

Undergraduate Catalogue 2014

Faculty of

MEDICINE

Faculty Administration

Dean	Prof. Najlaa Mashaal
Assistant Dean	Dr. Mohammad Houry
Faculty Secretary	Mrs. Samar Shmaitelly

Academic Staff

Department Of Basic Medical Sciences

Chairperson	Prof. Youssef Hatem
Professors	Ezzat Sawwa, Mona El Hanafy, Sayed Soulayman, Ramadan El Gharabawi, Rajae Fahmi
Associate professors	Mohamad Shouhayeb
Assistant Professors	Ruzanna Petrosian, Bilal Azakir

Department Of Clinical Medical Sciences

Chairperson	Prof Medhat Anwar
Professors	Alaa Maher, Azza Abou El-Naga, Hala Assem, Mona Abu Saoud, , Mahmoud Mahfouz, Azza Hassan, Ahmed Naguib Hosni
Assistant professors	Mohamad Houry, Mohamad Sokkar

History

The Faculty of Medicine at Beirut Arab University was established in 1995 with 35 students. The student intake has progressively increased since then reaching 100 students in the academic year 2013/2014 with a total of 505 undergraduate students. More than 523 students graduated by 2014. In 1998, a collaborative agreement between Beirut Arab University and four hospitals, namely Hammoud Hospital University Medical Center, Makassed General Hospital and Sahel General Hospital, as well as Dar El Ajaza Al Islamia Hospital was established. These agreements provided our students with venues for undergraduate clinical clerkships as well as postgraduate clinical training programs. In 2007, the Rafik Hariri University Hospital became the 5th hospital to join this collaboration; in 2009 collaboration was signed with Al Zahraa University Hospital, and in 2010 collaboration was signed in with Saida Governmental Hospital expanding the choices of postgraduate residency programs. The latest collaboration was signed in 2012 with Najjar, Reyak and Notre Dame du Liban Hospitals.

In the academic year 2004/2005 the first batches of residents graduated in the following specialties: Internal Medicine, Pediatrics, and Psychiatrics. This was followed , in the academic year 2005/2006, by other batches in: Obstetrics and Gynecology, Ophthalmology, Anesthesia, Gastroenterology and Otorhinolaryngology.

In 2005, the first Master Degrees in "Ophthalmology" and "Plastic and Reconstructive Surgery" were awarded by the Faculty, and in the year 2009 the first Doctorate Degree in Ophthalmology was awarded.

At its beginning the faculty adopted the traditional discipline-based six years program on a scholar-

year basis, afterwards the same curriculum was adjusted to comply with the credit hour system in the year 2005. The credit hours system adopted by the university added more flexibility and simplicity to the selection of courses and students' schedules.

With the rapid and fundamental changes the medical education field is undergoing worldwide at all levels, a new undergraduate integrated curriculum based on outcomes and competencies became a must. The implementation of the "Outcome Based Integrated Curriculum" started since the academic year 2010/2011.

Organizational Structure

The Faculty of Medicine constitutes the following Two departments:

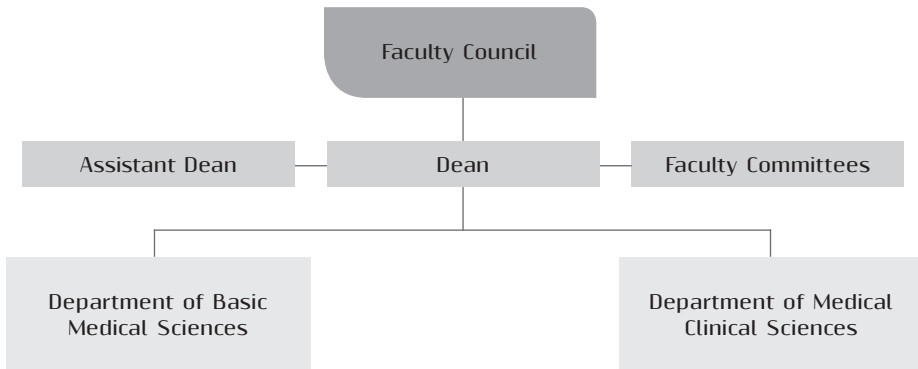
1-Department of Basic Medical Sciences

It includes: Anatomy & Histology, Clinical Physiology, Medical Biochemistry, Basic Pathology, Medical Microbiology and Immunology, Medical Parasitology, and Clinical Pharmacology.

2- Department of Clinical Medical Sciences

It includes: Internal Medicine and medical subspecialties, General Surgery and surgical subspecialties, Pediatric Medicine, Obstetrics and Gynecology, and Community & Preventive Medicine.

The organizational chart of the Faculty is as follows:



Vision

Provide innovation and excellence in medical education and research that respond to community needs and conform to international standards in the 21st century.

Mission

Provide the community with highly qualified, competent and ethical physicians who can efficiently cope with the rapid progress in medical practice and research, and are able to pursue postgraduate studies and continuous professional development.

Objectives

- To provide a high quality medical educational program 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 (M.B.B.Ch)** where the standard duration of the program is six years delivered in 12 semesters.

Admission Requirements

To be accepted for an undergraduate degree, applicants must:

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

Learning Outcomes

On successful completion of this program the student will be able to demonstrate competencies in the following domains:

a. Knowledge and Understanding

By the end of this program, students should be able to describe:

- Normal structure and function of the body systems focusing on topics related to clinical practice
- Molecular, biochemical and cellular mechanisms important to maintain body homeostasis
- Pathologic and physiopathologic disease changes in structure and function
- Risk factors of disease and disease prevention
- Different causes and mechanisms of disease
- Pharmacological principles of drug therapy, their efficacy in the treatment and relief of symptoms and associated adverse reactions
- Principles of non-pharmacological treatments and their role in the management of different

disease aspects

- Organization and structure of the National Health System, principles of healthcare planning, service prioritization, and health economics.
- Methods of disease surveillance, screening and control of communicable diseases.
- Demographic and biological variability in disease spectrum.
- Medical ethics and medico legal principles in the practice of medicine.
- Assessment of health needs and health promotion.
- Development of age-related changes in structure and function of human body.
- Principles of managing patients with impairment, disability or handicap.
- Psychological impact of illness on the patient, family and society.
- Healthcare needs of a multicultural population.

b. Professional and Intellectual Skills

By the end of this program, students should be competent in the following skills:

- Recognize and carry out the initial proper treatment of emergency situations e.g. cardiac arrest, anaphylactic shock and unconscious patient
- Obtain and record a comprehensive patient-centered history
- Perform a systematic physical and mental state examination appropriate for the patient's age, gender, and culture
- Recognize the signs and symptoms of commonly presenting diseases
- Perform important routine clinical procedures
- Identify medical problems and reach a differential diagnosis
- Select appropriate investigations and interpret the results
- Make appropriate clinical decisions based on clinical findings and evidence
- Plan a management strategy appropriate for the patient's age and social circumstances
- Discuss a management plan with the patient and relatives
- Demonstrate appropriate listening skills
- Make appropriate referrals
- Obtain informed consent from a patient
- Provide clear explanations and instructions to patients and relatives
- Solve basic clinical problems
- Negotiate and mediate skills with other members of the health care team
- Deliver a successful teaching session
- Provide feedback on performance to trainees

c. Transferable Skills

By the end of this program, students should be competent in:

- Oral and written communication skills including the presentation of reflective and scientific information
- Use information technology in particular the recording of information and data retrieval
- Apply scientific research principles and audit
- Work effectively as a team member
- Manage time and prioritize tasks

Career Opportunities

- Working as a General Medical Practitioner in primary health care clinics, centers and hospitals after completing an internship year.
- 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 program and becoming a specialist in one of these specialities and / or fellowships.
- Working as Instructors at universities after completing the internship year: A General Medical Practitioner can apply to Postgraduate Studies: Master and MD Degrees.

Graduation Requirements

To receive a Bachelor Degree in Medicine and Surgery (M.B.B.Ch) a student must satisfactorily complete 204 credit hours with an overall minimum grade point average (GPA) of 2.0 + ICDL (International Computer Driving License). The following table summarizes the number of credits required for Bachelor granting program at the Faculty.

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

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 and with some clinical problems through problem-based learning.
- 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,

* A total of 14 credits is required as General University Requirements; 5 credits are selected from the University Mandatory courses list including: ARAB 001 (2Cr.), ENGL 001 (2Cr.), BLAW 001 (1Cr.) and another 9 credits are selected from the University Elective courses list + ICDL.

- The list of university requirement courses and their descriptions are presented in the introductory pages of this catalogue.

Family and Emergency 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 a clinical elective course. In this phase, the students function as sub-interns and they are responsible for their own patients under supervision.

Assessment Strategy

- General Guidelines:

- Continuous assessment is adopted in each module.
- Assessment of knowledge is based on MCQs, Extended Matching Questions, 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').
- Portfolios, log books and supervisors' evaluation of student performance is used in assessing the student's population/community based activities and performance in the clerkship.

- Assessment in Phase I (Pre-clerkship Phase):

- Assessment in this phase is integrated following each module.
- Results are presented as course GPA and cumulative GPAs.

- Assessment in Phase II and III (Clerkship and Pre-internship Phases)

- In these phases, there is a Clerkship Rotations Assessment.
- Clerkship performance evaluation is based on: Active participation in different clinical activities, student's portfolio, and end of module exams.

- Integrated Clerkship Entry Exam

- The Exam is designed to check the acquisition of intended learning outcomes during the first three years.

The First Session is conducted at the end of the Sixth Semester.

- A Second Session for those who didn't pass from the 1st attempt is conducted during the 1st week of the next Fall Semester.

- The student has the right to reattempt the exam twice.

- The student is not permitted to enter the Integrated Clerkship Entry Exam unless his/her CGPA is above 2.

Modules

Courses			Weeks	Crs.
FABL	201	Fabrics of life	7	5
LOCM	202	Locomotor System I	8	6
COHD	203	Concepts of Health and Disease	8	7
LOCM	204	Locomotor System II	7	6
CARD	205	Cardiovascular System	8	7
GITN	206	Gastrointestinal Tract and Nutrition	8	7
RESP	207	Respiratory System	7	5
RENDR	208	Endocrine and Reproduction I	7	7
USRP	301	Urinary System and Reproduction II	7	6
PBGS	302	Problem Based Group Study I	7	7
NESC	303	Neurosciences	8	8
PBGS	304	Problem Based Group Study II	8	7
REPG	306	Research Project	15	4
OBYG	401	Obstetrics and Gynecology	9	9
SURG	402	Surgery	9	9
PEDT	403	Pediatrics	9	9
INTM	404	Medicine	9	9
FMER	501	Family Medicine, ER	9	9
PEDM	502	Pediatrics & Medicine	9	9
ORUR	503	Surgery Subspecialties	9	9
CAPU	504	Cardiology and Pulmonary diseases	9	9
NEPS	601	Neurology & Psychiatry	9	9
SMED	602	Medicine & Surgery	9	9
SUGE	603	Surgical Subspecialties Elective	9	9
INSE	604	Medical Subspecialties Elective	9	9

Description of Modules

PHASE I - YEAR ONE

FABL201 - FABRICS OF LIFE (5Cr.)

This 7 weeks 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.

LOCM 202 - LOCOMOTOR SYSTEM I (6Cr.)

This 8 weeks module introduces students to the structure and function, the general, special and applied aspects of bones, muscles, nerves and joints of the upper limb. 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. Also, students learn how to conduct a medical interview with special emphasis on general communication skills, active listening, speaking strategies, dialogue strategies etc.

COHD 203-CONCEPTS OF HEALTH AND DISEASE (7Cr.)

This 8 weeks 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.

LOCM 204- LOCOMOTOR SYSTEM II (6Cr.)

This 7 weeks module introduces students to structure and function, the general, special and applied aspects of bones, muscles, nerves and joints of the lower limb. The students also learn the organization, function, chemical transmission, and drugs acting on the different parts of the autonomic nervous system. The module involves demographic aspects in relation to disease process including: population pyramids, rates of population growth and population dynamics. Also, students learn how to conduct a medical interview with special emphasis on general communication skills, active listening, speaking strategies, dialogue strategies etc. in addition to clinical skill lab training emphasizing on surface anatomy and examination of muscles & joints.

PHASE I – YEAR TWO**CARD 205-CARDIOVASCULAR SYSTEM (7Cr.)**

This 8 weeks module introduces students to the structure, function, and development of the heart, blood vessels, blood cells and 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 and parasites that affect the cardiovascular system and 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 and 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, and cardiac examination in clinical skill lab. In this module, students learn how to plan strategy for balancing personal and professional demands, effective time management and prioritization of tasks. The students also become aware about professional rights and responsibilities.

GITN 206-GASTRO INTESTINAL TRACT AND NUTRITION (7Cr.):

This 8 weeks 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 & pathological changes in intestinal & 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, 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.

RESP 207-RESPIRATORY SYSTEM (5Cr.)

This 7 weeks module introduces students to the anatomy, embryology & histology 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 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.

RENR 208- ENDOCRINE AND REPRODUCTION I (7Cr.):

This 7 weeks 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 endocrines and female reproductive system and clinical examination in clinical skill lab.

PHASE I - YEAR THREE**USRP 301-URINARY SYSTEM AND REPRODUCTION II (6 Cr.):**

This 7 weeks module introduces students to the structural, functional and pathological aspects of the endocrine system as well the male genital system with their relevant clinical significance as well as infections affecting these systems and 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 and male reproductive system and clinical examination in clinical skill lab.

NESC 303-NEUROSCIENCES (8Cr.):

This 8 weeks module introduces students to fundamentals of the central nervous system, from normal structure and function to pathology of common diseases and their relation to clinical presentations and management. The students study also 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.

PBGS 302-PROBLEM BASED GROUP STUDY I (7 Cr.)

This 7 weeks module is constructed around a number of clinical problems. It enables students to use the basic sciences that they already have studied and the knowledge and skills that they have already gleaned in a conceptual context to construct algorithmic maps for common clinical problems they are going to face in their future career in a critical thinking and clinical-wise approach. The module also introduces the students to research methodology 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.

PBGS 304-PROBLEM BASED GROUP STUDY II (7 Cr.)

This 8 weeks module is meant to help the students to apply knowledge learnt in previous semesters to the understanding of common and important illnesses, conditions and disorders through multi-systems written problems which cover important concepts. The module also introduces the students to research methodology 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.

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 .

PHASE II-YEAR FOUR**OBGY 401-OBSTETRICS & GYNECOLOGY (9Cr.):**

This 9 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 patho-physiology and pharmacology in obstetrics and gynecology. Students are allowed to discuss issues related to normal and abnormal pregnancy, normal and abnormal labor, operative deliveries, bleeding with pregnancy, use of ultrasound in obstetrics and gynecology, medical and surgical diseases with pregnancy. Students are also allowed to discuss issues related to genital prolapse and displacements, pelvic floor dysfunction, uterine fibroids, infertility and assisted reproductive techniques, malignant disorders, contraceptive modalities, and dysfunctional uterine bleeding. 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 perform relevant clinical procedures.

Prereq: FABL201 Fabrics of life, COHD203 Concepts of health and disease, LOCM202 Locomotor system I, LOCM204 Locomotor system II, CARD205 Cardiovascular System, RESP207 Respiratory System, GITN206 Gastrointestinal tract and Nutrition, RENR208 Endocrine and Rep I, USRP301 Urinary System and Rep II, NES303 Neurosciences, PBGS302 Problem based group study 1, PBGS304 Problem based group study 2, REPG306 Research Project.

SURG 402-SURGERY (9Cr.):

This 9 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 patho-physiology and pharmacology in general surgery. Students are allowed to discuss issues related to head and neck swellings, surgical breast disorders, thyroid surgery, surgery of the spleen, 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 perform relevant clinical procedures.

Prereq: FABL201 Fabrics of life, COHD203 Concepts of health and disease, LOCM202 Locomotor system I, LOCM204 Locomotor system II, CARD205 Cardiovascular System, RESP207 Respiratory System, GITN206 Gastrointestinal tract and Nutrition, RENR208 Endocrine and Rep I, USRP301 Urinary System and Rep II, NESC303 Neurosciences, PBGS302 Problem based group study 1, PBGS304 Problem based group study 2, REPG306 Research Project.

PEDT 403-PEDIATRICS (9Cr.):

This 9 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 patho-physiology and pharmacology in paediatric medicine. Students are allowed to discuss issues related to growth and development, common nutritional problems, neonatology, paediatric allergic diseases, paediatric gastroenterology, paediatric infections, paediatric respiratory diseases, paediatric common genetic disorders, paediatric endocrinology. Students also study under-five health services, school health programmes and children with special health care needs. 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.

Prereq: FABL201 Fabrics of life, COHD203 Concepts of health and disease, LOCM202 Locomotor system I, LOCM204 Locomotor system II, CARD205 Cardiovascular System, RESP207 Respiratory System, GITN206 Gastrointestinal tract and Nutrition, RENR208 Endocrine and Rep I, USRP301 Urinary System and Rep II, NESC303 Neurosciences, PBGS302 Problem based group study 1, PBGS304 Problem based group study 2, REPG306 Research Project.

INTM 404-MEDICINE (9Cr.):

This 9 weeks module introduces students 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 patho-physiology and pharmacology in internal medicine. Students are allowed to discuss issues related to some rheumatologic disorders, metabolism diseases and diabetes mellitus, gastrointestinal and hepatobiliary diseases, in addition to endocrines. 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.

Prereq: FABL201 Fabrics of life, COHD203 Concepts of health and disease, LOCM202 Locomotor system I, LOCM204 Locomotor system II, CARD205 Cardiovascular System, RESP207 Respiratory System, GITN206 Gastrointestinal tract and Nutrition, RENR208 Endocrine and Rep I, USRP301 Urinary System and 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 and EMERGENCY MEDICINE (9Cr)**

This 9 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 patho-physiology and pharmacology in family and emergency 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. In addition, students are exposed to challenging emergency through training in ER departments. 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. Prereq: PEDT403 Pediatrics , INTM404 Medicine , OBGY401 Obstetrics and Gynecology , SURG402 Surgery.

PEDM 502- MEDICINE & PEDIATRICS (9 Cr: 3Lec,6Cln)

In this 9 weeks module students will continue the study some issues in internal and pediatric medicine.

Students are allowed to discuss issues related to blood disorders, renal diseases in adults and in pediatric medicine. In addition, students will study pediatric endocrinology, pediatric neurology, and pediatric cardiology. 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.

Prereq: PEDT403 Pediatrics , INTM404 Medicine , OBGY401 Obstetrics and Gynecology , SURG402 Surgery.

ORUR 503- SURGERY SUBSPECIALTIES (9Cr: 3Lec, 6Cln)

This 9 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 patho-physiology and pharmacology in orthopedic and uro surgery. 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, and birth injuries. In addition, students will study cancer prostate, bladder cancer, benign prostatic hyperplasia, ureteric tumors, renal pelvic tumors, renal cell carcinoma, renal and ureteric stones, testicular tumors, urolithotomy. 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.

Prereq: PEDT403 Pediatrics , INTM404 Medicine , OBGY401 Obstetrics and Gynecology , SURG402 Surgery.

CAPU 504- CARDIOLOGY & PULMONARY DISEASES (9 Cr: 3Lec, 6Cln)

This 9 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 patho-physiology and pharmacology in cardiology and 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, and dysrhythmias. In addition, students will study hemoptysis and chest pain, wheezes, dyspnea and cough, bronchial asthma, COPD, community-acquired and nosocomial pneumonia, suppurative lung diseases, tuberculosis in adults and in children, interstitial lung diseases and occupational lung disease, bronchogenic carcinoma, benign lung tumors and mediastinal syndrome, pleural diseases, and pulmonary embolism. 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.

Prereq: PEDT403 Pediatrics, INTM404 Medicine, OBGY401 Obstetrics and Gynecology, SURG402 Surgery.

Phase III (Pre internship Phase)**NEPS 601- NEUROLOGY AND PSYCHIATRY (9 Cr)**

This 9 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 patho-physiology 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 & 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 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.

SMED 602- MEDICINE AND SURGERY (9 Cr)

This 9 weeks modules 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 clinical staff members are the main contributors in this course. Students are allowed to discuss issues related to some infectious diseases and geriatric medicine. In addition, students will study some surgical presentations.

SUGE 603-SURGICAL SUBSPECIALTIES ELECTIVE (9 Cr)

This 9 weeks module introduces students to clinical learning and 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 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.

INSE 604-MEDICAL SUBSPECIALTIES ELECTIVE (9 Cr)

This 9 weeks module introduces students to clinical learning and 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 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.

Study Plan

Bachelor of Medicine & Surgery (204 Credit Hours)

PHASE I (Pre clerkship Phase)

First Semester (14 Credits)-(15 weeks)			Weeks	Crs.
FABL	201	Fabrics of life	7	5
COHD	203	Concepts of Health and Disease	8	7
*SSC				2

Second Semester (16 Credits)-(15 weeks)			Weeks	Crs.
LOCM	202	Locomotor System I	8	6
LOCM	204	Locomotor System II	7	6
*SSC				4

Third Semester (16 Credits)-(15 weeks)			Weeks	Crs.
CARD	205	Cardiovascular System	8	7
RESP	207	Respiratory System	7	5
*SSC				4

Fourth Semester (18 Credits)-(15 weeks)			Weeks	Crs.
GITN	206	Gastrointestinal tract and Nutrition	8	7
RENH	208	Endocrine and Reproduction I	7	7
*SSC				4

*SSC: Student Selected Component (Elective).

Fifth Semester (14 Credits)-(15 weeks)			Weeks	Crs.
USRP	301	Urinary System & Reproduction II	7	6
NESC	303	Neurosciences	8	8

Sixth Semester (18 Credits)-(15 weeks)			Weeks	Crs.
PBGS	302	Problem Based Group Study I	7	7
PBGS	304	Problem Based Group Study II	8	7
REPG	306	Research Project	15 W in Parallel with other modules	4

PHASE II (Clerkship Phase)

Seventh Semester (18 Credits)-(18 weeks)			Weeks	Crs.
Block I:				
OBYG	401	Obstetrics and Gynecology	9	9
PEDT	403	Pediatrics	9	9
OR				
Block II:				
SURG	402	Surgery	9	9
INTM	404	Medicine	9	9

- Students will be divided into 2 groups , each group should register in One Block Only per Semester.

Eighth Semester (18 Credits)-(18 weeks)			Weeks	Crs.
Block I:				
OBYG	401	Obstetrics and Gynecology	9	9
PEDT	403	Pediatrics	9	9
OR				
Block II:				
SURG	402	Surgery	9	9
INTM	404	Medicine	9	9

- Students will be divided into 2 groups , each group to register in one block only per Semester.

NB: The 7th and 8th semester modules are pre-requisites for the next semesters.

Ninth Semester(Beirut)-(18 Credits)-(18 weeks)			Weeks	Crs.
Block I:				
FMER	501	Family Medicine, ER	9	9
ORUR	503	Surgery Subspecialties	9	9
OR				
Block II:				
PEDM	502	Pediatrics & Medicine	9	9
CAPU	504	Cardiology and Pulmonary diseases	9	9

- Students will be divided into 2 groups , each group should register in one block only per Semester.

Tenth Semester (18 Credits)-(18 weeks)			Weeks	Crs.
Block I:				
FMER	501	Family Medicine, ER	9	9
ORUR	503	Surgery Subspecialties	9	9
OR				
Block II:				
PEDM	502	Pediatrics & Medicine	9	9
CAPU	504	Cardiology and Pulmonary diseases	9	9

- Students will be divided into 2 groups , each group should register in one block only per Semester.

PHASE III (Pre internship Phase)

Eleventh Semester (18 Credits)-(18 weeks)			Weeks	Crs.
Block I:				
NEPS	601	Neurology & Psychiatry	9	9
SUGE	603	Surgery Subspecialties Elective	9	9
OR				
Block II:				
SMED	602	Medicine & Surgery	9	9
INSE	604	Internal Medicine Subspecialties Elective	9	9

- Students will be divided into 2 groups , each group should register in one block only per Semester.

Twelfth Semester (18 Credits)-(18 weeks)			Weeks	Crs.
Block I:				
NEPS	601	Neurology & Psychiatry	9	9
SUGE	603	Surgery Subspecialties Elective	9	9
OR				
Block II:				
SMED	602	Medicine & Surgery	9	9
INSE	604	Medical Subspecialties Elective	9	9

- Students will be divided into 2 groups , each group should register in one block only per Semester.