



Jordan University of Science and Technology
Faculty of Medicine

**Curriculum for "Bachelor of Medicine and Bachelor of Surgery
(M.B.B.S)"**

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Vision:

The Faculty of Medicine at Jordan University of Science and Technology (FMJUST) is committed to teaching with creativity, and dedication; healing with quality, and compassion; and research with innovation.

Mission:

FMJUST is a community of scholars dedicated to provide relevant education to a diverse body of medical undergraduate and postgraduate students; to deliver state-of-the-art health care service and medical research.

Objectives:

1. To train students to be competent and skillful physicians to provide community-based health care.
2. To train medical students to be socially responsible with commitment to highest levels of professionalism and medical ethics.
3. To encourage students to practice life-long learning and continuous professional development and to explore post graduate opportunities.
4. To enable students to perform appropriate search and appraisal of medical literature.
5. To train students to apply latest appropriate health programs and technologies to provide patient-centered health services.
6. To lead preventive and management health programs and initiatives in North Jordan.
7. To lead health research projects in basic and clinical sciences that meet the needs of local and regional communities.
8. Facilitate the communication between local and international health policy makers to provide up-to-date effective health services to the communittee.

Fields of work for graduates of from FMJUST:

The FMJUST qualifies graduates to work as a general practitioners in University hospitals, hospitals of Ministry of Health, Royal Medical Services, general practitioner clinics and centers. It also qualifies them to be able to complete their graduate studies in all medical specialties.

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Course Numbering and Coding:

To distinguish the courses, a coding process is used so that the course code consists of 3 letters and three digits as in the following table:

Faculty	Course Level	General Course Field	Course Order
MED	x	y	z

Based on the above table, courses will be coded as follows:

"**MED** xyz"

Course Level:

- The following table shows the coding system for the course level (X) according to the indicative table:

X Code	Year Level
1	First year
2	Second year
3	Third year
4	Fourth year
5	Fifth year
6	Sixth year

Medical students are granted the degree of "Bachelor's degree in Medicine and Surgery" upon the completion of 257 credit hours distributed as follows:

Faculty requirements	Requirement Nature	Credit hours				
		Mandatory	Optional	Theory	Practical	Total
	University Requirements	16	9	25	-	25
	Faculty of Science and Arts	11	-	10	1	11
	Faculty of Medicine	221	-	221	-	221
	Total	248	9	-	-	257

A) University Requirements: 25 Credits hours including:

I) Mandatory Courses: 16 credit hours:

Course No.	Course title	Credit hours	Theoretical	Practical	Pre-requisite
ARB101	Arabic language	3	3	-	
MS100	Military sciences	3	3	-	
HSS110	Social responsibility	3	2	1	
HSS119	Entrepreneurship and innovation	2	2	-	
HSS129	General skills	2	2	-	Co-requisite LG 112
LG112	English Language (2)	3	3	-	Prerequisite LG99 <u>OR</u> pass Introductory exam (>50%)

- Non-Jordanians are waived from taking "Military Sciences", and they are allowed to replace it with an extra elective course below.

- Non-Arabic speakers will take ARB101A and HSS110A to replace ARB101 and HSS110.

Course Code	Course name	Credit hours	Prerequisite
ARB 101A	Fundamentals of Arabic language for non-Arabs	3	-
HSS 110A	The social responsibility	3	-

II) Elective Courses: 9 Credit hours. Students should choose one course from each of the following groups (and they are included in the first year, regardless of the course code):

The First Group: Human knowledge				
Course No.	Course title	Credit hours		
		Theoretical	Lab	Total
ARB200	Appreciation of literary texts	3	3	-
HSS115	Islam and recent problems	3	3	-
HSS116	Economic system in Islam	3	3	-
HSS121	Principles of sociology	3	3	-
HSS126	Principles of psychology	3	3	-
HSS127	Educational technology	3	3	-
HSS131	Islamic civilization	3	3	-
HSS132	The history of the city of Jerusalem	3	3	-
HSS133	Civilization and recent cultures	3	3	-
HSS135	Islamic culture	3	3	-
HSS137	Human rights	3	3	-
HSS161	Contemporary problems	3	3	-
HSS211	Sociology	3	3	-
HSS213	Individual and society	3	3	-

HSS231	History of sciences in Islam	3	3	-
HSS 251	Music tasting	3	3	-
The second group: Scientific and agricultural knowledge				
ES103	Environment protection (for non Environmental sciences students)	3	3	-
ME102	Introduction to renewable energy (for non me students)	3	3	-
CHE191	Introduction to nanotechnology	3	3	-
NF177	Food preservation "in English" (for non-nutrition & food technology students)	3	3	-
AP200	Farm animal products and production (for non-agriculture and veterinary)	3	3	-
PP200	Home gardens (for non-agriculture students)	3	3	-
PP201	Bee keeping (for non-agriculture students)	3	3	-
NR 200	Natural resources and man(for non-agriculture students)	3	3	-
NR 207	Earth problems and solutions (for non-agriculture students)			
PP202	Natural plants of Jordan (for non-agriculture students)	3	3	-
NE 200	Principles in Nuclear Energy And Its Peaceful Applications			
The Third Group: Health knowledge				
NUR100	Health promotion(non-medicine ,nursing and midwifery)	3	3	-
VM211	Animal-health (for non-veterinary and agriculture students)	3	3	-
VM212	Pet animal care (for non-veterinary students)	3	3	-
VM213	Animal behavior and welfare (for non-veterinary students)			
VM214	Animal products and public health (for non-veterinary students)			
P.T100	Wellness& lifestyle (not for physical & occupational therapy)	3	3	-
O.T100	Disability and the society (not allowed for rehabilitation science dep. students)			

B) Faculty Requirements:**I) Requirements from Faculty of Science and Arts: 11 Credit hours**

Course No.	Course Title	Credit hours	Theory	Weekly practical hours
PHY104	Medical physics	3	3	-
BIO104	General biology	3	3	-
BIO108	General biology Lab	1	0	3
CHEM108	General and organic chemistry	4	4	-
TOTAL		11	10	3

II) Requirement from inside Faculty of Medicine: 221 Credit Hours

Course No.	Course Title	Credit hours	Theory	Weekly practical hours	Weeks
MED 114	Cell Biology and Histology	3	2	3	
MED 115	Anatomy & Embryology	3	2	3	
MED 122	Biochemistry	3	3	-	
MED 132	General Physiology	3	3	-	
MED 133	Immunology	3	3	-	
MED 173	Introduction to Medicine and Medical Terminology	4	4	-	
MED 183	Introduction to Research and Evidence-Based Medicine	3	3	-	
MED 202	Genetics	3	3	-	
MED 203	Genetics Lab	1	-	3	
MED 231	General Pathology	3	2	3	
MED 251	General Pharmacology	3	3	-	
MED 265	General Microbiology	3	2	3	
MED 272	Haemopoietic & Lymphatic System	6	4	6	
MED 282	Neuroscience System	7	5	6	

MED 284	Epidemiology and Health Economics	2	2	-	
MED 292	Musculoskeletal & Integumentary System	5	3	6	
MED 293	Biostatistics and Health Informatics	3	3	-	
MED 301	Medical Communications Skills	1	1	-	
MED 311	Gastrointestinal System	6	4	6	
MED 312	Medical Ethics and Forensic Medicine	2	2	-	
MED 320	Endocrine System	4	3	3	
MED 352	Urinary & Reproductive System	8	6	6	
MED 353	Respiratory System	6	4	6	
MED 364	Cardiovascular System	6	4	6	
MED 408	Research and Community Medicine	4.5	1.5	9	6
MED 409	Introduction in Clinical Medicine	4.5	1.5	9	6
MED 412	General Surgery 1	9	-	-	10
MED 415	Clinical Psychology	3	3	-	-
MED 416	Forensic Medicine	2.25	-	-	2
MED 417	Dermatology	2.25	-	-	2
MED 418	Anesthesia and Recovery	2.25	-	-	2

MED 419	Diagnostic Radiology	2.25	-	-	2
MED 420	Research Project	1	-	3	2
MED 422	General Medicine 1	9	-	-	10
MED 507	Pediatrics 1	9	-	-	9
MED 510	Obstetrics & Gynecology 1	9	-	-	9
MED 540	Psychiatry	4.5	-	-	4
MED 550	Ear, Nose, & Throat	2.25	-	-	2
MED 553	Orthopedics	4.5	-	-	4
MED 556	Neurology	2.25	-	-	2
MED 557	Neurosurgery	2.25	-	-	2
MED 560	Ophthalmology	2.25	-	-	2
MED 591	Elective 1	4.5	-	-	4.5
MED 592	Elective 2	4.5	-	-	4.5
MED 610	General Surgery 2	9	-	-	8
MED 620	General Medicine 2	9	-	-	8
MED 630	Pediatrics 2	9	-	-	8
MED 640	Obstetrics & Gynecology 2	9	-	-	8

MED 645	Family Medicine & and "Accident and Emergency Medicine"	9	-	-	8
TOTAL		221			

Program Curriculum

First Year													
First semester							Second semester						
Course No.	Course name	Credit Hours	Weekly hours		pre-requisite	Concurrent requirement	Course No	Course name	Total credits	Weekly hours		pre-requisite	Concurrent requirement
			Theory	practical						Lecture	Lab		
PHY 104	Medical Physics	3	3	-	-	-	MED 114	Cell biology and Histology	3	2	3		
MED 173	Introduction to Medicine and Medical Terminology	4	4	-	-	-	MED 115	Anatomy & Embryology	3	2	3		
BIO 104	General Biology	3	3	-	-	-	MED 122	Biochemistry	3	3	-		
BIO 108	General Biology Lab	1	0	3	-	-	MED 132	General Physiology	3	3	-		
CHEM 108	General and Organic Chemistry	4	4	-	-	-	MED 183	Introduction to Research and Evidence-Based Medicine	3	3	-		
LG112	English Language (2)	3	3	-	LG99 OR pass Introductory exam (>50%)	-							
TOTAL		18	17	3	-	-	TOTAL		15	13	6		

First Year						
Summer semester						
Course No.	Course name	Credit Hour	Weekly hours		pre-requisite	Concurrent requirement
			Theory	practical		
MED 133	Immunology	3	3	-	-	
HSS 129	General Skills	2	2	-	-	LG112
HSS119	Entrepreneurship and Innovation	2	2	-	-	-
ARB101	Arabic Language	3	3	-	-	-
TOTAL		10	10			

Second Year													
First semester							Second semester						
Course No.	Course name	Total credits	Weekly hours		pre-requisite	Concurrent requirement	Course No	Course name	credits	Weekly hours		pre-requisite	Concurrent requirement
			Lecture	Lab						Lecture	Lab		
HSS110	Social Responsibility	3	2	1			MED 272	Haemopoietic & lymphatic System	6	4	6		
MED 202	Genetics	3	3	-			MED 282	Neuroscience System	7	5	6		
MED 203	Genetics Lab	1	-	3			MED 292	Musculoskeletal & Integumentary System	5	3	6		
MED 231	General Pathology	3	2	3									
MED 251	General Pharmacology	3	3	-									
MED 265	General Microbiology	3	2	3									
MED 284	Epidemiology and Health Economics	2	2	-									
TOTAL		18	14	10	-	-	TOTAL		18	12	18		

Second Year						
Summer semester						
Course No.	Course name	Total credits	Weekly hours		pre-requisite	Concurrent requirement
			Lecture	Lab		
MS 100	Military sciences	3	3	-		
MED 293	Biostatistics and Health informatics	3	3	-		
	Elective I	3	3	-		
	Elective II	3	3	-		
TOTAL		12	12			

Third Year													
First semester							Second semester						
Course No.	Course name	Total credits	Weekly hours		pre-requisite	Concurrent requirement	Course No	Course name	credits	Weekly hours		pre-requisite	Concurrent requirement
			Lecture	Lab						Lecture	Lab		
MED 301	Medical Communications Skills	1	1	-			MED	Gastrointestinal System	6	4	6		
MED 352	Urinary & Reproductive System	8	6	6			MED	Medical Ethics and Forensic Medicine	2	2	-		
MED 353	Respiratory System	6	4	6			MED	Endocrine System	4	3	3		
	Elective Course 3	3	3	-			MED	Cardiovascular System	6	4	6		
TOTAL		18	14	12	-	-	TOTAL		18	13	15		

Fourth Year							
Summer semester				First semester			
Course No.	Course name	Credits Hours	Weeks	Course No	Course name	Credits Hours	Weeks
MED 408	Research and Community Medicine	4.5	6	MED 412	General Surgery 1	9	10
MED 409	Introduction in Clinical Medicine	4.5	6	MED 422	General Medicine 1	9	10
			Followed by 1-week examination				
TOTAL		9	13	TOTAL		18	20

Fourth Year			
Second semester			
Course No.	Course name	Total credits	weeks
MED 415	Clinical Psychology	3	
MED 416	Forensic Medicine	2.25	2
MED 417	Dermatology	2.25	2
MED 418	Anesthesia and Recovery	2.25	2
MED 419	Diagnostic Radiology	2.25	2
MED 420	Research Project	1	2
TOTAL		13	10

- 1- The Fourth year starts on the month of June and end on the month of May of the following year.
- 2- Total weeks for the 4th year (including examinations) = 43 weeks.
- 3- MED (416, 417, 418, 419, 420) are combined together, and their exams are given on the 10th week over 4 days.
- 4- MED 415 is scheduled on the 2nd semester only (3 hours per week) for ALL students in 2 sections: (Sunday, Tuesday, and Thursday) and (Monday and Wednesday).
- 5- MED 412 and MED 422 are 10 weeks long each, including their exams on the 10th week.
- 6- MED408 and MED 409 are 6 weeks long each, and their exams are scheduled in the 13th week.

Fifth Year							
Summer semester				First semester			
Course No.	Course name	Total credits	weeks	Course No	Course name	Credits Hours	Weeks
MED 507	Pediatrics I	9	9	MED	Obstetrics & Gynecology I	9	9
				MED	Elective I	4.5	4.5
				MED	Elective II	4.5	4.5
TOTAL		9	9	TOTAL		18	18

Fifth Year			
Second semester			
Course No.	Course name	Total credits	duration/weeks
MED 540	Ophthalmology (SS)	2.25	2
MED 550	Ear, Nose & Throat (SS)	2.25	2
MED 553	Orthopedics (SS)	4.5	4
Examination Week			1
MED 556	Neurology	2.25	2
MED 557	Neurosurgery	2.25	2
MED 560	Psychiatry	4.5	4
Examination Week			1
TOTAL		18	18

- 1) The Fifth year starts on June and ends on July of the following year.
- 2) Total weeks for the 5th year (including examinations) = 45 weeks.
- 3) Length of MED 507 and MED 510 is 9 weeks each, including practical examination.
- 4) MED 560, MED 550, and MED 553 are combined in one group, and their exams are given in the 9th week.
- 5) MED556, MED 540, and MED 557 are combined in one group, and their exams are given in the 9th week.

Sixth Year							
Summer semester				First semester			
Course No.	Course name	Credits Hours	Weeks	Course No	Course name	Credits Hours	weeks
MED 610	Surgery II	9	8	MED 640	Obstetrics & Gynecology II	9	8
				MED 645	Family Medicine & "Accident and Emergency Medicine"	9	8
TOTAL		9	8	TOTAL		18	16

Sixth Year			
Second semester			
Course No.	Course name	Credits Hours	Weeks
MED 620	General Medicine II	9	8
MED 630	Pediatrics II	9	8
TOTAL		18	16

Total weeks in 6th year including examinations = 40 weeks

Course Descriptions

Course Code and Name	MED 114 Cell Biology and Histology (Theory: 2 credit hours; Practical 3 hours weekly)
Brief Description	This course provides basic knowledge of microscopic anatomy through studying biological cell components, structure, activity, and the interstitial fluid in different biological tissues.
Course Code and Name	MED 115 Anatomy& Embryology (Theory: 2 credit hours; Practical 3 hours weekly)
Brief Description	This course offers basic knowledge of macroscopic anatomy through studying different body systems. In addition, it provides discussion of early human development from Gametogenesis through tissue development of the fetus.
Course Code and Name	Med 122 Biochemistry (Theory: 3 credit hours; Practical 0 hours weekly)
Brief Description	This course provides general principles of biochemistry and its medical application.
Course Code and Name	MED 132 General Physiology (Theory: 3 credit hours; Practical 0 hours weekly)
Brief Description	This course offers basic principles of body function at the molecular, cellular, and system levels. Also, it explains the basis of homeostasis and mechanisms of controlling the balance between different body systems.
Course Code and Name	MED 133 Immunology (Theory: 3 credit hours; Practical 0 hours weekly)
Brief Description	This course offers basic knowledge to immunology and its applications in diseases and diagnosis. It also explains the immune and functional responses of the immune system or its disturbances. Basic knowledge of immunology laboratory is also briefly covered.
Course Code and Name	MED 173 Introduction to Medicine and Medical Terminology (Theory: 4 credit hours; Practical 0 hours weekly)
Brief Description	This course provides brief description of different aspects to medical students including medical curriculum, historical perspective of medicine, medical terminology, medical professionalism and ethics, medical knowledge and society, and basic medical language. It also provides the students with knowledge of international exams related to medicine.
Course Code and Name	MED 183 Introduction to Research and Evidence-Based Medicine (Theory: 3 credit hours; Practical: 0 hours weekly)

Brief Description	This course describes basic principles of research and evidence-based medicine and critical thinking. It enhances the research skills to medical students to identify different study designs and results interpretation and the applications of these studies in the medical field and public health sectors.
Course Code and Name	MED 202 Genetics (Theory: 3 credit hours; Practical: 0 hours weekly)
Brief Description	This course provides basic principles of molecular genetics and its implications in medicine through studying molecular structure, organization, transcription, mutations, and repair related to the genetic material. It also explains the genetic cancers and recent advancements in molecular biology.
Course Code and Name	MED 203 Genetics (practical) (Theory: 0 credit hours; Practical: 3 hours weekly)
Brief Description	This course provides basic principles of laboratory techniques related to biochemistry and molecular biology.
Course Code and Name	MED 231 General Pathology (Theory: 2 credit hours; Practical: 3 hours weekly)
Brief Description	This course provides basic knowledge of disease causes and mechanisms, and connects between basic medical sciences and clinical medicine. The course also explains the molecular and cellular responses to disease causative factors and the cellular response to inflammation and repair and tumor development.
Course Code and Name	MED 251 General Pharmacology (Theory: 3 credit hours; Practical: 0 hours weekly)
Brief Description	This course provides basic principles of pharmacology including pharmacodynamics and pharmacokinetics. It also provides medical indications and side effects of most common drugs. It also covers the stages of drugs development, management of drug toxicity and drug interaction.
Course Code and Name	MED 265 General microbiology (Theory: 2 credit hours; Practical: 3 hours weekly)
Brief Description	This course provides basic principles of bacteriology, virology, fungology, and parasitology. It explains concepts of infection control and the collection of laboratory specimens. The included laboratory sessions covers basic principles clinical microbiology lab work.
Course Code and Name	MED 272 Hematolymphatic System (Theory: 4 credit hours; Practical: 6 hours weekly)
Brief Description	This course provides comprehensive anatomical and physiological characteristic of the blood and lymphatic systems including the diseases that are associated with them such as anemias, hereditary disorders, and leukemia with the management options for them.
Course Code and Name	MED 282 Neuroscience System (Theory: 5 credit hours; Practical: 6 hours weekly)

Brief Description	This course provides comprehensive anatomical, physiological, pathological, biochemical, and pharmacological characteristics for the central and peripheral nervous systems. It also discusses human behavior responses in normal and pathological conditions, including congenital abnormalities.
Course Code and Name	MED 284 Epidemiology and Health Economics (Theory: 2 credit hours; Practical: 0 hours weekly)
Brief Description	This course provides basic knowledge of public health and community medicine and teaches principles of epidemiology and concepts of primary health care and its applications. It concentrates on environmental health, maternal and child health, preventive healthcare, and health education. It covers health care administration in health system and primary health care.
Course Code and Name	MED 292 Musculoskeletal & Integumentary System (Theory: 3 credit hours; Practical: 6 hours weekly)
Brief Description	This course provides comprehensive anatomical and physiological knowledge of skeletal muscles and the skin. It discusses information related to microbiology, biochemistry, and pharmacological information related to the pathology related to this system that affect muscles, bone, joints, tendons, skin, and associated connective tissues.
Course Code and Name	MED 293 Biostatistics and Health Informatics (Theory: 3 credit hours; Practical: 0 hours weekly)
Brief Description	This course basic information in descriptive and analytical statistics and teaches the concepts of probabilities and different types of bias to measure laboratory tests and clinical trials to deal with statistics related to experimental designs.
Course Code and Name	MED 301 Medical Communications Skills (Theory: 1 credit hours; Practical: 0 hours weekly)
Brief Description	This course provides the students with basic concepts of communication skills such as writing skills, communications skills, and presentation skills. It will help the students to learn how to write professional emails, CV, statement of purpose, and prescriptions that are essential to their future career.
Course Code and Name	MED 311 Gastrointestinal System (Theory: 4 credit hours; Practical: 6 hours weekly)

Brief Description	This course provides comprehensive anatomical and physiological knowledge of gastrointestinal system and related nutritional and public health problems. It also discusses different pathological conditions related to this system and its relation to biochemistry, microbiology, and pharmacological options.
Course Code and Name	MED 312 Medical Ethics and Forensic Medicine (Theory: 2 credit hours; Practical: 0 hours weekly)
Brief Description	This course discusses main and current ethical and medical issues and recent philosophical issues related to ethics. It also discusses judicial medical investigations related to death, suicide, injury, and sexual offences.
Course Code and Name	MED 320 Endocrine System (Theory: 3 credit hours; Practical: 3 hours weekly)
Brief Description	This course provides comprehensive anatomical and physiological knowledge of endocrine glands in human being. It also discusses different pathological conditions related to this system and its relation to biochemistry, microbiology, and pharmacological options.
Course Code and Name	MED 352 Urinary & Reproductive System (Theory: 6 credit hours; Practical: 6 hours weekly)
Brief Description	This course provides comprehensive anatomical and physiological knowledge of urinary and reproductive systems in both male and female bodies. It also discusses different pathological conditions related to this system and its relation to biochemistry, microbiology, and pharmacological options.
Course Code and Name	MED 353 Respiratory System (Theory: 4 credit hours; Practical: 6 hours weekly)
Brief Description	This course provides comprehensive macroscopic and microscopic anatomical, physiological and developmental knowledge of the respiratory system. It also discusses different pathological conditions related to this system and its relation to biochemistry, microbiology, and pharmacological options
Course Code and Name	MED 364 Cardiovascular System (Theory: 4 credit hours; Practical: 6 hours weekly)
Brief Description	This course provides comprehensive macroscopic and microscopic anatomical, physiological and developmental knowledge of the cardiovascular system, including pathophysiological changes during diseases and pharmacological and preventive interventions related to it, especially most common heart diseases.
Course Code and Name	Med 408, credit hours (4.5) , practical (6) weeks (6)

Brief Description	This course has 2 parts; during the first; students simulate a medical case with extensive discussion, the second part is meant to practice community medicine in the field, in different primary medical centers; 40 students in each center. Students will participate in clinical studies by collecting, analyzing data, and they will have to present their results in a written format as a research paper at the end of their rotation.
Course Code and Name	Med 409, credit hours (4.5), practical (6) weeks
Brief Description	This course allows a real student – patient communication and contact for the first time, during which students will learn how to build a healthy relationship with their patients, based on scientific approach. During the first week or as called general week, students will have a series of lectures with the following topics: how to take history, general physical examination, lecturers about specific organs and systems, professionalism, communication skills. During the next 4 weeks, students are divided into major groups; each major group is divided into few subgroups, Each major group spends a week in general internal medicine, another week in general surgery, the third week in pediatrics, the fourth week is meant for theoretical and practical exam. Starting second week, students start to take history and physical examination based on their knowledge acquired during the first week, then each small subgroup will discuss each case with an expert clinical physician
Course Code and Name	Med 412, General surgery credit hours (10), practical (9) weeks
Brief Description	It's 9 extensive clinical weeks in general surgery, during which students are exposed to general principles in general surgery, students spend 7 weeks in general surgery and the other 2 weeks in urology, During their rotations, students learn how to evaluate patients during the pre- operative and post - operative periods, they also learn the surgical procedures and their common side effects and complications. Students have daily clinical rounds and they spend time in the outpatient's clinic as well
Course Code and Name	Med 415, clinical psychology, credit hours (3), practical (-) weeks
Brief Description	This course of behavioral science has 2 purposes: It shows you the psychological aspects of medical practice and presents an overview of clinical psychiatry. Clinical psychiatry is supported by sociology and human psychology; it includes behavioral sciences, behavioral biology which include; biochemical, physiological and

	<p>pharmacological behavioral science. It also contains individual behavior (emotions, life cycle, motives, mental disorders, personal relationships) Most of the lecturers are physicians, so its expected that the material presented will have clinical implications</p>
Course Code and Name	Med 416, Forensic medicine, credit hours (2.25), practical (2) weeks
Brief Description	<p>This course is dealing with medico-legal cases like sudden deaths, injuries from accidents, violence, and natural causes. It also covers investigating road traffic accidents, murders, suicidal attempts, sexual crimes. The course also focuses on understanding the pathological reasons for sudden, unexpected death, physical injuries.</p>
Course Code and Name	Med 507, pediatrics, credit hours (9) , practical (9) weeks
Brief Description	<p>This course gives our 5th year medical students the ability to take the history of the common pediatric disorders, and physical examination for the babies. Under the supervision of very experienced clinical staff, our students are taught preventive medicine, i.e vaccinations and nutrition for the babies. During the 9 weeks, they are expected to learn the developmental and behavioral changes according to age of the neonates, babies.</p>
Course Code and Name	Med 510, credit hours (9), practical (9) weeks
Brief Description	<p>During the 9 weeks of clinical rotation, students are provided with the essential, crucial and fundamental knowledge of the common gynecological and obstetrical disorders. Through clinical rounds and seminars. By the end of this rotation; students are expected to appropriately evaluate obs. And gyne. Patients, come up with appropriate differential diagnosis, know with essential laboratory work up to reach the diagnosis. They are also expected to give some prenatal medical advices.</p>
Course Code and Name	Med 540, Psychiatry, credit hours (4.5), practical(4) weeks
Brief Description	<p>It's a 4 weeks rotation in psychiatric clinics in northern Jordan, aims to help our students to evaluate patients with psychiatric disorders, make the students familiar with, know the early signs and symptoms of the common psychiatric disorders.</p>
Course Code and Name	Med 550, Ear Nose and throat, credit hours (2.25), practical (2) weeks
Brief Description	<p>It's a 2 weeks rotation for 5th year medical students, during which students will be introduced to the most common ENT disorders, they will be taught how to perform</p>

	appropriate ENT physical examination, how to diagnose and follow up patients with ENT diseases.
Course Code and Name	Med 553, Orthopedics, credit hours (4.5), practical(4) weeks
Brief Description	It's a 4 weeks clinical rotation for the 5 th year medical students during which our students will be exposed to, and know the common orthopedic disorders, including fractures and their complications, common joint and musculoskeletal disorders. Students are expected to participate in the clinical rounds, outpatient clinics
Course Code and Name	Med 556, Neurology, credit hours (2.25), practical (2) weeks
Brief Description	A 2 weeks clinical rotation for the 5 th year medical students, covering the common diseases in neurology like; strokes and neuromuscular disorders. Students will be taught how to appropriately take full detailed neurological history and perform full neurological examination.
Course Code and Name	Med 557, Neurosurgery, credit hours (2.25), practical (2) weeks
Brief Description	It's a 2 weeks clinical rotation in neurosurgery, with a focus in the common neurosurgical disorders including: congenital deformities, brain tumors, and common head and neck traumas. By the end of this rotation, students are expected to appropriately take a detailed neurosurgical history, performing full neurological physical examination
Course Code and Name	Med 560, ophthalmology, credit hours(2.25), practical (2) weeks
Brief Description	It is a 2 weeks rotation with on-call duties, students participate in clinical rounds, consultations, outpatient's clinic during the morning hours, and lectures in the afternoon. At the end of the rotation; students are expected to know the fundamentals of ophthalmology, common ophthalmological diseases.
Course Code and Name	Med 591, Elective course (1), credit hours (4.5), practical (4.5) weeks
Brief Description	The elective course gives the students the opportunity to expand their knowledge and skills in a subject (should include at least one major – internal medicine, surgery, pediatrics or gynecology and obstetrics, and they may have one minor rotation – ENT, Ophthalmology...) of their choice under direct supervision, in a large academic center of their choice, either in the country or abroad
Course Code and Name	Med 592, Elective course (2), credit hours (4.5), practical (4.5) weeks
Brief Description	The elective course gives the students the opportunity to expand their knowledge and skills in a subject (should include at least one major – internal medicine, surgery, pediatrics or

	gynecology and obstetrics, and they may have one minor rotation – ENT, Ophthalmology...) of their choice under direct supervision, in a large academic center of their choice, either in the country or abroad
Course Code and Name	Med 610, General surgery (2), credit hours (9), practical (8) weeks
Brief Description	An 8 weeks of clinical experience. students will be part of teams looking for inpatients, participate in pre-, and post- operative patients' assessment, they will have the opportunity to visit some operating rooms. Their on-call duties will expose them to more acute cases in emergency setting, they will have the chance to discuss these cases with our staff who will give a feedback and guide them through the history, physical examination, laboratory data interpretation reaching the correct diagnosis and management plan
Course Code and Name	Med 620, Internal medicine (2), credit hours (9), practical (8) weeks
Brief Description	Students will develop and expand their knowledge and skills in the field of internal medicine, during the course, students are expected to cover the common disorders in respiratory, rheumatology, cardiovascular, gastrointestinal and urinary systems. Students will participate in the departmental activities, morning reports, clinical rounds, specialized outpatient clinics and seminars.
Course Code and Name	Med 630, pediatrics (2), credit hours (9), practical (8) weeks
Brief Description	An 8 weeks of clinical rounds, on call duties, during which students will be exposed to different faculty members, in different specialties in different hospitals They will learn to take history, approach patients' family, perform physical examination, actively participate in diagnostic and therapeutic strategies. By the end of this course, students will be familiar with common disorders in pediatrics, will learn the skills to approach patients' families, laboratory data interpretation in common pediatric disorders
Course Code and Name	Med 640, obstetrics and gynecology (2), credit hours (9), practical (8) weeks
Brief Description	Students will expand their acquired knowledge in their 5 th year, with focus on the practical aspects of gynecological and obstetrical diseases, during this course students are expected to deal with common diseases and emergency conditions in the field. Students will participate in the daily activity, including morning reports, clinical rounds, outpatient clinics and seminars.
Course Code and Name	Med 645 family medicine, emergency medicine and accident, credit hours (9), practical (8) weeks

Brief Description

In this course medical students will actively communicate with patients, take history, perform physical examination, participate in therapeutic strategy. Students will be exposed to the common diseases visiting hospitals and health centers.