

Undergraduate Catalogue 2018

Faculty of

MEDICINE

Faculty Administration

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Assistant Dean	Associate Prof. Mohamad Houri
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Academic Staff

Department of Basic Medical Sciences

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Department of Clinical Sciences

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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 and change.

The Faculty offers a Bachelor Degree in Medicine and Surgery (M.B.B.Ch), in addition, the Faculty provides Master and Doctorate Degrees in some Basic and Clinical Medical specialties. Moreover, 24 residency and fellowship programmes are running in collaboration with many affiliated hospitals in Lebanon. At present, 491 students are enrolled under the programme and 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 and Military Hospital. The affiliation with hospital extends to cover Lebanese regions outside Beirut; Hammoud Hospital University Medical Center and Saida Governmental Hospital at Saida city, Rayak and Beqaa hospitals in the region of Beqaa, Mazloum, Alnini, and Haykel Hospitals in the city of Tripoli. In addition, the Faculty has agreement with Notre Dame du Liban Hospital in Jounieh at the north of Beirut. The agreements with these hospitals provide students with venues for undergraduate clinical training and postgraduate professional residency and 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 and simplicity to select their courses and adjust their schedules.

With the rapid and 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 and teacher centered learning policy to an outcomes and 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) and Case Based Learning. Basic Medical Sciences and 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 cohort of students of this reformed programme graduated on June 2016.

Organizational Structure

The Faculty of Medicine constitutes of two departments:

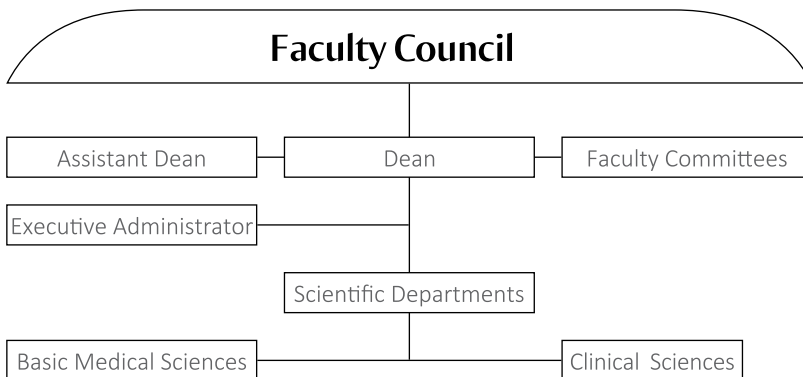
1-Department of Basic Medical Sciences

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

2- Department of Clinical Sciences

It includes: Medicine, Surgery, Pediatric Medicine, Obstetrics and Gynecology, and Community and 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 and Training. The Faculty will be one of the main providers of medical programmes which contribute to the Lebanese community sustainable development, and respond to its health need with the highest standard of ethics and professionalism.

Mission

The Faculty of Medicine Beirut Arab University will distinguish itself in the full spectrum of Medical Education programmes for undergraduates, post-graduates and continuing professional development. It will graduate highly professional and 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 and its consequent translation to patient's care. The Faculty will strive to implement this mission with the highest professional and ethical standards in response to the community health needs which guide its programme' development and educational research, strategies and services.

Faculty Values

- Devotion
- Integrity
- Accountability

Programme Objectives

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

Academic Program

The Faculty offers a Bachelor Degree in Medicine and Surgery (MBBCh) 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, and 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.

Programme Outcomes

The medical programme is based on outcome competencies and the medical graduate profile (MGF). The outcome competencies and related curriculum learning objectives were benchmarked with the Accreditation Council for Graduate Medical Education (ACGME), however, the content and delivery of the programme was adapted to the culture, beliefs and 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 programme. The MGP competencies are organized around six domains (ACGME):

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

Curriculum competencies and related objectives are organized around four themes

Theme I: Professional Development

Theme II: Medicine and 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 and related objectives are distributed along the themes and reflected in themes objectives, contents, learning and teaching approaches and the training environment.

Career Opportunities

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

Program Overview

The standard duration of the Medical curriculum is six years delivered over 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 and with some clinical presentations through different learning methods.

- Phase II:
Clerkship Phase (Semesters 7 to 10) which includes clinical rotations in Medicine and Medical Subspecialties, Surgery and Surgical Subspecialties, Paediatrics, Obstetrics and Gynaecology, and Family Medicine. The medical programme in this phase focuses on bed side hospital training and students are learning professional skills in clinical rotations.
- Phase III:
Pre-internship Phase (Semesters 11 and 12) which includes clinical rotation in major medical branches together with clinical elective courses. In this phase, the students mostly function as sub-interns and they are responsible for their own patients under supervision.

Graduation Requirements

To receive a Bachelor Degree in Medicine and Surgery (MBBCh) 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.), and 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 and 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) and 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 and 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 two modules.
- 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) and Modified Essay Questions (MEQ).
- Assessment of skills level is assessed using Objective Structured Practical and Clinical Examinations ('OSPE' and 'OSCE').
- Supervisors' evaluation of student performance is used in assessing the student's community based activities and performance in the clerkship.

• **Comprehensive Clerkship Entry Exam**

The International Foundations of Medicine Examination Comprehensive clerkship Entry Exam in (Basic Medical Sciences)

- Successful completion and 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% after 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 MBBCh exit exam (Clinical Sciences)

- The student is not permitted to enter the IFOM II unless his/her CGPA is above 2.
- Successful completion and passing of all the Clerkship Rotations is a requirement for graduation.
- Re-sit Examination and 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 and 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	Life Cycle	5
LOCO	202	Locomotor System	9
COHD	203	Health and Disease	7
HEMA	204	Hematology	3
CARD	205	Cardiovascular System	7
GITN	206	Gastrointestinal System	7
RESP	207	Respiratory System	5
RENR	208	Endocrine and Reproductive System I	7
USRP	301	Urinary System and Reproductive System II	6
IPEH	308	Interprofessional Education for Health care	1
MSYS	302	Multisystem 1	7
NESC	303	Neurosciences	8
MSYS	304	Multisystem 2	7
REPG	306	Research Project	3
OBGY	401	Obstetrics and Gynecology	9
SURG	402	Surgery 1	9
PEDT	403	Pediatrics 1	9
INTM	404	Medicine 1	9
FAMI	501	Family Medicine	9
NEPS	502	Neurology and Psychiatry	9
SURG	503	Surgery 2	9
INTM	504	Medicine 2	9
NEPS	601	Neurology and Psychiatry	9
SMED	602	Medicine 4 and Surgery 3	9
SUME	603	Elective 1	9
SUME	604	Elective 2	9

Description of Modules

PHASE I – YEAR ONE

FABL 201 LIFE CYCLE (5Cr.)

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

LOCO 202 LOCOMOTOR SYSTEM (9Cr.)

This module introduces students to the structure and function, the general, special and applied aspects of bones, muscles, nerves and joints of the upper and lower limbs. It involves the development of both upper and lower limbs with special reference to their anomalies. The students also study medical imaging of normal specimen and applied anatomy in addition to the study of the peripheral and autonomic nervous system and anti-inflammatory drugs. The module involves clinical skill lab training emphasizing on surface anatomy and joint, muscle and nerve examination. 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 and population dynamics.

COHD 203 HEALTH AND DISEASE (7Cr.)

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

HEMA 204 HEMATOLOGY (3Cr.)

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

PHASE I – YEAR TWO

CARD 205 CARDIOVASCULAR SYSTEM (7Cr.)

This module introduces the students to the development, structure, function of the heart and related vessels through an outcome based learning strategy. The students study different pathological conditions related to diseases of the cardiovascular system such as hypertension, heart failure and arrhythmias in combination with the guidelines of their diagnosis and treatment. Clinical skills given at the faculty's clinical training center help the students to develop the ability of focused history taking and competent

physical examination related to cardiovascular diseases. The students get to read ECG and interpret different graphs related to cardiac and vascular functions. Behavioral medicine lectures help in students' professional development. Prerequisites: FABL201, LOCO 202, COHD 203, HEMA204.

GITN 206 GASTRO INTESTINAL SYSTEM (7Cr.)

This module introduces students to the structure, function, development of the gastrointestinal tract, liver, gall bladder and pancreas. The students study the pathways of protein metabolism and pathological changes in intestinal and hepatic diseases as well as the infectious microorganisms and parasites involved in the gastrointestinal diseases and 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, and abdominal examination in clinical skill lab. The students learn how to calculate the caloric intake, the metabolic rate, body mass index and how to formulate health dietary plans. The students also learn some subjects of nutrition as categories of nutrients, and diet and health. They also study professional development and quality of life issues. Prerequisites: FABL201, LOCO202, COHD 203, HEMA204

RESP 207 RESPIRATORY SYSTEM (5Cr.)

This module introduces students to the structural, functional and pathological aspects of the respiratory system, the mechanism of breathing, gas diffusion across respiratory membrane, O₂ and CO₂ transport in the blood, in addition to the mechanism of regulation of respiration, respiratory changes during muscular exercise, at high altitude and 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, and autacoids drugs. They also learn how to estimate the lung volumes, lung capacities, and how to differentiate between obstructive and restrictive lung diseases both clinically and 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, and chest examination in clinical skill lab. Prerequisites: FABL201, LOCO202, COHD 203, HEMA204.

REN208 ENDOCRINE AND REPRODUCTION SYSTEM I (7Cr.):

This module introduces students to the structural, functional and pathological aspects of the endocrine system and the female genital system with their relevant clinical significance as well as infections affecting these systems and 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 endocrine and female reproductive system and clinical examination in clinical skill lab. Prerequisites: FABL201, LOCO 202, COHD 203, HEMA204.

PHASE I – YEAR THREE

USRP 301 URINARY SYSTEM AND REPRODUCTIVE SYSTEM II (6 Cr.)

This module introduces students to the structural, functional and pathological aspects of the urinary system and the male genital system with their relevant clinical significance as well as the infections affecting these systems and drugs acting on them. It involves the development of urinary and male genital systems with special reference to their anomalies. Students are also introduced to clinical skills that assist them to develop the ability of focused history taking, based on common diseases related to endocrine and male reproductive system, and clinical examination in clinical skill lab. Prerequisites: CARD 205, GITN 206, RENR 208, RESP 207.

MSYS 302 MULTISYSTEM I (7 Cr.)

This 7 weeks module allows the students to apply knowledge learnt in previous semesters to the diagnosis, and understanding of common illnesses, conditions and disorders, their pathophysiology and pharmacology. 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 and clinical-wise approach. The module also introduces students to research methodologies including the biostatistics, types of variables, data collection and data presentation, and medical informatics. It raises their acquaintance with the scientific design and limitations of the various study types. Students will learn how to apply key principles in evidence based medicine. Student's awareness of legal and ethical issues, professional rights and responsibilities, patient advocacy, and working in multi-disciplinary teams will also be met. Prerequisites: CARD 205, GITN 206, RENR 208, RESP 207.

NESC 303 NEUROSCIENCES (8Cr.)

This module introduces students to fundamentals of the central nervous system (CNS) and the cranial nerves, from the normal structure and function to the pathology of common diseases, their clinical presentations and management. It involves the development of skull and nervous system with special reference to their anomalies. The students also study infections affecting the CNS and 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, and clinical examination of the nervous system. Prerequisites: CARD 205, GITN 206, RENR 208, RESP 207.

MSYS 304 MULTISYSTEM II (7 Cr.)

This 7 weeks module allows the students to apply knowledge learnt in previous semesters to the diagnosis, and understanding of common illnesses, conditions and disorders, their pathophysiology and pharmacology. 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 and clinical-wise approach. The module also introduces students to research methodologies including the biostatistics, types of variables, data collection and data presentation, and medical informatics. It raises their acquaintance with the scientific design and limitations of the various study types.

Students will learn how to apply key principles in evidence based medicine. Student's awareness of legal and ethical issues, professional rights and responsibilities, patient advocacy, and working in multi-disciplinary teams will also be met. Prerequisites: CARD 205, GITN 206, RENR 208, RESP 207.

REPG 306 RESEARCH PROJECT (3 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 MSYS302 and MSYS304. Prerequisites: CARD 205, GITN 206, RENR 208, RESP 207.

IPEH 308 INTERPROFESSIONAL EDUCATION FOR HEALTH CARE (1 Cr)

The course aims to foster the knowledge, skills, attitudes and behaviours that facilitate effective interprofessional (IP) collaborative practice among health care providers. Through interactive learning, students will explore ways in which their professions can work together in order to optimize patient's care respecting each other's roles and responsibilities. The course employs a variety of interactive methods and technologies. This course provides students with the fundamental IP competencies, which are necessary for a coordinated and safe IP collaboration that decreases medical errors, and improves patient's safety, and outcomes regardless of their practice environment and professional discipline. The course employs a variety of interactive learning methods and technologies including simulation. The content addresses the errors in health care settings, case studies about patients with acute and/or chronic illnesses, as well as IP core competencies including understanding roles and responsibilities for self and others, IP conflict management, IP communication, IP collaborative leadership, team functioning, and collaborative patient-centered approach.

Prerequisites: CARD 205, GITN 206, RENR 208, RESP 207.

PHASE II—YEAR FOUR

OBGY 401 OBSTETRICS AND GYNECOLOGY (9Cr.)

This 8 weeks module introduces students to the patho-physiology and pharmacology of different clinical conditions and disorders related to obstetrics and gynecology. Students will be able to understand normal and abnormal pregnancy and labor, operative deliveries, bleeding during pregnancy, use of ultrasound in obstetrics and gynecology, in addition to different medical diseases and complications that occur during pregnancy. Students will also be acquainted with topics related to genital prolapse and displacements, pelvic floor dysfunction, uterine fibroids, infertility and assisted reproductive techniques. In addition, they will be exposed to methods of contraception, abnormal uterine bleeding and cancers of the female genital tract. Students will learn how to do a focused history taking and how to perform physical and pelvic examination skills at a good standard, with the ability to competently diagnose and appropriately manage cases. Students will have programmed sessions in obstetrical and gynecological medical simulation. Prerequisites: USRP301 Urinary System and Rep II, NESC303 Neurosciences, MSYS 302- Multisystem I, MSYS 304- Multisystem II, REPG306 Research Project.

SURG 402 SURGERY I (9Cr.)

This 8 weeks module introduces students to learning opportunities in clinical situations that help applying knowledge learnt in phase I and understanding common and important illnesses, conditions and disorders, in addition to anatomy and pathophysiology in general surgery. Students are allowed to discuss issues related to general surgery topics such as preoperative preparation, postoperative care, surgical nutrition, thyroid nodules, surgical breast disorders, hernias; as well as hepatobiliopancreatic surgery and gastrointestinal surgery. Students also are exposed to clinical experience in taking focused history and examination skills at a good standard, with the ability to competently diagnose and appropriately manage cases, and the ability to acquire basic surgical skills and perform basic relevant procedures. Prerequisites: USRP301 Urinary System and Rep II, NESC303 Neurosciences, MSYS 302- Multisystem I, MSYS 304- Multisystem II, REPG306 Research Project. Prerequisites: USRP301 Urinary System and Rep II, NESC303 Neurosciences, MSYS 302- Multisystem I, MSYS 304- Multisystem II, REPG306 Research Project

PEDT 403 PEDIATRICS I (9Cr.):

This 8 weeks module is supposed to introduce knowledge, add clinical experience through taking history and performing clinical examination at a good standard, and maintain professionalism in the field of Pediatrics. Students get learning opportunities in clinical situations that help applying what is learnt in phase I and understanding common and important illnesses, conditions and disorders, in addition to pathophysiology and pharmacology in pediatrics, with the ability to competently diagnose and appropriately manage cases. Students study issues related to growth and development, vaccination, common nutritional problems, neonatology, allergic diseases, gastroenterology, infection diseases, respiratory diseases, basics of medical genetics, and common genetic disorders Prerequisites: USRP301 Urinary System and Rep II, NESC303 Neurosciences, MSYS 302- Multisystem I, MSYS 304- Multisystem II, REPG306 Research Project.

INTM 404 MEDICINE I (9Cr.):

This 8 weeks module introduces students to learning opportunities in clinical situations that help applying knowledge learnt in phase I and understanding common and important illnesses, conditions and disorders, in addition to pathophysiology and pharmacology in internal medicine. Students are allowed to discuss issues related to rheumatologic disorders, metabolic and endocrine diseases and diabetes mellitus, and gastrointestinal and hepatobiliary diseases. Students are also exposed to clinical experience in taking focused history and examination skills at a good standard with the ability to competently diagnose and appropriately manage cases. Prerequisites: USRP301 Urinary System and Rep II, NESC303 Neurosciences, MSYS 302- Multisystem I, MSYS 304- Multisystem II, REPG306 Research Project.

PHASE II – YEAR FIVE**FAMI 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 and gives them an opportunity to integrate previous learning experiences with field practice. Students are also exposed to clinical experience in taking focused history and examination skills at a good standard, with the ability to competently diagnose and appropriately manage cases.

Prerequisites: PEDT403 Pediatrics 1, INTM404 Medicine 1, OBGY401 Obstetrics& Gynecology, SURG402 Surgery 1.

NEPS 502 NEUROLOGY AND PSYCHIATRY (9 Cr)

This 8 weeks module introduces students to learning opportunities in clinical situations that help applying knowledge learnt in phase I and understanding common and important illnesses, conditions and disorders, in addition to pathophysiology and pharmacology in neurology and psychiatry. Students are allowed to discuss issues related to headache, coma, cranial nerve disorders, epilepsy, extrapyramidal disorders, CNS infections, vascular diseases, demyelinating disorders and ataxia, motor neuron disease and myopathy, peripheral neuropathy and sciatica, paraplegia and spinal cord disorders, and muscular and neuromuscular disorders. In addition, students will study mood disorders, depressive disorders, bipolar disorders, anxiety disorders and schizophrenia. Students are also exposed to clinical experience in taking focused history and examination skills at a good standard, with the ability to competently diagnose and appropriately manage cases. Prerequisites: PEDT403 Pediatrics 1, INTM404 Medicine1, OBGY401 Obstetrics and Gynecology, SURG402 Surgery 1.

SURG 503 SURGERY 2 (9Cr)

This 8 weeks module introduces students to learning opportunities in clinical situations that help applying knowledge learnt in phase I and understanding common and important illnesses, conditions and disorders, in addition to anatomy and pathophysiology in orthopedic, urologic, ophthalmologic and ear/nose/throat conditions. Students are allowed to discuss orthopedic surgery issues related to fracture pelvis, fracture acetabulum, fracture femur, fracture leg, fracture of the ankle, ankle dislocation, supracondylar fracture, forearm fractures, shoulder dislocation, fracture of the clavicle, osteomyelitis, osteoporosis, spine diseases and pediatric orthopedics. In addition, students will study urology topics related to obstructive uropathy, urinary tract stones, urinary tract infections, benign prostatic hyperplasia, prostatic cancer, prostatitis, bladder cancer, renal tumors, Wilm's tumor, testicular tumors, interstitial cystitis, overactive bladder, urinary incontinence and treatment modalities. Students will acquire good knowledge of the main ophthalmology topics like ocular trauma and emergencies and ENT topics such as diseases of the larynx, ear, nose and paranasal sinuses, pharyngeal tumors and facial nerve disorders. Students are also exposed to clinical experience in taking focused history and examination skills at a good standard, with the ability to competently diagnose and appropriately manage cases of urology,

orthopedic, ophthalmology, ENT and general surgery Prerequisites: PEDT403 Pediatrics 1, INTM404 Medicine1, OBGY401 Obstetrics and Gynecology, SURG402 Surgery 1.

INTM 504 MEDICINE 2 (9 Cr)

This module will last 8 weeks during which the students will study some clinical problems and situations in internal and pediatric medicine. Students will discuss issues related to blood disorders and renal diseases in adults and in the pediatric age group. In addition, students will study cardiac diseases in adults and in children in addition to lung diseases in adults. Students will also be exposed to clinical experience in taking focused history and examination skills at a good standard, with the ability to competently diagnose and appropriately manage cases. Prerequisites: PEDT403 Pediatrics 1, INTM404 Medicine1, OBGY401 Obstetrics and Gynecology, SURG402 Surgery 1.

Phase III - YEAR SIX

NEPS 601 NEUROLOGY AND PSYCHIATRY (9 Cr)

This 8 weeks module introduces students to learning opportunities in clinical situations that help applying knowledge learnt in phase I and understanding common and important illnesses, conditions and disorders, in addition to pathophysiology and pharmacology in neurology and psychiatry. Students are allowed to discuss issues related to headache, coma, cranial nerve disorders, epilepsy, extrapyramidal disorders, CNS infections, vascular diseases, demyelinating disorders and ataxia, motor neuron disease, peripheral neuropathy and sciatica, paraplegia and spinal cord disorders, and muscular and neuromuscular disorders. In addition, students will study mood disorders, depressive disorders, bipolar disorders, anxiety disorders and schizophrenia. Students are also exposed to clinical experience in taking focused history and examination skills at a good standard, with the ability to competently diagnose and appropriately manage cases. Prerequisites: FAMI 501 Family Medicine, INTM 504- Medicine 2, NEPS 502- Neurology and Psychiatry, SURG 503- SURGERY 2

SMED 602 MEDICINE 4 AND SURGERY 3 (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 and to consolidate their basic and clinical science knowledge. Faculty members and clinicians are the main contributors in this course. Students are allowed to discuss issues related to medical and surgical clinical problems.

Prerequisites: FAMI 501 Family Medicine, INTM 504- Medicine 2, NEPS 502- Neurology and Psychiatry, SURG 503- SURGERY 2

SUME 603 ELECTIVE 1 (9 Cr)

This 8 weeks module introduces students to clinical learning and clerkship in some selected 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 and to consolidate their basic and clinical science knowledge.

Prerequisites: FAMI 501 Family Medicine, INTM 504- Medicine 2, NEPS 502- Neurology and Psychiatry, SURG 503- SURGERY 2

SUME 604 ELECTIVE 2 (9 Cr)

This 8 weeks module introduces students to clinical learning and clerkship in some selected 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 and to consolidate their basic and clinical science knowledge.

Prerequisites: FAMI 501 Family Medicine, INTM 504- Medicine 2, NEPS 502- Neurology and Psychiatry, SURG 503- SURGERY 2

STUDY PLAN

Bachelor of Medicine and Surgery (204 Credit Hours)

PHASE I (PRE CLERKSHIP PHASE)

First Semester (15 Credits) – (14 Weeks)			Crs.
FABL	201	Life Cycle	5
COHD	203	Health and Disease	7
BLAW	001	Human Rights	1
ENGL	001	English Language	2

Second Semester (15 Credits) – (14 Weeks)			Crs.
LOCO	202	Locomotor System	9
HEMA	204	Hematology	3
ARAB	001	Arabic Language	2
SSC*			1

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

Third Semester (14 Credits) – (14 Weeks)			Crs.
CARD	205	Cardiovascular System	7
RESP	207	Respiratory System	5
SSC*			2

Fourth Semester (16 Credits) – (14 Weeks)			Crs.
GITN	206	Gastrointestinal System	7
RENR	208	Endocrine and Reproductive System I	7
SSC*			2

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

Fifth Semester (18 Credits) – (14 Weeks)			Crs.
USRP	301	Urinary System and Reproductive System II	6
NESC	303	Neurosciences	8
SSC*			4

Sixth Semester (18 Credits) – (14 Weeks)			Crs.
MSYS	302	Multisystem I	7
MSYS	304	Multisystem II	7
REPG	306	Research Project- 15 weeks in parallel with 302 and 304 modules	3
IPEH	308	Interprofessional Education for Health Care	1

COMPREHENSIVE CLERKSHIP ENTRY EXAM

PHASE II (CLERKSHIP PHASE)

Seventh Semester (18 Credits) – (16 Weeks)			Crs.
Block I:			
OBGY	401	Obstetrics and Gynecology	9
PEDT	403	Pediatrics 1	9

or

Block I:			
SURG	402	Surgery 1	9
INTM	404	Medicine 1	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 and 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 and 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 2	9

or**Block I:**

PEDM	502	Neurology and Psychiatry	9
CAPU	504	Medicine 2	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 2	9

or**Block I:**

PEDM	502	Neurology and Psychiatry	9
CAPU	504	Medicine 2	9

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

NB: The 9th and 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 and Psychiatry	9
SUGE	603	Elective 1	9

or**Block I:**

SMED	602	Medicine and Surgery	9
INSE	604	Elective 2	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 and Psychiatry	9
SUGE	603	Elective 1	9

or**Block I:**

SMED	602	Medicine and Surgery	9
INSE	604	Elective 2	9

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

COMPREHENSIVE MBBBCh EXIT EXAM