

**Faculty of Medicine**

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## **DEPARTMENTS**

1. Anatomy
2. Medical Biochemistry
3. Pathology
4. Microbiology
5. Ear, Nose and Throat
6. Community Medicine
7. Obstetrics and Gynaecology
8. Surgery
9. Internal Medicine
10. Physiology
11. Medical Parasitology
12. Histology
13. Clinical Pharmacology
14. Ophthalmology
15. Forensic Medicine & Toxicology
16. Dermatology & Venerology
17. Pa7ediatics (including Clinical Genetics)
18. Anaesthesiology (including Critical Medicine & Intensive Care)

## **HISTORY**

The Faculty of Medicine was established in 1995. It started with 30 students. This number has since increased reaching up to 60 students in recent years. The first Bachelor Degree in Medicine and Surgery was awarded in 2001.

In 1998, a collaborative agreement between BAU and four hospitals namely the Hammoud, Makassid, Sahel, as well as Dar El Ajaza was established. This agreement provided our students with venues for clinical training inline with the undergraduates and postgraduates clinical training programs. More recently, in 2007 the Rafik Hariri University Hospital became the 5<sup>th</sup> hospital to join this collaboration.

The Faculty of Medicine strives for up-to-date programs and specializations. In 2004, specialized and postgraduate studies were launched in the following branches: Internal Medicine, Pediatrics, Neurology and Psychology.

In 2005, the first Master Degree in both "Ophthalmology" and "Surgery and Burn" Degrees was awarded. The Credit hours system was applied also in 2005 across the entire faculty thus offering students flexibility and simplicity in course selection and schedules.

Furthermore, in 2006, more specialized and postgraduate programs were added to the curriculum including Obstetrics & Gynaecology, ENT, Ophthalmology, Gastroenterology, and Anaesthesia.

## **MISSION**

Throughout its undergraduate and postgraduate medicinal programs, the faculty seeks to:

- provide the community with highly qualified, competent and ethical physicians who can efficiently cope with the rapid changes in the medical practice and research in the 21<sup>st</sup> century;
- prepare our students for a successful transition from medical students to doctors by providing up-to-date knowledge and skills required for professional distinction at an international level;
- utilize advanced educational and training programs with emphasis on clinical training;
- highlight the importance of doctor-patient relationship; and

- promote continuous learning as well as personal and professional developments in our graduates.

## **VISION**

The Faculty of Medicine has a strategic vision to promote professional development, innovation and excellence in medical education that conforms to international standards as well as emphasizes ethics and worldwide exchange of educational theories and techniques.

## **UNDERGRADUATE PROGRAMS OFFERED DEGREES**

The Faculty of Medicine offers a Bachelor Degree in Medicine and Surgery (MBBCh) in the following specializations:

1. Anatomy
2. Medical Biochemistry
3. Pathology
4. Microbiology
5. Ear, Nose and Throat
6. Community Medicine
7. Obstetrics and Gynaecology
8. Surgery
9. Internal Medicine
10. Physiology
11. Medical Parasitology
12. Histology
13. Clinical Pharmacology
14. Ophthalmology
15. Forensic Medicine & Toxicology
16. Dermatology & Venerology
17. Pediatrics (including Clinical Genetics)
18. Anaesthesiology (including Critical Medicine & Intensive Care)

## **PROGRAM DESCRIPTION**

The standard duration of study for the Bachelor Degree in Medicine and Surgery (MBBCh) is 12 semesters and the degree requirements consist of 215 Credit hours taken as follows:

- Mandatory Courses: 201 Cr.
- General University Requirements: 14 Cr. Divided into:
  - \* University Mandatory Courses: 7 Cr.
  - \* University Elective Courses: 7 Cr.

It is a requirement for residency and postgraduate studies registration, that all Lebanese students must successfully complete 12 months of hospital rotations as an internship at the affiliated hospitals

The Bachelor Degree in Medicine and Surgery (MBBCh) program is divided into 3 phases with specific objectives that ensures basic sciences knowledge and clinical competence:

**Semesters 1 to 4** are dedicated to study of four basic medical science courses as an introduction to the science and practice of medicine emphasizing on normal structure and function. The four semester include courses in Biochemistry, Gross Anatomy, Embryology, Histology, Physiology of Organ Systems. These courses are pre-requisites for the next two semesters, in addition to behavioral Sciences and medical ethics.

**Semesters 5 & 6** introduces the student to the basic concepts of abnormal human biology as well as diseases and are devoted to the study of Pathology, Medical Microbiology and Immunology, clinical Pharmacology and Parasitology. These

semesters also expose the students to patient contact and present an introduction to the clinical practice that is initiated by problem solving. They also include some clinical applications that provide some integration of disease and conditions related to the subjects taught. These semesters are pre-requisites for the next six semesters, except the two courses: COMM 307 & MEDC 308.

*Semesters 7 to 12* are dedicated to clinical learning, emphasizing the core clerkships including rotations in the following departments: Internal Medicine with its subspecialties, General and Special Surgery, Ophthalmology, Obstetrics and Gynecology, Otorhinolaryngology, Pediatrics, Forensic Medicine and Toxicology, as well as Community Medicine. By the end of this phase, the student will be able to critically evaluate patient problems with relevant and appropriate history and examination and show logical reasoning and decision-making on options for management of common conditions.

# Bachelor of Medicine & Surgery

## Curriculum

### (215 Credit Hours)

| <b>First Semester</b>  |     |   | <b>Credit</b> |
|------------------------|-----|---|---------------|
| ANAT                   | 101 | Human Anatomy and Embryology including Biology I  | 5             |
| PHYL                   | 103 | Medical Physiology including Biophysics I         | 5             |
| BIOC                   | 105 | Medical Biochemistry I                            | 3             |
| MICA                   | 107 | Histology I                                       | 3             |
|                        |     | Elective (General) <sup>1</sup>                   | 2             |
|                        |     |   | -----         |
|                        |     |   | 18            |
| <b>Second Semester</b> |     |   |               |
| ANAT                   | 102 | Human Anatomy and Embryology including Biology II | 5             |
| PHYL                   | 104 | Medical Physiology including Biophysics II        | 4             |
| BIOC                   | 106 | Medical Biochemistry II                           | 3             |
| MICA                   | 108 | Histology II                                      | 3             |
|                        |     | Elective (General) <sup>1</sup>                   | 2             |
|                        |     |   | -----         |
|                        |     |   | 17            |
| <b>Third Semester</b>  |     |   |               |
| ANAT                   | 201 | Human Anatomy and Embryology III                  | 5             |
| PHYL                   | 203 | Medical Physiology III                            | 5             |
| BIOC                   | 205 | Medical Biochemistry III                          | 3             |
| MICA                   | 207 | Histology III                                     | 3             |
|                        |     | Elective (General) <sup>1</sup>                   | 2             |
|                        |     |   | -----         |
|                        |     |   | 18            |
| <b>Fourth Semester</b> |     |   |               |
| ANAT                   | 202 | Human Anatomy and Embryology IV                   | 5             |
| PHYL                   | 204 | Medical Physiology IV                             | 5             |
| BIOC                   | 206 | Medical Biochemistry IV                           | 3             |
| MICA                   | 208 | Histology IV                                      | 3             |
| MEDC                   | 113 | Behavioral & Medical Ethics                       | 1             |
|                        |     | Elective (General) <sup>1</sup>                   | 2             |
|                        |     |   | -----         |
|                        |     |   | 19            |
| <b>Fifth Semester</b>  |     |   |               |
| PATH                   | 301 | Pathology I                                       | 5             |
| PHRM                   | 303 | Clinical Pharmacology I                           | 4             |
| MICR                   | 305 | Clinical Microbiology and Immunology              | 6             |
| COMM                   | 307 | Community Medicine I                              | 1             |
|                        |     | Elective (General) <sup>1</sup>                   | 2             |
|                        |     |   | -----         |
|                        |     |   | 18            |

| <b>Sixth Semester</b>    |     |   | <b>Credit</b> |
|--------------------------|-----|---|---------------|
| PATH                     | 302 | Pathology II                              | 5             |
| PHRM                     | 304 | Clinical Pharmacology II                  | 5             |
| PARA                     | 306 | Medical Parasitology                      | 5             |
| MEDC                     | 308 | Basic Clinical Skills I                   | 1             |
|                          |     | Elective (General) <sup>1</sup>           | 2             |
|                          |     |   | -----         |
|                          |     |   | 18            |
| <b>Seventh Semester</b>  |     |   |               |
| ORLG                     | 401 | Otorhinolaryngology                       | 3             |
| FMTX                     | 405 | Forensic Medicine and Clinical Toxicology | 5             |
| MEDC                     | 407 | Basic Clinical Skills II                  | 2             |
| COMM                     | 409 | Community Medicine II                     | 5             |
|                          |     | Elective (General) <sup>1</sup>           | 2             |
|                          |     |   | -----         |
|                          |     |   | 17            |
| <b>Eighth Semester</b>   |     |   |               |
| OPHT                     | 402 | Basic Ophthalmology                       | 4             |
| OBGY                     | 404 | Obstetrics & Gynecology I                 | 5             |
| INTM                     | 406 | Internal Medicine I                       | 5             |
| SURG                     | 408 | Surgery I                                 | 5             |
|                          |     |   | -----         |
|                          |     |   | 19            |
| <b>Ninth Semester</b>    |     |   |               |
| PEDT                     | 501 | Pediatric Medicine I                      | 5             |
| PHRM                     | 505 | Clinical Pharmacology III                 | 1             |
| INTM                     | 503 | Internal Medicine II                      | 5             |
| SURG                     | 507 | Surgery II                                | 8             |
|                          |     |   | -----         |
|                          |     |   | 19            |
| <b>Tenth Semester</b>    |     |   |               |
| PEDT                     | 502 | Pediatric Medicine II                     | 7             |
| INTM                     | 504 | Internal Medicine III                     | 2             |
| ANES                     | 506 | Anaesthesia and Critical Care Medicine    | 1             |
| SURG                     | 508 | Surgery III                               | 2             |
| RADI                     | 510 | Radiology and Imaging                     | 1             |
| OBGY                     | 512 | Obstetrics & Gynecology II                | 5             |
|                          |     |   | -----         |
|                          |     |   | 18            |
| <b>Eleventh Semester</b> |     |   |               |
| INTM                     | 601 | Internal Medicine IV                      | 3             |
| PEDS                     | 603 | Pediatric Surgery                         | 3             |
| PLAS                     | 605 | Plastic Surgery                           | 3             |
| CARD                     | 607 | Cardiology                                | 3             |
| PULD                     | 609 | Pulmonary Disease                         | 3             |
| VASC                     | 611 | Vascular Surgery                          | 3             |
|                          |     |   | -----         |

| <b>Twelfth Semester</b> |     |                        | <b>Credit</b> |
|-------------------------|-----|------------------------|---------------|
| INTM                    | 602 | Internal Medicine V    | 2             |
| SURG                    | 604 | Surgery IV             | 2             |
| CATS                    | 606 | Cardiothoracic Surgery | 2             |
| NEUS                    | 608 | Neurosurgery           | 1             |
| ORTH                    | 610 | Orthopedic Surgery     | 2             |
| UROS                    | 612 | Urosurgery             | 1             |
| DERM                    | 614 | Dermatology            | 2             |
| INFD                    | 616 | Infection Disease      | 2             |
| NUPS                    | 618 | Neuropsychiatry        | 2             |
|                         |     |                        | -----         |
|                         |     |                        | 16            |

<sup>1</sup> A total of 14 credits is required as General University Requirement; 7 credits are selected from the University Mandatory courses list including CMPG 001 (2Cr.), ARAB 001 (2 Cr.), ENGL 001 (2 Cr.), LAWS 001 (1 Cr.) and another 7 credits are selected from the University Elective courses list.

### **ELECTIVE COURSES**

#### **University Requirement Elective Course (1 Cr.):**

PHYL 001 Introduction to Physiology.

# **POSTGRADUATE PROGRAMS OFFERED DEGREES**

The Faculty of Medicine offers Diplomas, Master and MD Degrees in the following specializations:

## **DIPLOMAS**

Cardiology; Chest Diseases; Community Medicine and Public Health; Family Medicine; Industrial Medicine; Dermatology, Venereology & Andrology; Internal Medicine; Neuropsychiatric; Childhood Neurological Disability and Handicap; Ophthalmology; Orthopedic & Traumatology; Parasitology; Pediatrics; Physical Medicine; Radiodiagnosis; Tropical Medicine, Gastroenterology & Geriatric Medicine.

## **MASTER & MD DEGREES**

Anaesthesia & Surgical Intensive Care; Anatomy; Cardiology; Cardiothoracic Surgery; Chest Diseases; Clinical Pathology; Clinical Pathology in Community Medicine & Public Health; Family Medicine; Industrial Medicine; Critical Care; Dermatology, Venereology & Andrology; Emergency Medicine; Forensic Medicine & Clinical Toxicology; General Surgery; Plastic Surgery; Genitourinary Surgery; Histology & Cell Biology; Human Anatomy & Embryology; Internal Medicine; Hematology; Medical Biochemistry; Medical Microbiology & Immunology; Neuropsychiatric; Neurosurgery; Obstetrics & Gynaecology; Oncology; Ophthalmology; Orthopedic & Traumatology; Otorhinolaryngology; Audiology; Parasitology; Phoniatics; Medical Parasitology; Pathology; Medical Genetics; Pediatrics; Pharmacology; Physical Medicine, Rheumatology & Rehabilitation; Medical Physiology; Radio Diagnosis; Tropical Medicine, Gastroenterology & Geriatric Medicine.

## **PROGRAM DESCRIPTION**

### **DIPLOMAS**

The duration of study for a Diploma Degree is 3 semesters (minimum) and the credit hour requirements for all Diploma specializations consist of 30 Credit hours taken as follows:

- Mandatory Courses: 28 - 29 Cr.
- Departmental Courses: 1 - 2 Cr.

### **MASTER DEGREES**

The duration of study for the Master Degree in both the Clinical Specialization and Basic Medical Sciences is 4 semesters (minimum) and the credit hour requirements for all Master specializations consist of 46 Credit hours taken as follows:

- Mandatory Courses: 37 Cr.
- Departmental Courses: 3 Cr.
- Thesis: 6 Cr.

The Master Degree program involves attending lectures, clinical rounds/training, attending operating room, scientific activities, practical studies, and thesis. Clinical Specializations, however, requires completing one year (minimum) of hospital residency in the proposed field of specialization.

### **MD DEGREES**

The duration of study for the MD Degree is 6 semesters (minimum) and the credit hour requirements for all specializations consist of 54 Credit hours taken as follows:

- Mandatory Courses: 40 -41 Cr.
- Departmental Courses: 4-5 Cr.
- Thesis: 9 Cr.

The MD program consists of lectures, workshops, practical classes and clinical training, application & field training, hospital rounds, conferences, self education programs, etc.

# POSTGRADUATE SPECIALISTS

- Diploma Degree in Cardiology (30 Credit Hours).
- Diploma Degree in Chest Diseases (29 Credit Hours).
- Diploma Degree in Community Medicine & Public Health (31 Credit Hours).
- Diploma Degree in Family Medicine (29 Credit Hours).
- Diploma Degree in Industrial Medicine (30 Credit Hours).
- Diploma Degree in Dermatology, Venereology and Andrology (30 Credit Hours).
- Diploma Degree in Internal Medicine(30 Credit Hours).
- Diploma Degree in Neuropsychiatric (30 Credit Hours).
- Diploma Degree in Ophthalmology (30 Credit Hours).
- Diploma Degree in Orthopedic and Traumatology (30 Credit Hours).
- Diploma Degree in Parasitology (30 Credit Hours).
- Diploma Degree in Pediatrics (30 Credit Hours).
- Diploma Degree in Childhood Neurological Disability & Handicap (35 Credit Hours).
- Diploma Degree in Physical Medicine (30 Credit Hours).
- Diploma Degree in Radio, Diagnosis (30 Credit Hours).
- Diploma Degree in Tropical Medicine (32 Credit Hours).
- Master Degree in Anaesthesia & Surgical Intensive Care (46 Credit Hours).
- Master Degree in Chest Diseases (46 Credit Hours).
- Master Degree in Clinical Pathology (49 Credit Hours).
- Master Degree in Community Medicine & Public Health (46 Credit Hours).
- Master Degree in Community Family Medicine (46 Credit Hours).
- Master Degree in Industrial Medicine (46 Credit Hours).
- Master Degree in Critical Care (43 Credits Hours),
- Master Degree in Dermatology, Venereology & Andrology (48 Credit Hours).
- Master Degree in Emergency Medicine (46 Credit Hours).
- Master Degree in Gastroenterology (47 Credits Hours),
- Master Degree in Forensic Medicine & Clinical Toxicology (46 Credit Hours).
- Master Degree in General Surgery (46 Credit Hours).
- Master Degree in Genitourinary Surgery (46 Credit Hours).
- Master Degree in Histology & Cell Biology (46 Credit Hours).
- Master Degree in Human Anatomy & Embryology (46 Credit Hours).
- Master Degree in Internal Medicine (46 Credit Hours).
- Master Degree in Medical Biochemistry (50 Credit Hours).
- Master Degree in Medical Microbiology & Immunology (46 Credit Hours).
- Master Degree in Neuropsychiatric (47 Credit Hours).
- Master Degree in Neurosurgery (46 Credit Hours).
- Master Degree in Obstetrics & Gynaecology (46 Credit Hours).
- Master Degree in Oncology (40 Credit Hours).
- Master Degree in Ophthalmology (50 Credit Hours).
- Master Degree in Orthopedic & Traumatology (45 Credit Hours).
- Master Degree in Otorhinolaryngology (46 Credit Hours).
- Master Degree in Medical Parasitology (43 Credit Hours).
- Master Degree in Medical Genetics (47 Credit Hours).
- Master Degree in Pediatrics (46 Credit Hours).
- Master Degree in Pharmacology (46 Credit Hours).
- Master Degree in Physical Medicine, Rheumatology & Rehabilitation (47 Credit Hours).

- Master Degree in Medical Physiology (46 Credit Hours).
- Master Degree in Radio Diagnosis (46 Credit Hours).
- Master Degree in Tropical Medicine (48 Credit Hours).
- Master Degree in Geriatric Medicine (44 Credit Hours).
- Doctorate Degree in Geriatric Medicine (54 Credit Hours).
- Doctorate Degree in Anaesthesia & Surgical Intensive Care (54 Credit Hours).
- Doctorate Degree in Cardiology (53 Credit Hours).
- Doctorate Degree in Cardiothoracic Surgery (54 Credit Hours).
- Doctorate Degree in Chest Diseases (54 Credit Hours).
- Doctorate Degree in Clinical Pathology (54 Credit Hours).
- Doctorate Degree in Community Medicine & Public Health (54 Credit Hours).
- Doctorate Degree in Industrial Medicine (53 Credit Hours).
- Doctorate Degree in Critical Care (55 Credit Hours).
- Doctorate Degree in Dermatology, Venereology & Andrology (54 Credit Hours).
- Doctorate Degree in Forensic Medicine & Clinical Toxicology (54 Credit Hours).
- Doctorate Degree in General Surgery (54 Credit Hours).
- Doctorate Degree in Plastic Surgery (54 Credit Hours).
- Doctorate Degree in Vascular Surgery (54 Credit Hours).
- Doctorate Degree in Genitourinary Surgery (51 Credit Hours).
- Doctorate Degree in Histology & Cell Biology (54 Credit Hours).
- Doctorate Degree in Human Anatomy & Embryology (54 Credit Hours).
- Doctorate Degree in Internal Medicine (54 Credit Hours).
- Doctorate Degree in Hematology (54 Credit Hours),
- Doctorate Degree in Medical Biochemistry (54 Credit Hours),
- Doctorate Degree in Medical Microbiology & Immunology (54 Credit Hours).
- Doctorate Degree in Neurology (54 Credit Hours).
- Doctorate Degree in Psychiatric (54 Credit Hours).
- Doctorate Degree in Neurosurgery (54 Credit Hours).
- Doctorate Degree in Obstetrics & Gynaecology (54 Credit Hours).
- Doctorate Degree in Clinical Oncology (54 Credit Hours).
- Doctorate Degree in Orthopedic (55 Credit Hours).
- Doctorate Degree in Otorhinolaryngology (54 Credit Hours).
- Doctorate Degree in Audiology (54 Credits Hours).
- Doctorate Degree in Phoniatics (54 Credit Hours),
- Doctorate Degree in Medical Parasitology (53 Credit Hours).
- Doctorate Degree in Pathology (54 Credit Hours).
- Doctorate Degree in Pediatrics (54 Credit Hour).
- Doctorate Degree in Pharmacology (54 Credit Hours).
- Doctorate Degree in Physical Medicine (56 Credit Hours).
- Doctorate Degree in Gastroenterology (60 Credit Hours).
- Doctorate Degree in Medical Physiology (54 Credit Hours).
- Doctorate Degree in Radio Diagnosis (54 Credit Hours).
- Doctorate Degree in Tropical Medicine (54 Credit Hours).