



## ALMAAREFA MEDICAL COLLEGE BACHELOR OF MEDICINE AND SURGERY PROGRAM (MBBS)

### 1. Introduction

The program of Bachelor of Medicine and Surgery (MBBS) aims at training and qualifying young generations of medical graduates through proper innovative programs in medical education.

### 2. Degree Requirements:

Almaarefa College of Medicine program offers the degree of Bachelor of Medicine and Surgery (MBBS), which requires six years of study and one year of internship (a total of 222 credit hours). The students in the College are required to complete successfully a set of courses that are taken over three phases. The first is a one-year (two semesters) premedical phase. The second is a two and a half-year (five semesters) basic sciences phase, in which students study all body systems in integrated blocks with clinical relevance. The third phase is a two and a half-year (five semesters) phase composed of clinical rotations in the different fields of Medicine and Surgery. One-year (12 months) Internship is required after completion of all courses before official graduation.

### 3. Curriculum Phases

The total program is of seven years duration divided into three phases and a one-year internship as follows:

Premedical Phase: 1st year (two semesters)

Basic Sciences (System Blocks) Phase: 2nd, 3rd, and 4th year (five semesters)

Clerkship Clinical Rotations Phase: 4th, 5th, and 6th years (five semesters)

Clinical Internship: 7th year (12 months)



### 4. Program Study Plan

Students in the first year study preparatory courses that enhance their skills through intense English courses and courses in major scientific disciplines (Physics, Chemistry, and Biology), in addition to general courses that improve their communication and computer skills and Islamic and Arabic language courses. A GPA of 2.5 out of 4, and successful completion of courses in English, Biology, Chemistry, and Physics are pre-requisites for registration of the Foundation Courses in level three (first semester of year II).

The Medicine and Surgery program is taught following the integrated curriculum. The curriculum is taught in blocks centered on body systems with horizontal integration of

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basic medical sciences, and elements of vertical integration of clinical application and clinically related cases.

The pre-clinical phase (levels 3-7) covers all body systems in health and disease. This phase begins with the Foundation Courses (ANAT214, PHSL215, and PATH216) in level 3 which cover general principles of all basic sciences in Medicine. Passing all three courses is a pre-requisite to continue studying body system blocks in the levels to follow.

In the following semesters (levels 4-7) all body systems are covered integrating basic medical sciences (horizontal integration) and some clinical applications and cases (vertical integration). Each body system block integrates related basic sciences (anatomy, histology, embryology, physiology, biochemistry, pathology, microbiology, pharmacology), in addition to radiological anatomy, and clinically relevant information.

Patients' encounter starts in the clinical phase of the curriculum (levels 8-12). Its starts in level 8 which includes therapeutics and introduction to clinical medicine, which are pre-requisite to continue further clinical levels (9-12) which cover all major disciplines of clinical medicine.

### Internship

After successful completion of all previous courses (220 credit hours), students must successfully complete one year (12 months) of internship rotations to complete the graduation requirements for MBBS (Bachelor of Medicine and Surgery).

This year of clinical internship involves rotations in major disciplines of Medicine and Surgery with a choice of elective disciplines at accredited training institutes.

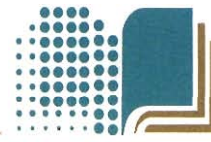


### SUMMARY OF MBBS DEGREE REQUIREMENTS

Requirements	Cr. Hrs.	Description
A: General	13	Islamic (4) Arabic (4), Computer (3), Communication (2)
B: Special	36	English (13), Sciences (14), Psychology (3), Computer for Health (2), Islam and Ethics (4)
C: Major	173	Foundation (16), Preclinical (78), Clinical (79)
<b>Total</b>	<b>222</b>	

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### A: General College Requirements

Course Code	Course Title	Credit Hours
ISLM101	Islamic Culture	2(2+0+0)
ISLM103	Economic System in Islam	2(2+0+0)
ARAB101	Arabic Language-1	2(2+0+0)
ARAB103	Arabic Language-2	2(2+0+0)
COMP100	Computer Essentials	3(1+2+0)
COMM201	Communication Skills	2(2+0+0)
Total		13

### B: Special College Requirements

Course Code	Course Title	Credit Hours
BIOS101	Biostatics	3(3+0+0)
ENGL102	General English II	5(5+0+0)
PHYS101	General Physics	3(2+1+0)
ENGL104	General English III	5(5+0+0)
CHEM101	General Chemistry	4(3+1+0)
BIOL101	General Biology	4(3+1+0)
PYSC201	Introduction to Psychology	3(3+0+0)
ENGL103	English for Health Sciences	3(3+0+0)
COMP201	Computer for Health Sciences	2(1+2+0)
ISLM301	Contemporary Jurisprudential Medical Issues	2(2+0+0)
ETHC411	Ethics and Law for Health Professions	2(2+0+0)
Total		36

The following courses are taught in Arabic as part of the general university requirements:

- ARAB 101: Arabic language and grammar
- ARAB103: Arabic writing skills
- ISLAM101: Islamic culture, principles and ethics
- ISLAM103: The economic system in Islam, compared to capitalism and socialism

The course ISLAM301 is taught in Arabic and deals with contemporary Jurisprudential Medical Issues from an Islamic point of view.



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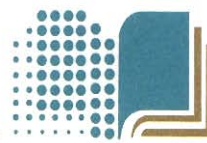


C: Majors College Requirements

Code & Number	Course Title	Cr. Hrs.	Pre-Requisites
ANAT214	Principles of Anatomy, Histology and Embryology	4	ENG104, BIOL101, CHEM101, PHYS101
PHSL215	Principles of Physiology, Biochemistry and Pharmacology	4	ENG104, BIOL101, CHEM101, PHYS101
PATH216	Principles of Pathology, Microbiology and Community Medicine	4	ENG104, BIOL101, CHEM101, PHYS101
MEDU222	Principles of Learning and History of Medicine	4	-
HMIM224	Hemopoietin & Immune Systems	6	ANAT214, PHSL215, PATH216
MSK225	Musculoskeletal System	6	ANAT214, PHSL215, PATH216
RESP312	Respiratory System	6	ANAT214, PHSL215, PATH216
CHP310	Community Health	2	PATH216
CVS322	Cardiovascular System	6	ANAT214, PHSL215, PATH216
RSCH410	Introduction to Health Research	2	CHP310
URIN313	Urinary System	5	ANAT214, PHSL215, PATH216
LAB304	Medical Laboratory	2	
REPR314	Reproductive System	5	ANAT214, PHSL215, PATH216
ENDO412	Endocrine And Metabolism	6	ANAT214, PHSL215, PATH216
RSCH420	Field Health Research	2	RSCH410
CNS413	CNS, Special Senses and Behavior	8	ANAT214, PHSL215, PATH216
GIT323	Gastrointestinal System	6	ANAT214, PHSL215, PATH216
MGEN410	Medical Genetics and Advanced Topics In Medicine	2	
COMM403	Communication Skills with Patients	2	-
ETHC411	Ethics and Law for Health Professions	2	
MIMG422	Medical Imaging and Intervention	2	
MED435	Introduction to Clinical Medicine	6	All System Blocks
THER425	Therapeutics	8	All System Blocks
SKIL402	Clinical Professional skills	2	
ENT531	Otolaryngology	3	MED435, THER425
FAM530	Family Medicine	3	MED435, THER425
ANAS538	Anesthesia	2	MED435, THER425
DERM533	Dermatology	3	MED435, THER425
OPHT532	Ophthalmology	3	MED435, THER425
PSCH534	Psychiatry	4	MED435, THER425
FRNS537	Principles of Forensic Medicine	3	MED435, THER425
EMR539	Emergency	4	MED435, THER425
ORTH536	Orthopedics	4	MED435, THER425
GYN535	Obstetrics & gynecology	6	MED435, THER425
MED 631	Internal Medicine I	6	MED435, THER425
SURG 633	Surgery I	6	MED435, THER425
PED 632	Pediatrics I	6	MED435, THER425
MED 634	Internal Medicine II	6	MED435, THER425
SURG 636	Surgery II	6	MED435, THER425
PED 635	Pediatrics II	6	MED435, THER425
MED701	Internship I	1	All 220 Credit Hours
MED701	Internship II	1	MED701
<b>Total</b>			<b>173</b>



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## Detailed MBBS Graduation Plan by Level

### Year 1

Level 1			
Course Code	Course Title	Cr. Hrs. (L+P/T+F)*	Pre-requisite
BIOS101	Biostatistics	3(3+0+0)	-
COMP 100	Computer Essentials	3(0+3+0)	-
ISLM101	Islamic Culture	2(2+0+0)	-
ARAB101	Arabic Language-1	2(2+0+0)	-
PHYS101	General Physics	3(2+1+0)	-
ENGL102	General English II	5(5+0+0)	-
<b>Total</b>		<b>18</b>	

Level 2			
Course Code	Course Title	Cr. Hrs. (L+P/T+F)*	Pre-requisite
BIOL101	General Biology	4(3+1+0)	-
ARAB103	Arabic Language-2	2(2+0+0)	-
CHEM101	General Chemistry	4 (3+1+0)	-
ENGL103	English for Health Sciences	3(2+1+0)	ENGL102
ENGL104	General English III	5(5+0+0)	ENGL102
<b>Total</b>		<b>18</b>	

\* L. Lecture, P./T. Practical/Tutorial, F. Field

### Year 2

Level 3			
Course Code	Course Title	Cr. Hrs. (L+P/T+F)*	Pre-requisite
MEDU222	Principles of Learning and History of Medicine	4(2+2+0)	-
ANAT214	Principles of Anatomy, Histology and Embryology	4(3+1+0)	ENGL104 BIOL101 CHEM101 PHYS101
PHSL215	Principles of Physiology, Biochemistry and Pharmacology	4(3+1+0)	ENGL104 BIOL101 CHEM101 PHYS101
PATH216	Principles of Pathology, Microbiology and Community Medicine	4(3+1+0)	ENGL104 BIOL101 CHEM101 PHYS101
PYSC201	Introduction to Psychology	3(3+0+0)	-
<b>Total</b>		<b>19</b>	

Level 4			
Course Code	Course Title	Cr. Hrs. (L+P/T+F)*	Pre-requisite
HMIM224	Hemopoietin & Immune Systems	6(4+2+0)	ANAT214 PHSL215 PATH216
ISLM103	Economic System in Islam	2(2+0+0)	-
MSK225	Musculoskeletal System	6(4+2+0)	ANAT214 PHSL215 PATH216
COMM201	Communication Skills	2(2+0+0)	-
<b>Total</b>		<b>16</b>	

### Year 3

Level 5			
Course Code	Course Title	Cr. Hrs. (L+P/T+F)*	Pre-requisite
RESP312	Respiratory System	6(4+2+0)	ANAT214, PHSL215, PATH216
CHP310	Community Health	2(1+1+0)	PATH216
COMP201	Computer for Health Sciences	2(2+0+0)	
ISLM301	Contemporary Jurisprudential Medical Issues	2(2+0+0)	ISLM101
CVS322	Cardiovascular System	6(4+2+0)	ANAT214, PHSL215, PATH216
<b>Total</b>		<b>20</b>	

Level 6			
Course Code	Course Title	Cr. Hrs. (L+P/T+F)*	Pre-requisite
RSCH410	Introduction to Health Research	2(1+1+0)	CHP310
URIN313	Urinary System	5(4+1+0)	ANAT214, PHSL215, PATH216
LAB304	Medical Laboratory	2(0+2+0)	
REPR314	Reproductive System	5(4+1+0)	ANAT214, PHSL215, PATH216
ENDO412	Endocrine And Metabolism	6(5+1+0)	ANAT214, PHSL215, PATH216
<b>Total</b>		<b>18</b>	

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### Year 4

Level 7			
Course Code	Course Title	Cr. Hrs. (L+P+T)	Pre-requisite
RSCH420	Field Health Research	2(2+0+0)	RSCH410
CNS413	CNS, Special Senses and Behavior	8(7+1+0)	ANAT214, PHSL215, PATH216
GIT323	Gastrointestinal System	6(4+2+0)	ANAT214, PHSL215, PATH216
MGEN410	Medical Genetics and Advanced Topics In Medicine	2(2+0+0)	
COMM403	Communication Skills with the Patient	2(0+2+0)	
<b>Total</b>		<b>20</b>	

Level 8			
Course Code	Course Title	Cr. Hrs. (L+P+T)	Pre-requisite
ETHC411	Ethics and Law for Health Professions	2(2+0+0)	
MIMG422	Medical Imaging and Intervention	2(2+0+0)	
MED435	Introduction to Clinical Medicine	6(2+0+4)	All System Blocks
THER424	Therapeutics	8(8+0+0)	All System Blocks
SKILL402	Clinical Professional Skills	2(1+1+0)	ANAT214, PHSL215, PATH216
<b>Total</b>		<b>20</b>	

### Year 5

Level 9			
Course Code	Course Title	Cr. Hrs. (L+P+T)	Pre-requisite
ENT531	Otolaryngology	3(1+1+1)	MED435, THER424
FAM530	Family Medicine	3(1+1+1)	MED435, THER424
ANAS538	Anesthesia	2(1+1)	MED435, THER424
DERM533	Dermatology	3(1+1+1)	MED435, THER424
OPHT532	Ophthalmology	3(1+1+1)	MED435, THER424
PSCH534	Psychiatry	4(2+1+1)	MED435, THER424
<b>Total</b>		<b>18</b>	

Level 10			
Course Code	Course Title	Cr. Hrs. (L+P+T)	Pre-requisite
FRNS537	Principles of Forensic Medicine	3(3+0+0)	MED435, THER424
EMR539	Emergency	4(1+1+2)	MED435, THER424
ORTH536	Orthopedics	4(1+2+1)	MED435, THER424
GYN535	Obstetrics & gynecology	6(2+2+2)	MED435, THER424
<b>Total</b>		<b>17</b>	

### Year 6

Level 11			
Course Code	Course Title	Cr. Hrs. (L+P+T)	Pre-requisite
MED 631	Internal Medicine-1	6(2+1+3)	MED435, THER424
SURG 633	Surgery-1	6(2+1+3)	MED435, THER424
PED 632	Pediatrics - 1	6(2+1+3)	MED435, THER424
<b>Total</b>		<b>18</b>	

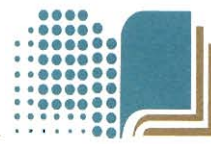
Level 12			
Course Code	Course Title	Cr. Hrs. (L+P+T)	Pre-requisite
MED 634	Internal Medicine-2	6(2+1+3)	MED435, THER424
SURG 636	Surgery -2	6(2+1+3)	MED435, THER424
PED 635	Pediatrics-2	6(2+1+3)	MED435, THER424
<b>Total</b>		<b>18</b>	



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Levels 9, 10, and 11 are interchangeable (groups of students may start at any of these levels)

Level 12 must always be the last level in the clinical phase

### Year 7 - Internship

After completion of all 220 credit hours, students are required to complete one year of internship/practical training in major disciplines of Medicine and Surgery, before they are allowed to practice. The internship year is counted as 2 credit hours but has no grades and are not included in the calculation of the GPA for students.

Level 11			
Course Code	Course Title	Cr. Hrs. (L+P+T)	Pre-requisite
MED701	Internship I	1	220 Cr Hrs

Level 12			
Course Code	Course Title	Cr. Hrs. (L+P+T)	Pre-requisite
MED 702	Internship II	1	220 Cr. Hrs



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