Undergraduate Catalogue 2017

Faculty of

MEDICINE

Faculty Administration

Dean	Prof. Najlaa Mashaal
Assistant Dean	Associate Prof. Mohamad Houri
Executive Administrator	Mrs. Jana Adada

Academic Staff

Department of Basic Medical Sciences

Chairperson	Prof Youssef Hatem
Professors	Sayed Soulayman, Ramadan El Gharabawi, Rajaee Fahmi Mohamad Alsaidi
Assistant professors	Dr. Ruzanna Petrosian, Dr. Bilal Azakir
Lecturer	Nariman Salem

Department of Clinical Medical Sciences

Chairperson	Prof Azza Abou Elnaga
Professors	Medhat Anwar, Hesham Elshal, Mona Aboul-Seoud Mahmoud Mahfouz, Azza Hassan
Associate professors	Mohamad Houri, Ahmed Maarouf
Senior Lecturers	Hala Ahmadia, Nadia Jradi, Issam Shaarani
Lecturer	Salah Malas

History

The Faculty of Medicine, Beirut Arab University (FOM_BAU) was established in 1995. Its journey towards pursuing international standards in medical education is a continuous process of experiences, reflection, concept development, evaluation, improvement & change.

The Faculty offers a Bachelor Degree in Medicine & Surgery (M.B.B.Ch), in addition, the Faculty provides Master & Doctorate Degrees in some Basic & Clinical Medical specialties. Moreover, 24 residency & fellowship programmes are running in collaboration with many affiliated hospitals in Lebanon. At present, 491 students are enrolled in the programme & 805 already graduated.

The faculty has affiliations with many distinguished hospitals in Lebanon; in Beirut, it is affiliated with Makassed General Hospital, Dar El Ajaza Al Islamia Hospital, Najjar Hospital & Military Hospital. The affiliation with hospital extends to cover Lebanese regions outside Beirut; Hammoud Hospital University Medical Center & Saida Governmental Hospital at Saida city, Rayak & Beqaa hospitals in the region of Beqaa, Mazloum, Alnini, & Haykel Hospitals in the city of Tripoli. In addition, the faculty has agreement with Notre Dame du Liban Hospital in Junia at the north of Beirut. The agreements with these hospitals provide students with venues for undergraduate clinical training & postgraduate professional residency & fellowship programmes.

At its beginning FOM_BAU adopted the six years discipline-based programme on a scholar-year basis; afterwards the same curriculum was adjusted to comply with the credit hour system adopted by the University in the year 2005, which was intended to give students more flexibility & simplicity to select their courses & adjust their schedules.

With the rapid & fundamental changes the medical education field is undergoing worldwide at all levels, FOM_BAU found its way to move from traditional curriculum based on disciplines & teacher centered learning policy to an outcomes & competencies based curriculum, with the adoption of an integrated curriculum. Accordingly, different strategies of authentic learning are implemented including Problem based Learning (PBL), Team-Based Learning (TBL) & Case Based Learning. Basic Medical Sciences & Clinical Sciences are integrated from day one. Inculcating a research culture all through the different phases of the curriculum is one of the key features of its program.

The implementation of the "Outcome Based Integrated Curriculum" started since the academic year 2010/2011. The first group of students of this reformed programme graduated on June 2016.

Organizational Structure

The Faculty of Medicine constitutes the following two departments:

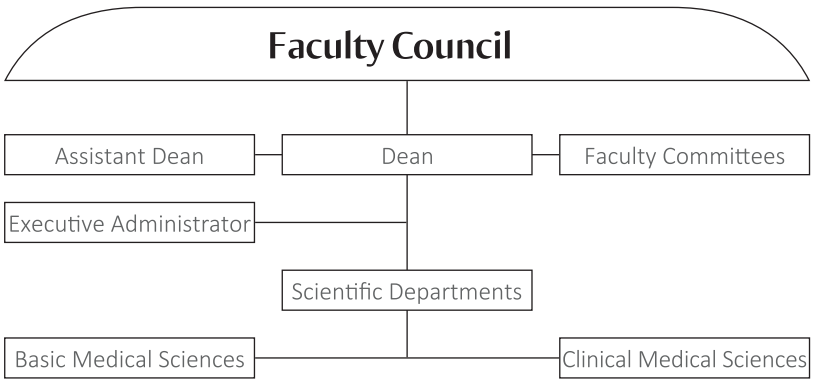
1- Department of Basic Medical Sciences

It includes: Anatomy & Histology, Medical Physiology, Medical Biochemistry, Basic & Surgical Pathology, & Clinical Pharmacology.

2- Department of Clinical Medical Sciences

It includes: Medicine, Surgery, Pediatric Medicine, Obstetrics & Gynecology, & Community & Preventive Medicine.

The organizational chart of the Faculty is as follows:



Vision

The Faculty of Medicine Beirut Arab University strives to be a recognized regional centre that provides high quality Medical Education & Training. The Faculty will be one of the main providers of medical programmes which contribute to the Lebanese community sustainable development, & respond to its health need with the highest standard of ethics & professionalism.

Mission

The Faculty of Medicine Beirut Arab University will distinguish itself in the full spectrum of Medical Education programmes for undergraduates, post-graduates & continuing professional development. It will graduate highly professional & trustable physicians, who are capable of being lifelong learners. A research culture will be embedded among its students who will contribute to the generation of new knowledge & its consequent translation to patient's care. The Faculty will strive to implement this mission with the highest professional & ethical standards in response to the community health needs which guide its programme' development & educational research, strategies & services.

Faculty Values

- Devotion
- Integrity
- Accountability

Objectives

- To provide a high quality educational programme that fulfills the needs of the community & meets high international quality standards
- To prepare students for independent & life-long learning through mastery of a wide range of transferable skills
- To prepare students to educate the public about health promotion, disease prevention & control
- To prepare students to provide & operate quality health care systems
- To conduct research within a stimulating & supportive environment
- To provide society with high quality medical expertise

Academic Program

The Faculty offers a Bachelor Degree in Medicine & Surgery (MBBBCh) where the standard duration of the program is six years delivered in 12 semesters. The program is characterized by being student centered, outcome competency based, integrated, systems-based, & provide early introduction to clinical practice.

Admission Requirements

To be accepted for an undergraduate degree, applicants must:

- Hold the official Lebanese Secondary School Certificate in a branch relevant to the scientific medical field, or an official equivalent;
- Successfully pass an entrance exam to measure the level of proficiency in English Language, an aptitude test (thinking skills), general knowledge, scientific knowledge (Biology, Physics, Chemistry), as well as attend a personal interview.

Program Outcomes

The medical programme is based on outcome competencies & the medical graduate profile (MGF). The outcome competencies & related curriculum learning objectives were benchmarked with the Accreditation Council for Graduate Medical Education (ACGME), however, the content & delivery of the programme was adapted to the culture, beliefs & health care system in Lebanon.

Medical Graduate Profile (MGP) - Curriculum Outcome Competencies

The Medical Graduate Profile (MGP) describes the outcome competencies which the graduate should have acquired by the end of the six-year medical programm. The MGP competencies are organized around six domains (ACGME):

1. Population & Patient Care
2. Essential Medical Knowledge
3. Evidence & Practice-Based Learning
4. Communication Skills
5. Ethics & Professionalism
6. Health Care System & Cost Effective Practice

Curriculum competencies & related objectives are organized around four themes

Theme I: Professional Development
Theme II: Medicine & Society
Theme III: Foundations of Medicine
Theme IV: Clinical Practice of Medicine
Although all four themes are running throughout the medical program, they are not of equal weight, nor of constant weight. The curriculum outcome competencies & related objectives are distributed along the themes & reflected in themes objectives, contents, learning & teaching approaches & the training environment.

Career Opportunities

- Working as **Attending or Consultant** in hospitals, specialized centers & private clinics, primary health care centers, schools, national & international health organizations after completing the **residency & / or fellowship programs** & becoming a qualified specialist in the field.
- Working as **Instructors** at universities after completing the internship year. In addition
- A general medical practitioner can apply to Postgraduate Studies: **Master & PhD Degrees.**

Program Overview

The standard duration of the Medical curriculum is six years delivered in 12 semesters followed by one year of internship. The curriculum comprises three phases:

- Phase I:
  Pre-clerkship Phase (Semesters 1 to 6), which includes the study of nine modules. Each module integrates basic medical sciences with each other & with some clinical presentations through different learning methods.

• Phase II:

Clerkship Phase (Semesters 7 to 10) which includes clinical rotations in Medicine & medical subspecialties, Surgery & surgical subspecialties, Paediatrics, Obstetrics & Gynaecology, & Family Medicine. The medical programme in this phase focuses on bed side hospital training & students are learning professional skills in clinical rotations.

• Phase III:

Pre internship Phase (Semesters 11 & 12) which includes clinical rotation in major medical branches together with clinical elective courses. In this phase, the students mostly function as sub-interns & they are responsible for their own patients under supervision.

Graduation Requirements

To receive a Bachelor Degree in Medicine & Surgery (MBBBCh) a student must complete 204 credit hours with minimum cumulative Grade Point Average (CGPA) of 2.0 + International Computer Driving License (ICDL). The following table summarizes the number of credits required for Bachelor granting program at the Faculty of Medicine.

Program Requirements	
I. University Requirements	**Credits**
* University Mandatory Courses	**5**
* University Elective Courses	**9**
II. Faculty Requirements	**Credits**
Major Core Courses	**190**
Total	**204**

* A total of 14 credits are required as University Requirements:
- 5 credits are University Mandatory Courses: ARAB 001 (2Cr.), ENGL 001 (2Cr.), & BLAW 001 (1Cr.)
- 9 credits are selected from the list of the University Elective Courses; these are referred to as Student Selected Components (SSC) in the study plan.

N.B: Descriptions of the university requirement courses are shown in the introduction section of this catalogue.

Assessment Strategy

• **Characteristics of the Assessment system:**

- Assessment system is developed in order to match the integrated curriculum (alignment).
- Assessment in all phases is based on annual scoring.
- Continuous Assessment takes place during each module of the three phases.
- Comprehensive assessments checking the acquisition of intended learning outcomes of each phase takes place at the end of Year Three & end of Year Six (the critical gates).
- The International Foundations of Medicine Examination (IFOM) are made compulsory. All students at the end of phase I (Year 3) have to take the IFOM I in (Basic Medical Sciences) & all students at the end of phase III (Year 6) have to take the IFOM II (Clinical Sciences).

• **General Rules:**
- Results will be presented as module GPA & end of year YGPAs.
- Successful completion of all modules in each year is a prerequisite for the following year.
- Students who fail in one module or who have obtained an YGPA of less than 2.00 will have a re-sit exam in one or more modules at the beginning of the next academic year.
- Withdrawal: Students failing to attain a pass (70%) after the re-sit exam will be asked to repeat the year. If he/she fails at the end of the repeated year, he/she will be withdrawn from the medical program. He/she will be given the option to transfer to another program in the University.

• **Exam Guidelines:**
- Continuous assessment is adopted in each module.
- Assessment of knowledge is based on Multiple Choice Questions (MCQs), Short Answer Questions (SAQ) & Modified Essay Questions (MEQ).
- Assessment of skills level is assessed using Objective Structured Practical & Clinical Examinations ('OSPE' & 'OSCE').
- Supervisors' evaluation of student performance is used in assessing the student's community based activities & performance in the clerkship.

• **Comprehensive Clerkship Entry Exam**
The International Foundations of Medicine Examination Comprehensive Clerkship Entry Exam (Basic Medical Sciences)
- Successful completion & passing all modules of year 3 is a requirement to enter IFOM I Exam.
- The student is not permitted to enter the IFOM I unless his/her CGPA is above 2.
- Re-sit Examination: Students scoring less than 70% are eligible to sit for a re-sit examination before the next academic year.
- Repeat: Students scoring less than 70% in the re-sit examination shall repeat year 3.
- Withdrawal: Students failing to attain a pass (70%) at the end of the repeated year will be withdrawn from the medical program. He/she will be given the option to transfer to another program in the University.

• **Comprehensive MBBCh Exit Exam**
The International Foundations of Medicine Examination Comprehensive MBBBCh Exit Exam (Clinical Sciences)
- The student is not permitted to enter the IFOM II unless his/her CGPA is above 2.
- Successful completion & passing of all the Clerkship Rotations is a requirement for graduation.
- Re-sit Examination & withdrawal: Students who fail to attain the passing score will have a re-sit examination, in December of the same calendar year. Further re-sits may be permitted in following June & December, as long as the student does not exceed the number of years allowable to remain in the Program. (50% of the total duration of the Program, i.e. 3 years with a total of 6+3=9 years).

Modules

Modules			Number of Credit hours
FABL	201	Fabrics of life	5
LOCO	202	Locomotor System	9
COHD	203	Concepts of Health & Disease	7
HEMA	204	Hematology Unit	3
CARD	205	Cardiovascular System	7
GITN	206	Gastrointestinal Tract & Nutrition	7
RESP	207	Respiratory System	5
RENR	208	Endocrine & Reproduction I	7
USRP	301	Urinary System & Reproduction II	6
PBGS	302	Problem Based Group Study I	7
NESC	303	Neurosciences	8
PBGS	304	Problem Based Group Study II	7
REPG	306	Research Project	4
OBGY	401	Obstetrics & Gynecology	9
SURG	402	Surgery	9
PEDT	403	Pediatrics	9
INTM	404	Medicine	9
FMER	501	Family Medicine	9
PEDM	502	Medicine & Pediatrics	9
ORUR	503	Surgery Subspecialties	9
CAPU	504	Cardiology & Pulmonary diseases	9
NEPS	601	Neurology & Psychiatry	9
SMED	602	Medicine & Surgery	9
SUGE	603	Surgical Subspecialties Elective	9
INSE	604	Medical Subspecialties Elective	9

Description of Modules

PHASE I – YEAR ONE

FABL 201 FABRICS OF LIFE (5Cr.)

This module introduces students to molecular, genetic & histological basis of medicine & general embryology of human body. The students study the cytology & the four basic tissues of the body, the biochemical structure of carbohydrates, lipids, proteins, & nucleic acids & the molecular biological & genetic principles essential for understanding modern medicine.

LOCO 202 LOCOMOTOR SYSTEM (9Cr.)

This module introduces students to the structure & function, the general, special & applied aspects of bones, muscles, nerves & joints of the upper & lower limbs. The students also study medical imaging of normal specimen & applied anatomy in addition to the study of the peripheral & autonomic nervous system & anti-inflammatory drugs. The module involves clinical skill lab training emphasizing on surface anatomy. Also, students learn how to conduct a medical interview with special emphasis on general communication skills, active listening, speaking strategies, dialogue strategies etc. The module involves demographic aspects in relation to disease process including: population pyramids, rates of population growth & population dynamics.

COHD 203 CONCEPTS OF HEALTH & DISEASE (7Cr.)

This module introduces students to the socio-economic context of health & illness, concepts of health, factors affecting wellbeing, the concepts related to how we protect ourselves, the immune system, general aspects of microbiology & parasitology, body reaction to external risk factors, the internal milieu & homeostasis. The module also introduces the student to epidemiologic aspects of disease & the types of variables, in addition to communication & medical interviewing, history taking skills.

HEMA 204 HEMATOLOGY UNIT (3Cr.)

This module deals with clinical presentations of anemia; the process of hematopoeisis, types & pathophysiology of anemia. It deals also with blood cell malignancies. In addition, coagulation disorders, the normal process of coagulation, investigations & management are discussed.

PHASE I – YEAR TWO

CARD 205 CARDIOVASCULAR SYSTEM (7Cr.)

This module introduces students to the structure, function, & development of the heart, blood vessels, blood cells & the lymphatic system. The students study the regulatory mechanisms of the cardiovascular system. They also study lipid metabolism, in addition to pathological changes in congestion, atherosclerosis, hypertension, ischemic heart diseases, congenital heart diseases as well as heart failure. They also study different microorganisms & parasites that affect the cardiovascular system & drugs used in treating cardiovascular disorders. The module also introduces the student to the history of medicine, the magnitude of burden of cardiovascular disease

deaths worldwide, risk factors & preventive measures. Students are also introduced to clinical skills that assist them to develop the ability of focused history taking based on common diseases related to cardiovascular system, & cardiac examination in clinical skill lab. In this module, students learn how to plan strategy for balancing personal & professional demands, effective time management & prioritization of tasks. The students also become aware about professional rights & responsibilities.
Prerequisites: FABL201, LOCO 202, COHD 203, HEMA204.

GITN 206 GASTRO INTESTINAL TRACT & NUTRITION (7Cr.):
This module introduces students to the structure, function, development of the gastrointestinal tract, liver, gall bladder & pancreas. The students study the pathways of protein metabolism & pathological changes in intestinal & hepatic diseases as well as the infectious microorganisms & parasites involved in the gastrointestinal diseases & drugs used to treat different diseases. Students are also introduced to clinical skills that assist them to develop the ability of focused history taking based on common diseases related to gastrointestinal tract, abdominal examination in clinical skill lab. The students learn how to calculate the caloric intake, the metabolic rate, body mass index & how to formulate health dietary plans. Prerequisites: FABL201, LOCO202, COHD 203, HEMA204

RESP 207 RESPIRATORY SYSTEM (5Cr.)
This module introduces students to the structural, functional & pathological aspects of the respiratory system, the mechanism of breathing, gas diffusion across respiratory membrane, O2 & CO2 transport in the blood, in addition to the mechanism of regulation of respiration, respiratory changes during muscular exercise, at high altitude & in deep sea. The module also introduces the students to the pathological changes in the larynx, lungs, bronchi, pleura, pulmonary neoplasm, in addition to the infectious microorganisms that affect the respiratory system. The students also study bronchodilator, anti-allergic, & autacoids drugs. They also learn how to estimate the lung volumes, lung capacities, & how to differentiate between obstructive & restrictive lung diseases both clinically & by pulmonary function tests. Students are also introduced to clinical skills that assist them to develop the ability of focused history taking based on common diseases related to respiratory system, & chest examination in clinical skill lab. Prerequisites: FABL201, LOCO202, COHD 203, HEMA204.

RENR 208 ENDOCRINE & REPRODUCTION I (7Cr.):
This module introduces students to the structural, functional & pathological aspects of the endocrine system & the female genital system with their relevant clinical significance as well as infections affecting these systems & drugs acting on them. Conditions caused by inadequate or excessive production of different hormones are also discussed. Students are also introduced to clinical skills that assist them to develop the ability of focused history taking based on common diseases related to endocrines & female reproductive system & clinical examination in clinical skill lab. Prerequisites: FABL201, LOCO 202, COHD 203, HEMA204

PHASE I YEAR THREE

USRP 301 URINARY SYSTEM & REPRODUCTION II (6 Cr.):
This module introduces students to the structural, functional & pathological aspects of the urinary system & the male genital system with their relevant clinical significance as well as infections affecting these systems & drugs acting on them. Students are also introduced to clinical skills that assist them to develop the ability of focused history taking based on common diseases related to endocrines & male reproductive system & clinical examination in clinical skill lab. Prerequisites: CARD 205, GITN 206.RENR 208, RESP 207.

NESC 303 NEUROSCIENCES (8Cr.):
This module introduces students to fundamentals of the central nervous system, from normal structure & function to pathology of common diseases & their relation to clinical presentations & management. The students study also infections affecting the CNS & drugs acting on the CNS. Students are also introduced to clinical skills that assist them to develop the ability of focused history taking based on common diseases related to the CNS & clinical examination of the nervous system. Prerequisites: CARD 205, GITN 206.RENR 208, RESP 207.

PBGS 302 PROBLEM BASED GROUP STUDY I (7 Cr.)
This module allows the students to apply knowledge learnt in previous semesters & to discuss common illnesses, conditions & disorders through problem based learning which cover important concepts. It enables students to use the basic sciences knowledge in a conceptual context to construct algorithmic maps for common clinical problems in a critical thinking & clinical-wise approach. The module also introduces the students to research methodology including the biostatistics, types of variables, data collection & data presentation, & medical informatics. It raises their acquaintance with the scientific design & limitations of the various study types. Prerequisites: CARD 205, GITN 206.RENR 208, RESP 207.

PBGS 304 PROBLEM BASED GROUP STUDY II (7 Cr.)
This module allows the students to apply knowledge learnt in previous semesters & to discuss common illnesses, conditions & disorders through problem based learning which cover important concepts. It enables students to use the basic sciences knowledge in a conceptual context to construct algorithmic maps for common clinical problems in a critical thinking & clinical-wise approach. The module also introduces students to research methodology including the biostatistics, types of variables, data collection & data presentation, & medical informatics. It raises their acquaintance with the scientific design & limitations of the various study types. Prerequisites: CARD 205, GITN 206.RENR 208, RESP 207.

REPG 306 RESEARCH PROJECT (4 Cr.)
This module gives the students a chance to conduct a research project as an application to what they have learned in previous modules in parallel with PBGS 302 & PBGS 304. Prerequisites: CARD 205, GITN 206.RENR 208, RESP 207.

PHASE II YEAR FOUR

OBGY 401 OBSTETRICS & GYNECOLOGY (9Cr.):

This 8 weeks module introduces students to learning opportunities in clinical situations that help applying knowledge learnt in phase I & understanding common & important illnesses, conditions & disorders, in addition to patho-physiology & pharmacology in obstetrics & gynecology. Students are allowed to discuss issues related to normal & abnormal pregnancy & labor, operative deliveries, bleeding with pregnancy, use of ultrasound in obstetrics & gynecology, medical & surgical diseases with pregnancy. Students are also allowed to discuss issues related to genital prolapse & displacements, pelvic floor dysfunction, uterine fibroids, infertility & assisted reproductive techniques, malignant disorders, contraceptive modalities, & dysfunctional uterine bleeding. Students also are exposed to clinical experience in taking focused history & examination skills at a good standard, with the ability to competently diagnose & appropriately manage cases.

Prerequisites: USRP301 Urinary System & Rep II, NESC303 Neurosciences, PBGS302 Problem based group study 1, PBGS304 Problem based group study 2, REPG306 Research Project.

SURG 402 SURGERY (9Cr.):

This 8 weeks module introduces students to learning opportunities in clinical situations that help applying knowledge learnt in phase I & understanding common & important illnesses, conditions & disorders, in addition to patho-physiology & pharmacology in general surgery. Students are allowed to discuss issues related to head & neck swellings, surgical breast disorders, thyroid surgery, surgery of the spleen, & gastrointestinal surgery. Students also are exposed to clinical experience in taking focused history & examination skills at a good standard, with the ability to competently diagnose & appropriately manage cases, & the ability to perform basic relevant procedures.

Prerequisites: USRP301 Urinary System & Rep II, NESC303 Neurosciences, PBGS302 Problem based group study 1, PBGS304 Problem based group study 2, REPG306 Research Project.

PEDT 403 PEDIATRICS (9Cr.):

This 8 weeks module introduces students to learning opportunities in clinical situations that help applying knowledge learnt in phase I & understanding common & important illnesses, conditions & disorders, in addition to patho-physiology & pharmacology in pediatrics. Students study issues related to growth & development, common nutritional problems, neonatology, allergic diseases, gastroenterology, infections, respiratory diseases, endocrinology, & common genetic disorders. In addition, students are allowed to discuss under-five health services, school health programmes & children with special health care needs. Students are also exposed to clinical experience in taking focused history & examination skills at a good standard, with the ability to competently diagnose & appropriately manage cases.

Prerequisites: USRP301 Urinary System & Rep II, NESC303 Neurosciences, PBGS302 Problem based group study 1, PBGS304 Problem based group study 2, REPG306 Research Project.

INTM 404 MEDICINE (9Cr.):

This 8 weeks module introduces students to learning opportunities in clinical situations that help applying knowledge learnt in phase I & understanding common & important illnesses, conditions & disorders, in addition to patho-physiology & pharmacology in internal medicine. Students are allowed to discuss issues related to rheumatologic disorders, metabolic, endocrinal diseases & diabetes mellitus, & gastrointestinal & hepatobiliary diseases. Students are also exposed to clinical experience in taking focused history & examination skills at a good standard, with the ability to competently diagnose & appropriately manage cases.

Prerequisites: USRP301 Urinary System & Rep II, NESC303 Neurosciences, PBGS302 Problem based group study 1, PBGS304 Problem based group study 2, REPG306 Research Project.

PHASE II YEAR FIVE

FMER 501- FAMILY MEDICINE (9Cr)

This 8 weeks module introduces students to opportunities for community based learning. They are exposed to different clinical situations related to family medicine. The module exposes the students to the unique characteristics of primary health care practice & gives them an opportunity to integrate previous learning experiences with field practice. Students are also exposed to clinical experience in taking focused history & examination skills at a good standard, with the ability to competently diagnose & appropriately manage cases.

Prerequisites: PEDT403 Pediatrics, INTM404 Medicine, OBGY401 Obstetrics & Gynecology, SURG402 Surgery.

PEDM 502 MEDICINE & PEDIATRICS (9 Cr)

In this 8 weeks module students will study some clinical problems & situations in internal & pediatric medicine.

Students are allowed to discuss issues related to blood disorders, renal diseases in adults & in pediatric medicine. In addition, students will study pediatric endocrinology, neurology, & cardiology. Students are also exposed to clinical experience in taking focused history & examination skills at a good standard, with the ability to competently diagnose & appropriately manage cases.

Prerequisites: PEDT403 Pediatrics, INTM404 Medicine, OBGY401 Obstetrics & Gynecology, SURG402 Surgery.

ORUR 503- SURGERY SUBSPECIALTIES (9Cr)

This 8 weeks module introduces students to learning opportunities in clinical situations that help applying knowledge learnt in phase I & understanding common & important illnesses, conditions & disorders, in addition to patho-physiology & pharmacology in orthopedic & urology. Students are allowed to discuss issues related to fracture pelvis, fracture acetabulum, fracture shaft femur, supracondylar fracture, fracture leg, fracture of the ankle, ankles dislocations, fracture of the clavicle, & birth injuries. In addition, students will study cancer prostate, bladder cancer, benign prostatic hyperplasia, ureteric tumors, renal pelvic tumors, renal cell carcinoma, renal & ureteric

stones, testicular tumors, & lithotomy. Students are also exposed to clinical experience in taking focused history & examination skills at a good standard, with the ability to competently diagnose & appropriately manage cases.
Prerequisites: PEDT403 Pediatrics, INTM404 Medicine, OBGY401 Obstetrics & Gynecology, SURG402 Surgery.

CAPU 504 CARDIOLOGY & PULMONARY DISEASES (9 Cr)

This 8 weeks module introduces students to learning opportunities in clinical situations that help applying knowledge learnt in phase I & understanding common & important illnesses, conditions & disorders, in addition to patho-physiology & pharmacology in cardiac & pulmonary diseases. Students are allowed to discuss issues related to hypertension, heart failure, ischemic heart disease, congenital heart disease, rheumatic heart disease, infective endocarditis, pericardial diseases, myocardial diseases, & dysrhythmias. In addition, students will study hemoptysis & chest pain, wheezes, dyspnea & cough, bronchial asthma, COPD, community-acquired & nosocomial pneumonia, suppurative lung diseases, tuberculosis in adults & in children, interstitial lung diseases & occupational lung disease, bronchogenic carcinoma, benign lung tumors & mediastinal syndrome, pleural diseases, & pulmonary embolism. Students are also exposed to clinical experience in taking focused history & examination skills at a good standard, with the ability to competently diagnose & appropriately manage cases.
Prerequisites: PEDT403 Pediatrics, INTM404 Medicine, OBGY401 Obstetrics & Gynecology, SURG402 Surgery.

PHASE III YEAR SIX

NEPS 601 NEUROLOGY & PSYCHIATRY (9 Cr)

This 8 weeks module introduces students to learning opportunities in clinical situations that help applying knowledge learnt in phase I & understanding common & important illnesses, conditions & disorders, in addition to patho-physiology & pharmacology in neurology & psychiatry. Students are allowed to discuss issues related to headache, coma, cranial nerve disorders, epilepsy, extrapyramidal disorders, CNS infections, vascular diseases, demyelinating disorders & ataxia, motor neuron disease & myopathy, peripheral neuropathy & sciatica, paraplegia & spinal cord disorders, muscular & neuromuscular disorders. In addition, students will study mood disorders, depressive disorders, bipolar disorders, anxiety disorders & schizophrenia. Students are also exposed to clinical experience in taking focused history & examination skills at a good standard, with the ability to competently diagnose & appropriately manage cases.
Prerequisites: FMER 501 Family Medicine, CAPU 504 Cardiology & Pulmonary Diseases, PEDM 502 Medicine & Pediatrics, ORUR 503 Surgery Subspecialties.

SMED 602- MEDICINE & SURGERY (9 Cr)

This 8 weeks module introduces students to their own responsibility for self-learning. The module provides them with different opportunities to encounter patients in different clinical settings. They function as sub-interns responsible under supervision for their patients. Students are attached to a range of clinical settings allowing them to work continuously in the clinical environment & to consolidate their basic & clinical science knowledge. Faculty members & clinicians are the main contributors in this course. Students are allowed to discuss issues related to medical & surgical clinical problems.

Prerequisites: FMER 501 Family Medicine, CAPU 504 Cardiology & Pulmonary Diseases, PEDM 502 Medicine & Pediatrics, ORUR 503 Surgery Subspecialties.

SUGE 603-SURGICAL SUBSPECIALTIES ELECTIVE (9 Cr)

This 8 weeks module introduces students to clinical learning & clerkship in some selected surgical subspecialties. The module provides them with different opportunities to encounter patients in different clinical settings. They function as sub-interns responsible for their patients under supervision. Students are attached to a range of clinical settings allowing them to work continuously in the clinical environment & to consolidate their basic & clinical science knowledge.

Prerequisites: FMER 501 Family Medicine, CAPU 504 Cardiology & Pulmonary Diseases, PEDM 502 Medicine & Pediatrics, ORUR 503 Surgery Subspecialties.

INSE 604-MEDICAL SUBSPECIALTIES ELECTIVE (9 Cr)

This 8 weeks module introduces students to clinical learning & clerkship in some selected medical subspecialties. The module provides them with different opportunities to encounter patients in different clinical settings. They function as sub-interns responsible for their patients under supervision. Students are attached to a range of clinical settings allowing them to work continuously in the clinical environment & to consolidate their basic & clinical science knowledge.

Prerequisites: FMER 501 Family Medicine, CAPU 504 Cardiology & Pulmonary Diseases, PEDM 502 Medicine & Pediatrics, ORUR 503 Surgery Subspecialties.

STUDY PLAN

Bachelor of Medicine & Surgery (204 Credit Hours)

PHASE I (PRE CLERKSHIP PHASE)

First Semester (14 Credits) – (14 Weeks)			Crs.
MATH	281	Fabrics of life	5
COHD	203	Concepts of Health & Disease	7
BLAW	001	Human Rights	1
ENGL	001	English Language	2

Second Semester (16 Credits) – (14 Weeks)			Crs.
LOCO	202	Locomotor System	9
HEMA	204	Hematology Unit	3
ARAB	001	Arabic Language	2
SSC*			1

NB: The core modules are pre-requisites for the next semesters.

Third Semester (16 Credits) – (14 Weeks)			Crs.
CARD	205	Cardiovascular System	7
RENR	207	Respiratory System	5
SSC*			4

Fourth Semester (18 Credits) – (14 Weeks)			Crs.
GITN	206	Gastrointestinal tract & Nutrition	7
RENR	208	Endocrine & Reproduction I	7
SSC*			4

Fifth Semester (14 Credits) – (14 Weeks)			Crs.
USRP	301	Urinary System & Reproduction II	6
NESC	303	Neurosciences	8

Sixth Semester (18 Credits) – (14 Weeks)			Crs.
USRP	301	Problem Based Group Study I	7
USRP	304	Problem Based Group Study II	7
REPG	306	Research Project (15 weeks in parallel with 302 & 304 modules)	4

COMPREHENSIVE CLERKSHIP ENTRY EXAM

PHASE II (CLERKSHIP PHASE)

Seventh Semester (18 Credits) – (16 Weeks)			Crs.
Block I:			
OBGY	401	Obstetrics & Gynecology	9
PEDT	403	Pediatrics	9
		or	
Block I:			
SURG	402	Surgery	9
INTM	404	Medicine	9

• Students are divided into 2 groups; each group to register in One block per Semester.

Eighth Semester (18 Credits) – (16 Weeks)			Crs.
Block I:			
OBGY	401	Obstetrics & Gynecology	9
PEDT	403	Pediatrics	9
		or	
Block I:			
SURG	402	Surgery	9
INTM	404	Medicine	9

• Students are divided into 2 groups; each group to register in One block per Semester.
NB: The 7th & 8th semesters' modules are pre-requisites for the next semesters

Ninth Semester (Beirut) (18 Credits) – (16 Weeks)			Crs.
Block I:			
FMER	501	Family medicine	9
ORUR	503	Surgery Subspecialties	9
		or	
Block I:			
PEDM	502	Medicine & Pediatrics	9
CAPU	504	Cardiology & Pulmonary diseases	9

• Students are divided into 2 groups; each group to register in One block per Semester.

Tenth Semester (18 Credits) – (16 Weeks)			Crs.
Block I:			
FMER	501	Family medicine	9
ORUR	503	Surgery Subspecialties	9

or

Block I:			
PEDM	502	Medicine & Pediatrics	9
CAPU	504	Cardiology & Pulmonary diseases	9

• **Students are divided into 2 groups; each group to register in One block per Semester.**

NB: The 9th & 10th semesters' modules are pre-requisites for the next semesters.

PHASE III (PRE INTERNSHIP PHASE)

Eleventh Semester (18 Credits) – (16 Weeks)			Crs.
Block I:			
NEPS	601	Neurology & Psychiatry	9
SUGE	603	Surgery Subspecialties Elective	9

or

Block I:			
SMED	602	Medicine & Surgery	9
INSE	604	Internal Medicine Subspecialties Elective	9

• **Students are divided into 2 groups; each group to register in One block per Semester.**

Twelfth Semester (18 Credits) – (16 Weeks)			Crs.
Block I:			
NEPS	601	Neurology & Psychiatry	9
SUGE	603	Surgery Subspecialties Elective	9

or

Block I:			
SMED	602	Medicine & Surgery	9
INSE	604	Internal Medicine Subspecialties Elective	9

• **Students are divided into 2 groups; each group to register in One block per Semester.**

COMPREHENSIVE MBBBCh EXIT EXAM