371	Blood and Lymphoreticular System	4	0504321	Medical Genetics	2
0505308	Scientific Medical Research	2	0505308	Scientific Medical Research	2
0534307	Medical Immunology	2			
<b>Total</b>	<b>17</b>		<b>Total</b>		<b>17</b>

### Fourth Year

Course No.	Course Name	Clinical Training in Weeks	Credit Hours
0500402	Intro. to Clinical Medicine and Medical Ethics	8	8
0508414	Medicine – 1	12	12
0507403	General Surgery – 1	12	12
0500403	Clinical Neurosciences	4	4
0511401	Anesthesia and Intensive Care	4	4
<b>Total</b>		<b>40</b>	<b>40</b>

### Fifth Year

Course No.	Course Name	Clinical Training in Weeks	Credit Hours
0509504	Pediatrics -1	4	4
0510502	Obstetrics and Gynecology -1	8	8
0508517	Psychiatry	4	4
0506504	Special Surgery		12
	- Orthopedics and Trauma	4	
	- Ophthalmology	2	
	- Otolaryngology	2	
	- Urology	2	
	- Neurosurgery	2	
0500504	Selective Medical Specialties		12
	- Radiology and Nuclear Medicine	2	
	- Dermatology	2	
	- Emergency Medicine	2	
	- Forensic Medicine	2	
	- Family Medicine	4	
0503590	Therapeutics	-	3
0500501	Graduation Project – 1	-	1
0505502	Health Policy and Economics	-	3
<b>Total</b>		<b>40</b>	<b>47</b>

### Sixth Year

Course No.	Course Name	Clinical Training in Weeks	Credit Hours
0500602	Elective Clinical Training	8	8
0508602	Medicine -2	8	8
0507603	General Surgery – 2	8	8
0509602	Pediatrics -2	8	8
0510602	Obstetrics and Gynecology -2	8	8
0500603	Graduation Project – 2	-	2
<b>Total</b>		<b>40</b>	<b>42</b>

**Total Credit Hours = 256**

## Course Description

**0304101                                      General Biology 1                                      3 credit hours**

This course introduces students to the principles and concepts of biology. It covers basic cell biology with emphasis on biological chemistry, cell structure and function, cellular metabolism, respiration and cellular division, in addition to emphasis on organisms, biodiversity, plant and animal systems and ecology. In addition, students are made familiar with the basics of genetics; molecular biology of genes and genetic technology.

**0303101                                      General Chemistry 1                                      3 credit hours**

This course is designed to give a general overview of the basic concepts of general chemistry. The main topics include: matter and measurements, stoichiometry, chemical reactions, gaseous state, electronic structure, chemical bonding, properties of solutions, thermochemistry, reaction kinetics and chemical equilibrium.

**0342105                                      Physics for Medicine and Dentistry                                      3 credit hours**

This course provides students with a clear and logical presentation of the basic concepts and principles of physics that are relevant to the medical field. The main topics include: velocity and acceleration, Newton's laws of motion, statistical equilibrium, work and energy, temperature and behavior of gases, the first law of thermodynamics, thermal properties of matter, mechanics of non-viscous fluids, mirrors, lenses and the human eye. In addition to radioactivity; interaction of radiation with matter, radiation units, harmful effects of radiation and applications of radiation in medicine.

**1902103                                      Computer Skills for Medical Students                                      3 credit hours**  
**Prerequisite: (1901098, 1902099)**

This course provides an overview of the Internet, Internet protocols and the World Wide Web. It includes: Internet technology and its various services such as emails, FTP, remote control and chat. Study the principles of navigation, search engines and portals, design and implement websites using Hypertext Markup Language and include how to add images, links, lists, tables, forms, frames to web pages. Students will be introduced to using Cascading Style Sheets and JavaScript.

**0301131                                      Principles of statistics                                      3 credit hours**

This course aims to provide students with the basic concepts in descriptive statistics, topics include statistical data on random phenomena and their description by scheduling and extracting calculations such as measures of concentration, dispersion and graphical representation of statistical data in preparation for use in the inferential statistics, and the graphical representation of data. The course also includes basic health applications.



**0532110                      Introduction to Anatomy and Embryology                      3 credit hours**  
**Prerequisite: (0304101)**

This course covers basic terminology in anatomy and the basics of gross anatomy for all parts of the body (upper limb & lower limb thorax, abdomen, head & neck, and neuroanatomy) as well as an introduction to the anatomy of various body systems through lectures and practical training. It also includes the study of general embryology, which includes the development of embryo starting from the zygote, the fetal membranes, placenta and congenital malformations.

**0502111                      General Histology                      2 credit hours**

This course covers the microscopic structure of cells and tissues of the human body. The course deals with various histological structures of basic tissues (epithelium, different types of connective tissues, including: adipose tissue, bone and cartilage), muscle tissue and nervous tissue). Additionally, this course examines and analyzes the materials being studied using both light and electron microscopy micrographs. Functional correlations often with some elements of clinical significance are presented throughout the course.

**0501110                      Intro. to Physiology                      2 credit hours**

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.

**0333233                      Organic Chemistry for Non-Chemistry Majors                      3 credit hours**

This course covers the structure and properties of all functional groups of organic compounds including hydrocarbons, alkanes, cycloalkanes, alkenes, alkynes, aromatic compounds, halides, alcohols, phenols, ethers, amines, carbonyl compounds and carboxylic acids. The stereochemistry of organic compounds is discussed in this course. Applications related to medicine are given throughout the course.

**0501113                      Introduction to Biochemistry and Molecular Biology                      3 credit hours**  
**Prerequisite: (0303101, 0333233, 0304101)**

This course covers the relationship between organic chemistry and biochemistry, structure of water and its properties including polarization and ionization, acids, bases, and buffers. It also 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. The course also covers the genetic code and its transcription, translation, protein synthesis, and mutations.



**3 credit hours**

**2 credit hours**

**3 credit hours**

**2 credit hours**

**2 credit hours**

## Study Plan- Bachelors



0535205

### Community Medicine

4 credit hours

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. Also, the course covers analytical and descriptive epidemiology, the epidemiology of infectious and chronic diseases; transmission of infectious diseases, descriptive statistics, the theory of probabilities, levels of significance, hypothesis testing, regression and correlation and the use of statistics in epidemiology.

0500281

### Musculoskeletal System and Skin

6 credit hours

This course covers the study of the locomotor system and skin including the anatomy and histology of bones and muscles; the histology of skin and its appendages; and the physiology of muscle contraction and neurotransmission. It also covers the diseases of the skin, muscles and skeletal tissues including bacterial, viral, parasitic and fungal infections, together with disturbances of metabolism and genetics of the locomotor system and tumors of muscles, bones, joints and skin. The course covers also the therapeutics of such diseases and their clinical aspects including signs and symptoms, and disease presentation. Experienced people are invited to give lectures or a variety of interactive activities.

0500251

### The Digestive System

6 credit hours

This course covers the digestive system including the alimentary tract, liver, biliary tree and the pancreas from the standpoints of anatomic and histologic structure and function including motility, secretions, digestion, chemistry of saliva and gastric secretions, bile, pancreatic secretions, and digestive enzymes. It also covers diseases of the digestive system including infections, congenital and acquired malformations, vascular disorders, peptic ulcer, tumors of the digestive system, immune mediated diseases, and drugs used in the treatment of these diseases as well as the clinical aspects of the system including signs, symptoms, and disease presentation.

Experienced people are invited to give lectures or a variety of interactive activities.

0500222

### The Endocrine System

3 credit hours

This course covers the endocrine system from the standpoints of anatomic and histologic structure, hormones including their structures, functions, mechanisms of action, receptors, and their metabolism in addition to the endocrinology disorders including hyperactivity or hypo-activity, immune-mediated diseases, benign and malignant tumors and pharmacological properties of hormones and drugs used in the treatment of endocrine diseases. The course includes also studying the clinical aspects of the endocrine system including signs, symptoms and disease presentation.

Experienced people are invited to give lectures or a variety of interactive activities.

2307272

Psychology for Medical Students

2 credit hour

This course introduces the acquired knowledge, skills and attitudes related to socio-psychological aspects of health, illness and medical practice. Topics covered are psychological and social factors in health promotion and illness prevention, psychological interventions to change behaviour, modify risk, and improve outcomes, psychological processes in disease, social factors and behavioural contributors to disease, psychological management of pain, mental health and mental illness, emotional, cognitive and behavioural responses to illness, adherence behaviours, mood change in chronic illness, illness cognitions, hyper-vigilance, attribution theories, self-concept and self-esteem, co-morbidity, cognitive dissonance, aggression, coping with illness and main aspects of psychology and sociology across the life span. Experienced people are invited to give lectures or a variety of interactive activities.

0500301

Medical Ethics

1 credit hour

In this course medical ethics will be defined and terminology explained, so that the future physician will be familiar with the subject. The course will discuss major and basic ethical issues encountered in medical practice and how they can be resolved. What constitutes an ethical or un-ethical medical practice will be discussed. Legal issues and social norms dealing with medical ethics issues will be emphasized, including human rights, medical law, and interrelationships between physician - patient, physician - physician, and physician - society. Experienced people are invited to give lectures or a variety of interactive activities.

0505291

Global Health

3 credit hours

This course covers health in the world from the aspects of measuring health and diseases in communities and the reasons of their disparities and diseases burden, health equity, culture and health, environmental health, chronic diseases, non-communicable disease, infectious diseases, mother and child health, breastfeeding, nutrition, child development and mental health. The course also covers health systems, health challenges specially to developing and emerging nations with limited resources, health priorities for population groups with diverse cultural backgrounds, catastrophes and emergencies, globalization and health, international human rights, social justice, and international health regulations. Experienced people are invited to give lectures or a variety of interactive activities.

0500331

The Cardiovascular System

5 credit hours

This course covers the study of the cardiovascular system from the standpoints of anatomic and histologic structure of heart, veins, arteries and capillaries, functions of the cardiovascular system including the physiology of the heart, membrane properties, heart contractility and its mechanisms, electrical conduction and electrocardiography, heart as a pump and cardiac cycle, blood flow and its disorders, cardiac output, blood pressure regulation, cardiac effort, circulatory disorders, heart failure, and cardiac enzymes and their relationship to myo-cardiac infarction. It also covers diseases of the heart and blood vessels including infections, atherosclerosis, hypertension, ischemic heart diseases, congenital heart diseases and treatment

of cardiovascular diseases. The course includes also studying the clinical aspects of the cardiovascular system including signs, symptoms, and disease presentation.

Experienced people are invited to give lectures or a variety of interactive activities.

<b>0500341</b>	<b>The Respiratory System</b>	<b>4 credit hours</b>
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This course covers the respiratory system from the standpoints of its anatomic and histologic structure, functions including respiration and its mechanisms and characteristics, airway resistance, gas diffusion in the lung, and gas exchange and transport, pulmonary function tests, chemical properties of oxygen, its transport and abnormalities and respiratory alkalosis and acidosis. It also covers diseases of the respiratory tract including infections, vascular, obstructive, occupational and immune-mediated diseases, tumors of the respiratory tract and pharmacologic treatment of these diseases. The course includes also studying the clinical aspects of the respiratory system including signs, symptoms, and disease presentation. Experienced people are invited to give lectures or a variety of interactive activities.

<b>0500371</b>	<b>Blood and Lymphoreticular System</b>	<b>4 credit hours</b>
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This course covers the study of cellular elements of lymph, blood and the histology of both central and peripheral lymphatic systems, including bone marrow, thymus, spleen and lymph nodes. It also covers the production of blood cells, the physiology of tissue fluids, lymph and plasma including the functions of these fluids and cells, bleeding, coagulation, chemistry of blood and lymph together with the structure of hemoglobin, its functions and hemoglobinopathies, plasma proteins, immunological properties of plasma globulins, complement, immunological mechanisms, the diseases that affect blood and the lymphatic system including disturbances of red blood cells, various types of anemia; disturbances of white blood cells including their numbers and functions; leukemias and lymphomas; disturbances of bleeding and coagulation; diseases of the spleen and thymus; therapeutics of blood and lymphatic diseases. The course includes also studying the clinical aspects of the blood and lymphoreticular system including signs, symptoms, and disease presentation.

Experienced people are invited to give lectures or a variety of interactive activities.

<b>0505308</b>	<b>Scientific Medical Research</b>	<b>4 credit hours</b>
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This course is designed to provide the students with the essential knowledge and skills of quantitative medical research including the identification of the problem to writing the research paper. This course deals with the purpose of quantitative medical research, planning of the quantitative medical research (research problem, hypothesis writing, research plan, and ethics in quantitative medical research). It also covers reviewing the literature, sampling and measurement tools, experimental design, internal and external validity of experiments, statistical analysis techniques, data processing and preparing the research report. Also, the course provides a comprehensive introduction to qualitative paradigm and its current and potential application in medical sciences. The philosophical assumptions behind this kind of research, assumptions underlying various qualitative schools of inquiry (e.g., grounded theory, phenomenology, ethnography, action research, and narrative). During the course, students are expected to be engaged in

actual field work in different areas of Jordan for the purpose of collecting data, producing results, analyzing them and writing the research report.

Experienced people are invited to give lectures or a variety of interactive activities.

0534307

Medical Immunology

2 credit hours

This course covers the study of the immune system including types of cells and tissues, their distribution in the body, their functions, growth, development and differentiation, antigens and their characteristics, antibodies and their types and functions, serologic reactions, the complement system and its functions and activation, interaction between cells in the generation of the immune response, and immunologic disorders including autoimmunity, hypersensitivity, tumor immunology, immunology of transplantation, and immunodeficiency diseases. Also, it covers the drugs used in the treatment of these diseases.

0530309

Neurosciences and Behavior

7 credit hours

This course covers the study of the nervous system and special senses from the stand points of anatomy, histology and organization of the central and peripheral nervous system including the brain, spinal cord, and nerves including their motor and sensory functions in addition to the study of vision, hearing and chemical sense, cerebral cortex and intellectual functions, neurotransmission including its chemistry, receptors and neurotransmitters, and chemistry of vision. It also covers diseases of the central nervous system and organs of special senses including bacterial, viral, fungal and parasitic infections, brain edema, hydrocephalus, vascular disturbances, trauma, congenital malformations, tumors, degenerative and immune-mediated disorders and the drugs used for the treatment of these diseases. The course also covers the clinical aspects of diseases that affect the central and peripheral nervous system as well as special senses. On the other side, this course covers theories of behavior, stress physiology, interventions to change behavior, life cycle, personality, motivation, biologic basis of behavior, sleep, social determinants of behavior, disorders of cognition, memory, mood and psychotic disorders. In addition, it covers perception and thinking, violence and suicide, human sexuality, death and dying, immune and risk behavior, physician patient relationship, eating and obesity, anxiety and dissociative disorders and mental health.

Experienced people are invited to give lectures or a variety of interactive activities.

0500361

The Genitourinary System

6 credit hours

This course covers the study of the male and female genitourinary systems from the standpoints of anatomic and histologic structure and function including renal physiology which covers glomerular filtration, renal tubule functions, acid base balance and the role of the kidney. It also covers the physiology of the reproductive system of males and females, hormones and their functions as well as diseases of the genitourinary system and breast including infections, benign and malignant tumors, inflammation, placental disorders, gestation, infertility, renal failure and the treatment of these diseases. The course also covers the clinical aspects of the system including the study of signs, symptoms, and disease presentation. Experienced people are invited to give lectures or a variety of interactive activities.



**0504321                                      Medical Genetics                                      2 credit hours**

**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 map, sex determination, sex-linked characteristics, human genetic disorders and their diagnosis and management, and genetic engineering.**

**0500402                                      Intro. to Clinical Medicine and Medical Ethics                                      8 credit hours**

**This course covers communication skills with patients and their relatives and the skills of history taking and physical examination of the different body systems and the study of signs and symptoms of the diseases that affect the body through clinical training, lectures and seminars over an eight-week period. The course also covers the topics of medical informatics and medical ethics through lectures, seminars and practical training.**

**0508414                                      Medicine – 1                                      12 credit hours**

**This course covers through twelve weeks of programmed clinical training, lectures and seminars the study of diseases that affect humans including methods of history taking and performing the physical examination to reach into a diagnosis by studying these signs and symptoms. Additionally, the course covers the therapeutics and interventions used in the treatment of such diseases. Experienced people are invited to give lectures or a variety of interactive activities.**

**0507403                                      General Surgery-1                                      12 credit hours**

**This course covers the study of surgical diseases that affect the different body systems, including history taking and physical examination to reach into a diagnosis and the surgical methods used for their treatment and patient follow up after surgery through twelve weeks of programmed clinical training, lectures and seminars, in addition to clinical training in anesthesia and critical care. Experienced people are invited to give lectures or a variety of interactive activities.**

**0500403                                      Clinical Neurosciences                                      4 credit hours**

**This course covers major topics in neurology (multiple sclerosis, stroke, movement disorders, epilepsy, dementia, headache, CNS infections and peripheral neuropathy). It also covers history taking and performing proper physical examination to reach into diagnosis through programmed clinical training for four weeks, in addition to lectures and seminars. Experienced people are invited to give lectures or a variety of interactive activities.**



**4 credit hours**

**Experienced people are invited to give lectures or a variety of interactive activities.**

**4 credit hours**

**Experienced people are invited to give lectures or a variety of interactive activities.**

**8 credit hours**

**Experienced people are invited to give lectures or a variety of interactive activities.**

**4 credit hours**

**Experienced people are invited to give lectures or a variety of interactive activities.**

0506504

Special Surgery

12 credit hours

This course covers specific surgical specialties including orthopedics, and traumatology, through the study of signs and symptoms, etiology and means of clinical, laboratory and radiological diagnoses, in addition to ways of medical and surgical treatment including physiotherapy and rehabilitation for a period of four weeks of clinical training including lectures seminars and group discussions. The course also covers ophthalmology through the study of eye diseases and trauma and refractive errors and ways of their diagnosis and medical and surgical treatment including corrections of refractive errors, through a two-week period of clinical training including lectures, seminars and group discussions. The course covers as well urology involving diseases that affect the urinary system including infections, obstructive lesions, tumors and anomalies as well as methods of diagnosis and treatment through a two-week clinical training, lectures and seminars. The course also covers diseases of the ear, nose and throat together with disturbances of hearing, speech and balance, through the study of signs and symptoms, etiology and means of clinical, laboratory and radiological diagnoses, in addition to audio testing and testing of balance, together with the ways of treatment of such disturbances both medically and surgically, and prevention and control, through a two week period of programmed clinical training including lectures, seminars and group discussions. The final part of the course covers neurosurgery through studying diseases that affect central and peripheral nervous system and their surgical interventions which include: abscess, tumors, aging disorders, road traffic and falling accidents, in addition to brain trauma as hemorrhage and stroke, through a two-week period of programmed clinical training including lectures, seminars and group discussions.

Experienced people are invited to give lectures or a variety of interactive activities.

0500504

Selective Medical Specialties

12 credit hours

This course covers specialized topics in medicine including radiology and nuclear medicine, dermatology, and emergency medicine and forensic medicine and toxicology in a two-week programmed clinical training period for each of these three specialties, and four weeks of clinical training in family medicine. This is achieved through lectures and seminars which cover the principles of imaging and its clinical applications in the diagnosis of diseases and injuries of the different body systems utilizing simple x-rays, computerized tomography, nuclear resonance, ultrasonography, and radioisotope scanning. The course also covers the study of the disease of the skin and its appendages and pigmentation disorders involving causes, signs and symptoms and therapeutic interventions as well as their epidemiology through two weeks of clinical training, lectures and seminars. In addition, the course covers training in emergency medicine and forensic medicine and toxicology including the principles of diagnosis and treatment of medical and surgical emergencies as well as management of accidents and casualties and the 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, lectures and seminars. It also covers occupational, agricultural, industrial and medical poisoning. Finally, the course covers family medicine for four weeks of clinical training involving the training of students to provide comprehensive medical care for all family members utilizing available resources and consultative services with the aim to reach to a quality care. The course also covers subjects related to community health including environmental health, school health, immunization programs as well as medical records and medical informatics.

Experienced people are invited to give lectures or a variety of interactive activities.



**3 credit hours**

**1 credit hour**

**3 credit hours**

**8 credit hours**

**8 credit hours**

## Study Plan- Bachelors

**0507603**

**General Surgery-2**

**8 credit hours**

**This course involves the training of students in outpatient clinics, specialized units and operating rooms covering the study of the clinical manifestations of diseases, their diagnosis and treatments in addition to postoperative follow-up. The course is delivered through eight weeks of programmed clinical training, tutorials and seminars.**

**Experienced people are invited to give lectures or a variety of interactive activities.**

**509602**

**Pediatrics -2**

**8 credit hours**

**This course covers pediatric diseases, methods of treatment and caring for the child through eight weeks of programmed clinical training in outpatient clinics, Intensive Care Unit, and Neonatal Intensive Care Unit, seminars and group discussions. Students are trained to deal with pediatric diseases through a problem-solving approach.**

**Experienced people are invited to give lectures or a variety of interactive activities.**

**0510602**

**Obstetrics and Gynecology-2**

**8 credit hours**

**This course covers the study of gynecological diseases, pregnancy, antenatal care, family planning and contraception through programmed clinical training for a period of eight weeks in outpatient clinics, delivery room, obstetrics operation room in addition to seminars and group discussions.**

**Experienced people are invited to give lectures or a variety of interactive activities.**

**0500603**

**Graduation Project– 2**

**2 credit hours**

**This course represents the actual start of the project including data collection, analysis, and discussion of the results. The student must write a detailed report of the research project and defend it in front of his/her supervisor or an assigned committee.**

**Experienced people are invited to give a variety of interactive activities.**