FACULTY OF MEDICINE & MEDICAL SCIENCES

ST. GEORGE FACULTY OF POSTGRADUATE MEDICAL EDUCATION

FACULTY LIST

OFFICERS OF THE FACULTY

Salem, Elie President of the University

Bashour, Tali' Honorary Vice President for Medical Affairs in the US
Karam, Nadim
VicePresidentforHealthAffairsandCommunityDevelopment
Nahas, George
Vice President for Planning and Educational Relations
Najjar, Michel
Vice President for Development and Public Affairs

Nassar, Camille Dean

Moubayed, Walid Dean of Admissions and Registration

Ayoub, Olga Librarian

FACULTY STAFF

Abdallah, Chirine Secretary
Al-Ammar, Monzer Grace Secretary

Chaar, Madi Micheline Executive Secretary
Copti, Razzouk Majd Executive Secretary
Farah, George Administrative Assistant

Makary, Sally Secretary

FACULTY MEMBERS

DEPARTMENT OF BIOMEDICAL SCIENCES Dr. Maha KHACHAB- Chairperson

BAHR Georges Professor of Immunology and Virology

ECHTAY Karim Professor of Biochemistry

DAOUD Ziad Professor of Clinical Microbiology

NASSAR Camille Professor of Physiology ZAHED Laila Professor of Cytogenetics

KHACHAB Maha Associate Professor of Neuroscience and Physiology

HAWI Jihad Assistant Professor of Anatomy KANAAN Amjad Assistant Professor of Physiology

OJAIMI (AL) Maud Assistant Professor of Pediatrics and Pharmacology

DOUEIHY Youssef Lecturer- General Surgery- Anatomy
HALABI Jamil Lecturer - General Surgery - Anatomy
NABBOUT Ghassan Lecturer - General Surgery - Gross Anatomy

NEHME Ziad Instructor – Medical Engineering

OSMAN Samira Research Assistant

UNIVERSITY HEALTH CENTER Dr. Antoun SALEM- Coordinator

JURAYJ Wafaa Internal Medicine (Infectious Diseases)

NASSIF SALEH Doris Family Medicine
OJAIMI (AL) Maud Pediatrics
RAZZOUK Jibrayil Family Medicine

SALEM Antoun Internal Medicine (Gastroenterology)

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DEPARTMENT OF MEDICINE

Dr. Gide JABBOUR-Chairman

AFIF Claude Professor of Clinical Medicine (Infectious Diseases) AKAR Joseph Professor of Clinical Medicine (Cardiology)

BAHOUS Joudy Professor of Clinical Medicine (Pulmonary Medicine) CHAMSEDDINE Nabil Professor of Clinical Medicine (Hematology / Oncology) Professor of Health Sciences & Family Medicine KARAM Nadim WAKED Mirna Professor of Clinical Medicine (Pulmonary Medicine) Clinical Professor of Medicine (Gastroenterology) AOUN Jean Paul NASR Edgar Clinical Professor of Medicine (Nephrology)

LAMEIRE Norbert Adjunct Professor of Medicine (Nephrology) ABI RACHED MEGARBANE Hala Associate Professor of Clinical Dermatology AMMOURY Alfred Associate Professor of Clinical Dermatology

AZAR Eid Associate Professor of Clinical Medicine (Infectious

Diseases)

BASSIL Nazem Associate Professor of Clinical Family Medicine

CHIDIAC WEHBE Rita Maria Associate Professor of Clinical Medicine (Endocrinology) CHOUAIRI Salah Associate Professor of Family Medicine (Cardiology) JABBOUR Rosette Associate Professor of Clinical Medicine (Neurology)

Associate Professor of Clinical Dermatology SAAD (EL) DEBAHY Nada

AOUAD Antoine Clinical Associate Professor of Medicine (Neurology) DIB Hisham Clinical Associate Professor of Medicine (Cardiology)

KARAM EL KEHDY Paula Clinical Associate Professor of Dermatology

SAAD Antoine Clinical Associate Professor of Medicine (Infectious

Diseases)

ABBOUD Johnv Assistant Professor of Clinical Medicine (Cardiology) ABOU JAOUDE Fadi Assistant Professor of Clinical Medicine (Cardiology) ABOU SALBI Michel Assistant Professor of Clinical Family Medicine

Assistant Professor of Clinical Medicine (Rheumatology) AZAR Lama

Assistant Professor of Clinical Medicine BEDRAN Khalil

(Gastroenterology)

BOU KHALIL-FARHAT Roula Assistant Professor of Clinical Medicine (Endocrinology) CHAHROURI Joseph Assistant Professor of Clinical Medicine (Rheumatology) Assistant Professor of Clinical Medicine (Cardiology) **CHARBEL Paul**

CORTAS Georges Assistant Professor of Clinical Medicine

(Gastroenterology)

Assistant Professor of Clinical Medicine **FARHAT Said**

(Gastroenterology)

GHARIB Nader Assistant Professor of Clinical Medicine (Cardiology) **GHOLAM Dany** Assistant Professor of Clinical Medicine (Hematology/

Oncology)

Assistant Professor of Clinical Medicine (Nephrology) JOUBRAN-FARES Najat

JABBOUR Gide Assistant Professor of Clinical Medicine

(Gastroenterology)

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Medicine)

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KHOURY (EL) Salem Assistant Professor of Clinical Medicine

(Gastroenterology)

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Oncology)

MAALOUF Assaad Assistant Professor of Clinical Medicine (Cardiology)
MAALOUF Nancy Assistant Professor of Clinical Medicine (Neurology)
MAKDESSI Joseph Assistant Professor of Clinical Medicine (Hematology /

Oncology)

MOURAD-AJAKA Aline Assistant Professor of Clinical Medicine (Neurology)
SAID Rabih Assistant Professor of Clinical Medicine (Hematology /

Oncology)

SAMMOUR MEDAWAR Rita Assistant Professor of Clinical Medicine (Dermatology)
SAWAN Carla Assistant Professor of Clinical Medicine (Endocrinology)
STEPHAN Elias Assistant Professor of Clinical Family Medicine
WANSA Nader Assistant Professor of Clinical Medicine (Cardiology)

WANSA Nader Assistant Professor of Clinical Medicine (Cardiology)
AZAR Nabil Adjunct Assistant Professor of Medicine (Neurology)
HAJJ (EL) Mirna Clinical Assistant Professor of Medicine (Hematology /

Oncology)

KHOURY Nabil Clinical Assistant Professor of Medicine (Pulmonary

Medicine)

RASSAM Paul Clinical Assistant Professor of Medicine

(Gastroenterology)

TOUMA Dany Clinical Assistant Professor of Medicine

(Gastroenterology)

WAKIM Saria Clinical Assistant Professor of Medicine (Endocrinology)

ATALLAH Paola
Lecturer of Clinical Medicine (Endocrinology)
DERIAN Jean
Lecturer of Clinical Medicine (Allergology)
ASFAR Elias
Clinical Lecturer of Medicine (Allergology)
HITTI Michel
Clinical Lecturer of Medicine (Rheumatology)
ABOU RIZK Fadi
Instructor of Clinical Medicine (Pulmonary Medicine)

CHALLITA Antoine
GERGES Zeina
Instructor of Clinical Family Medicine
Instructor of Clinical Family Medicine
Instructor of Clinical Medicine (Cardiology)
ABOU JAOUDE Walid
Clinical Instructor of Medicine (Nephrology)
HALLAK Mona
Clinical Instructor of Medicine (Gastroenterology)
RAHI (EL) Sami
Clinical Instructor of Medicine (Neurology)
SAYED (EL) Ali
Clinical Instructor of Medicine (Cardiology)

SFEIR Mireille Clinical Instructor of Medicine (Pulmonary Medicine)

KAADI Noura Clinical Associate
REBEIZ Celine Clinical Associate
BRAX Hneine Clinical Associate

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NACHANAKAIN Antoine Professor of Clinical Surgery (Neurosurgery)
ABOU JAOUDE Maroun Clinical Professor of Surgery (General Surgery)
DAHER Michel Clinical Professor of Surgery (General Surgery)
DAOU Robert Clinical Professor of Surgery (General Surgery)

ABOU KHALIL Bassam Associate Professor of Clinical Surgery (Cardiothoracic

Surgery)

ASSAF George Associate Professor of Clinical Surgery (Urology)
CHIKHANY Ghassan Associate Professor of Clinical Surgery (Vascular

Surgery)

GHAZAL Georges Associate Professor of Clinical Surgery (Urology)
HAGE Paul Associate Professor of Clinical Surgery (Neurosurgery)

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KREIDY Raghid Associate Professor of Clinical Surgery (Vascular

Surgery)

RASSI (EL) Ziad Associate Professor of Clinical Surgery (General Surgery)

Clinical Associate Professor of Surgery (Pediatric DIAB Nabil

Surgery)

ABDELNOUR Amir Senior Lecturer of Clinical Surgery (General Surgery) Clinical Senior Lecturer of Surgery (Plastic Surgery) **HOJEILI Souheil** FEGHALY (EL) Michel Assistant Professor of Clinical Surgery (Vascular Surgery)

GHANTOUS Imad Assistant Professor of Clinical Surgery (Urology) IBRAHIM Ibrahim Assistant Professor of Clinical Surgery (Neurosurgery) Assistant Professor of Clinical Surgery (Urology) KHOURY (EL) Fouad ZANKOUL Fuad Assistant Professor of Clinical Surgery (Cardiothoracic

ABDELHAK Elie Clinical Assistant Professor of Surgery (Plastic Surgery) Clinical Assistant Professor of Surgery (Cardiothoracic ABI GHANEM Moussa

ALAYWAN Moussa Clinical Assistant Professor of Surgery (Neurosurgery) MALEK Alexandre Clinical Assistant Professor of Surgery (General Surgery) MATTA Reva

Clinical Assistant Professor of Surgery (Pediatric

Surgery)

Clinical Assistant Professor of Surgery (Plastic Surgery) MEDAWAR Charbel Clinical Assistant Professor of Surgery (Urology) NOHRA Joe Clinical Assistant Professor of Surgery (Cardiothoracic YOUSSEF Pierre

Surgery)

ZEIDAN Smart Clinical Assistant Professor of Surgery (Pediatric Surgery)

Clinical Lecturer of Surgery (General Surgery) HACHACHE (EL) Khalil **HAJJAR Nicolas** Clinical Lecturer of Surgery (General Surgery) Instructor of Clinical Surgery (Vascular Surgery) **BAAKLINI Gerges** Clinical Instructor of Surgery (Plastic Surgery) ABI NAKHOUL Fadi ARBID Bahaa Clinical Instructor of Surgery (Plastic Surgery) LAWAND DAOU Souhaïla Clinical Instructor of Surgery (Plastic Surgery)

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MAALOUF Fadi Clinical Assistant Professor of Ophthalmology Clinical Assistant Professor of Ophthalmology NASR Youssef

Clinical Lecturer of Ophthalmology SALIBA DAHER Lina Clinical Instructor of Ophthalmology ALAM (EL) Dany

SAMMOUH Fady Clinical Associate

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MOUCHARAFIEH Ramzi Clinical Professor of Orthopedic Surgery

HADDAD Fady
NEHME Alexandre
RASSI (EL) Georges
CORTBAOUI Chawki
DAOU Elie
MELKI Roger

Associate Professor of Clinical Orthopedic Surgery
Associate Professor of Clinical Orthopedic Surgery
Cortage Associate Professor of Clinical Orthopedic Surgery
Assistant Professor of Clinical Orthopedic Surgery
Clinical Assistant Professor of Orthopedic Surgery
MELKI Roger

Associate Professor of Clinical Orthopedic Surgery
Cortage Assistant Professor of Orthopedic Surgery
Clinical Assistant Professor of Orthopedic Surgery

HABIB Assaad Clinical Lecturer of Orthopedic Surgery
HADDAD (EL) Ibrahim Clinical Instructor of Orthopedic Surgery
HIJJAWI Ayman Clinical Instructor of Orthopedic Surgery
RIACHI Marc Clinical Instructor of Orthopedic Surgery

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Surgery

CHAMI Gabriel Associate Professor of Clinical Otorhinolaryngology-Head

& Neck Surgery

FATA (EL) Fouad Associate Professor of Clinical Otorhinolaryngology-Head

& Neck Surgery

JAKLIS Antoine Associate Professor of Clinical Otorhinolaryngology-Head

& Neck Surgery

KHOURY Jihad Associate Professor of Clinical Otorhinolaryngology-Head

& Neck Surgery

FAKHOURY Raja Assistant Professor of Clinical Otorhinolaryngology-Head

& Neck Surgery

HAWAT (AL) Anthony Assistant Professor of Clinical Otorhinolaryngology-Head

& Neck Surgery

KARDOUS Rafle Clinical Lecturer of Clinical Otorhinolaryngology-Head

& Neck Surgery

SNAIFER Patrick Instructor of Clinical Otorhinolaryngology-Head

& Neck Surgery

ADHAMI Maya Clinical Instructor of Otorhinolaryngology-Head

& Neck Surgery

DEPARTMENT OF OBSTETRICS AND GYNECOLOGY Dr. Rana SKAF SFEIR – Chairperson

KEHDY (EL) Georges

Associate Professor of Clinical Obstetrics and Gynecology
Senior Lecturer of Clinical Obstetrics and Gynecology
GHANEM Joseph
Clinical Senior Lecturer of Obstetrics and Gynecology
ANASTASIADES Elie
CHAMMAS Mary
Assistant Professor of Clinical Obstetrics and Gynecology

SKAF-SFEIR Rana Assistant Professor of Clinical Obstetrics and Gynecology SNAIFER Elie Assistant Professor of Clinical Obstetrics and Gynecology

ROUHANA FEGHALY Joe Instructor of Clinical Obstetrics and Gynecology Clinical Instructor of Obstetrics and Gynecology KHALIFE Joe NOHRA Charles Clinical Instructor of Obstetrics and Gynecology Clinical Instructor of Obstetrics and Gynecology PAPAS Ralph

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KARAVETIAN Boghos Clinical Lecturer of Anesthesiology Instructor of Clinical Anesthesiology HAJJ (EL) Viviane TABBAL Jean Elie Instructor of Clinical Anesthesiology KAFROUNI Hazem Instructor of Clinical Anesthesiology MAROUN Walid Instructor of Clinical Anesthesiology Clinical Instructor of Anesthesiology SFEIR Rouphael

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FAYYAD John Associate Professor of Clinical Psychiatry NASSER KARAM Aimée Associate Professor of Clinical Psychology **KARAM Georges** Assistant Professor of Clinical Psychiatry CASSIR HADDAD Youmna Instructor of Clinical Psychology CORDAHI TABET Caroline Instructor of Clinical Psychology

DEPARTMENT OF PEDIATRICS Dr. Elie ARAMOUNI - Chairman

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ARAMOUNI Elie Associate Professor of Clinical Pediatrics BAZ Zeina Associate Professor of Clinical Pediatrics Associate Professor of Clinical Pediatrics **GHABRIL Ramy HMAIMESS Ghassan** Associate Professor of Clinical Pediatrics KAMEL Raymond Associate Professor of Clinical Pediatrics NASSIF Yolla Associate Professor of Clinical Pediatrics FARAH Roula Clinical Associate Professor of Pediatrics Clinical Associate Professor of Pediatrics **RAJAB NAJA Mariam** SAHYOUN Samira Clinical Associate Professor of Pediatrics ABOU JAOUDE Pauline Assistant Professor of Clinical Pediatrics **CHOUKAIR Mary** Assistant Professor of Clinical Pediatrics **HAGE Pierre** Assistant Professor of Clinical Pediatrics HAMOD (AL) Dany Assistant Professor of Clinical Pediatrics HAJJE (EL) Marie Joelle Assistant Professor of Clinical Pediatrics KHOURY (EL) Dany Assistant Professor of Clinical Pediatrics Assistant Professor of Clinical Pediatrics MANSOUR Hicham Assistant Professor of Clinical Pediatrics MOUAWAD Pierre AZZI Antonio Clinical Assistant Professor of Pediatrics NOUN Peter Clinical Assistant Professor of Pediatrics SAYAD Alain Clinical Assistant Professor of Pediatrics SOKHN Maroun Clinical Assistant Professor of Pediatrics **BECHARA Elie** Instructor of Clinical Pediatrics FAYAD Wissam

Instructor of Clinical Pediatrics KARAM Simon K. Clinical Instructor of Pediatrics

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Clinical Instructor of Radiology

ACHRAM Mitri Professor of Clinical Radiology KARAM Maroun Visiting Clinical Professor of Radiology Associate Professor of Clinical Radiology CHEMALI Rami CHAMSEDDINE Abbas Clinical Associate Professor of Radiology ADEM Carmen Assistant Professor of Clinical Radiology ASHOU Raja Assistant Professor of Clinical Radiology **FAYAD Emilie** Instructor of Clinical Radiology

DEPARTMENT OF PATHOLOGY

Dr. Imad HAJJ - A/Chairman

ABI GHOSN Jean

MANSOUR Amira Professor of Pathology Adjunct Professor of Pathology ABDUL KARIM Fadi Associate Professor of Pathology GHANDOUR HAJJ Fatima MEGUERIAN BEDOYAN Zarouhie Assistant Professor of Pathology CHOUAIRY Camil Assistant Professor of Pathology ARNAOUT Micheal Clinical Associate in Pathology

DEPARTMENT OF LABORATORY MEDICINE Dr. Noha HAKIME - Chairperson

IRANI-HAKIME Noha Professor of Clinical Laboratory Medicine SAMAHA Hanady Associate Professor of Clinical Laboratory Medicine

EMERGENCY MEDICINE Dr. Pierre KHALIFE - Coordinator

KHALIFEH Pierre Assistant Professor of Clinical Emergency

Medicine

ACHKAR (EL) Rony Instructor of Clinical Emergency Medicine DAOU Ibrahim Instructor of Clinical Emergency Medicine

COMMUNITY HEALTH CLINIC Dr. Georges JUVELEKIAN – Coordinator

KLEIMEH Nelly Clinical Associate SAHYOUN François Clinical Associate

FACULTY OF MEDICINE & MEDICAL SCIENCES

MEDICAL PROGRAM

Medical education at the University of Balamand begins with the first two years at the main campus of the University located on the Hill of Balamand overlooking the coastal area of Al-Kurah, Northern Lebanon. The four-year MD program is completed with two years of clinical training at St. George Hospital University Medical Center (founded 1878) in Achrafieh – Beirut; one of Lebanon's leading tertiary care medical centers.

The four years of education and clinical patient-oriented training form an integrated modular continuum that emphasizes an analytical inquisitive process of learning based on active hands-on acquisition of knowledge and skills through closely supervised and tutored teamwork. This allows students to expand their knowledge in basic as well as applied medical sciences and build professional character, skills and problem solving abilities. All are essential as foundations for postgraduate training and leadership in providing quality health care.

Institutional affiliations with leading centers of excellence in Europe and North America facilitate transfer of knowledge and extensive academic and professional exposure of students and faculty. Moreover; such affiliations allow interested students – especially those with a dual nationality- to study in other facilities and medical centers.

CURRICULUM

Academic goals and objectives are approached and achieved through a modular integrated curriculum that advocates:

- 1. Character building resulting in responsible behavior, professionalism, ethics, advanced internal accountability, perpetual lifelong learning, advocacy, commitment to human rights, and proactive community involvements.
- Dynamic integration of basic and clinical medical and health sciences with actual clinical training and emphasis on the integral relationship between basic medical sciences and social sciences in building intellectual and professional capacity for problem solving skills.
- 3. Early exposure to the fields of medical practice.
- 4. A learning perspective and approach that emphasizes the importance of team dynamics and spirit and the value of distance learning and appropriate use of interactive electronic resources.
- Emphasis on the value of sciences, research and excellence with particular concentration on the multidisciplinary perspective of medicine and health and the fundamental leadership role of the physician in team dynamics.
- 6. Providing students with the means to find value and reward in doing the same with peers, team members, patients, family members and the community at large.
- 7. Building problem solving and fact-finding capacity with particular emphasis on evidence as an integral and fundamental component of decision-making.
- 8. Taking advantage of the information revolution and learning successful innovative approaches to medical education.

ADMISSIONS

Candidates are selected on the basis of academic record and personal characteristics as evaluated by the Admissions Committee chaired by the Dean. Attributes of importance include:

1. Academic Record

- A. Bachelor's degree or the equivalence of 3 years of higher educational studies in a recognized institution.
- B. Completion of premedical requirements as follows:
- 1. Biology/Zoology/Embryology/Genetics with a laboratory component. 8 credits- minimum of 2 courses
- 2.Chemistry (General- Organic- Inorganic) with laboratory components. 12 credits- minimum of 3 courses
- 3. Physics/ Basic Electronics with laboratory components 6 credits- minimum of 2 courses
- 4. Cultural Studies. At least 6 credits
- 5. Academic Performance
- D. Medical College Admission Test (MCAT) scores
- E. English Language Competency
- F. Computer Literacy

The Faculty is ready to offer in cooperation with the Faculty of Sciences, an intensive remedial program oriented towards preparing students from different majors. Within the same context, students of the premed program can major into either Biology or Chemistry if they wish to change after their Junior year.

2. Personal characteristics

- A. Communication capabilities, ability and potential to function as a team player.
- B. Character, extracurricular interests, diversity of experience and extent of involvement in community based activities.
- C. Achievements in research projects and/or medically related topics.
- D. Understanding of the profession of medicine and interest in a career within the context of this profession.

3. Admissions process

The admissions process includes:

- 1. Evaluation of a completed application to the Faculty.
- 2. Evaluation of all required documentation including:
- a. Official academic transcripts.
- b. MCAT scores.
- c. Three reference letters.
- 3. A personal interview

Applicants are ranked by the Admissions Committee in a transparent and structured manner and are advised in writing of the result of the process.

ACADEMIC REGULATIONS

A. GRADING SYSTEM

There will be six levels of grades given: Honors, Very Good, Good, High Pass, Pass and Fail.

H = Top 10% grades of the class

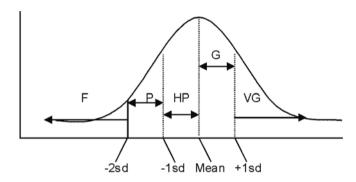
VG = Very Good (VG > Mean + 1sd)

G = Good (Mean < G < Mean + 1sd)

HP = High Pass (Mean - 1sd < HP < Mean)

P = Pass (Mean - 2sd < P < Mean - 1sd)

F = Fail (F < Mean - 2sd)



B. ATTENDANCE

Students are required to attend all classes, laboratories, clerkships, examinations and any other assigned work. Credit is not given for incomplete work or for work not performed. Students absent for illness or any other valid reason are required to make-up for the missed work. The Director of the course or the Department concerned assigns remedial work for work not performed. Make-up examinations are graded by Pass or Fail.

C. PROMOTIONS

Students who pass all the courses or clerkships will be promoted to the next higher class. However, a student with a grade of Pass in all courses or clerkships but is deemed not ready for promotion may be asked by the Academic Committee to pass a make-up examination in a designated course or repeat the year.

D. DEFICIENCIES

A student in Medicine I or Medicine II classes who fails less than 12 credits may be asked to do remedial work and pass make-up examinations in the designated course(s) or repeat the year. A student who fails a make-up examination will be asked to repeat the year. A student in Medicine I or Medicine II classes who fails more than 12 credits may be asked either to repeat the year or to withdraw from the Faculty.

A student in Medicine III or Medicine IV classes who fails a clinical clerkship may be asked to do remedial work and pass a make-up exam or repeat the clerkship.

A student who fails more than one clerkship may be asked either to repeat the year or withdraw from the Faculty.

E. INCOMPLETE GRADES

Incomplete grade denotes that a grade has not been determined for a course or clerkship because the student has not completed the assigned work due to extenuating circumstances (e.g. illness, death in the family, accident, etc...). Before a student can be granted an incomplete grade the extenuating circumstances must be validated by the Dean's Office. The incomplete grade will be replaced with a grade upon completion of all course material. The Director of the course determines the deadline for completion of the course requirements provided that it will not exceed one month after the final examination of the course. If the material requested is not completed by the designated deadline, the incomplete grade will be converted to

F. DECELERATION PROGRAM

This curriculum program is designed for students who encounter serious academic difficulty as demonstrated by their performance in the assigned examinations at an early stage in Medicine I. Such students may request to join the decelerated program. If the request is approved they will be given the opportunity to spread out their first year load over two years. A decelerated first year curriculum is structured so that the student will complete it in no more than two years. Deficiencies in the decelerated program are treated according to the Faculty general rules, however students who are unable to complete the decelerated program will be asked to withdraw from the Faculty.

G. READMISSION

If a student is dropped from the program for academic reasons he/she may apply again after leaving the Faculty for a minimum period of one year. The student will be eligible to enroll in the program if he/she obtains another University degree from an institution of higher learning. The re-admitted student must repeat all the courses or clerkships of the year from which he/she was dropped.

H. DISCIPLINARY ACTION

Any student engaged in any ethical misconduct will be referred to the Dean and University Administrative Committee for action. A student may be dropped from the medical program for professional and/or ethical misconduct. If a student is dropped from the Faculty because of a disciplinary action he/she will not be eligible for re-admission.

I. GRADUATION

Any student who satisfactorily completes the curriculum of the four academic years will be eligible for a Doctor of Medicine degree. The degree will be granted with Honors if the student attains an Honors grade in 50% of the courses and clerkships and does not fail any course or clerkship, and is deemed qualified to carry the M.D. degree with Honors.

J. DEAN'S HONOR LIST

To be placed on the Dean's Honor List at the end of an academic year, a medical student must:

- . Rank in the top 10% of his/her class
- . Have no failing or incomplete grades
- . Have no disciplinary action against him/her
- . Be deemed worthy by the Dean to be placed on the Dean's Honor List

K. UNIVERSITY REGULATIONS

All other procedures and regulations follow the University general policy.

COURSE DESCRIPTIONS

INTRODUCTION TO CELL STRUCTURE AND FUNCTION (INTC412)

2 Credits

This course provides an introduction to the fundamental principles in cellular development, division and differentiation, and cellular function. This course is also intended to direct the attention of first year medical students to the importance of medical embryology in bridging microscopic anatomy, cellular physiology and clinical science.

BLOOD & CARDIOVASCULAR MEDICINE: STRUCTURE & FUNCTION (CARD413) 3 Credits

This course is designed to present an integrated knowledge of the normal cardiovascular system to first year medical students. The course discusses hematopoiesis, blood components, and the main mechanisms of hemostasis and directly correlates the gross anatomy of the heart with the cardiac function and the cardiac muscle excitation and contraction cycles. Histology of the heart and blood vessels and live ultrasonic imaging complement the didactic information given. The course describes as well the development of the heart and vessels during organogenesis and the remodeling of the fetal circulation into the adult pattern, and discusses the principles of hemodynamics in the macro and microcirculation leading to the integrated responses of the cardiovascular system that regulate organ flow, blood pressure, and cardiac output.

The course format includes lectures, laboratory sessions, and discussions and analysis of a series of clinical cases pertaining to selected clinical cardiovascular abnormalities to introduce students to basic pathophysiology and pathology.

ENDOCRINE AND REPRODUCTIVE MEDICINE: STRUCTURE & FUNCTION (ENDO413)

3 Credits

This course is designed for first year medical students to develop a thorough knowledge about hormone synthetic pathways and mechanisms of action in order to understand the multifaceted clinical conditions that may arise as a consequence of a developmental anomaly, an abnormal hormonal environment, or an inability to respond to hormonal stimuli. The course also emphasizes the hormonal regulation of the male and female reproductive cellular organization and functions in development and adulthood. The course format includes lectures, laboratory sessions, and a series of selected clinical applications.

GASTROINTESTINAL MEDICINE: STRUCTURE & FUNCTION (GAST413) 3 Credits

This course sets the framework for the understanding of the microscopic and gross organization as well as the principal functions of the GI system. The course focuses on the main regulatory mechanisms of GI function and discusses the processes of motility, secretion, digestion and absorption, elimination, and biliary secretion and excretion.

The course format includes lectures, laboratory sessions, and a series of selected clinical problems to emphasize to first year medical students the significance of basic science in the understanding of clinical applications.

THE MUSCULOSKELETAL SYSTEM: STRUCTURE & FUNCTION (MUSK424) 4 Credits

This course provides first year medical students with a detailed knowledge of the development, form, and function of the normal musculoskeletal system. The course describes the microscopic, gross, and functional anatomy of the back and upper and lower limbs as well as the blood, lymphatic, and nerve supply. This course also focuses on skeletal muscle physiology and the mechanisms of neural control of skeletal muscle function. The course format includes lectures, laboratory sessions, and a series of clinical correlations in order for students to develop a functional understanding of bones, tendons, joints, and muscles and their innervation and mechanisms of action in health, injuries, and disease.

RENAL MEDICINE: STRUCTURE & FUNCTION (RENL412)

2 Credits

This course provides first year medical students with an integrated knowledge of the basic structure and function of the renal system. The microscopic and gross anatomy is directly correlated with the excretory and

homeostatic functions of the urinary system. The mechanisms of urine formation along with the concept of renal clearance and its clinical applications, as well as the role of the kidney in regulating plasma osmolarity, ECF volume, blood pressure, sodium, potassium, and calcium concentrations, and acid/base balance are discussed at length. The sequential embryonic stages of development of the kidney, ureters, and bladder are also presented. This detailed theoretical information is complemented by gross dissection of the pelvis, histologic slides of the urinary system, and live ultrasound imaging. Clinical correlations are incorporated throughout the lectures, including micturition disorders, congenital diseases, acid base and ionic disorders, glomerular diseases, stones, renal failure, as well as a brief of overview of dialysis.

PULMONARY MEDICINE: STRUCTURE & FUNCTION (PULM412)

2 Credits

This course emphasizes the anatomy and the homeostatic function of the respiratory system. Microscopic and gross organization of the respiratory system set the background for the discussion of the main structures involved in breathing and their interactions in the initiation of inspiration and expiration, the three primary processes of ventilation, diffusion, and perfusion, and the assessment of lung function. This course also focuses on the mechanisms involved in the transport of gases between the lungs and tissue capillaries as well as on the neural and chemical control systems. The course format includes lectures, laboratory sessions, and a series of selected clinical problems to emphasize to first year medical students the significance of the acid-base balance and the clinical problems that may arise in conditions of hypoxia or hyperoxia.

HEAD & NECK AND BASIC NEUROSCIENCE (HNBN426)

6 Credits

This course enables first year medical students to acquire an integrated knowledge foundation in the development, microscopic structure, gross anatomy, physiology, and radiology of the head and neck and the human nervous system. This interdisciplinary course also sets the structural framework for the understanding of gross anatomy principles and anatomic relationships, basic mechanisms in neurophysiology, organization and function of sensory and motor systems, and clinical applications of this information.

The course format includes lectures, laboratory sessions, and a series of small group discussions of case-based problems that reinforce the concepts of gross anatomy and basic neuroscience in order for students to develop analytical thinking skills in clinical problem solving.

MEDICAL BIOCHEMISTRY & NUTRITION (BIOC 406)

6 Credits

The course is designed to incorporate the fundamental aspects of biochemistry in a series of lectures and clinical correlations. The objective of the course is to provide the student with an integrated view of biochemistry. Topics include structures and functions of biomolecules, mechanism of enzyme action, bioenergetics, major pathways and control mechanisms in human metabolism. Additionally, the course introduces principles of nutrition and a brief description of prevention and management of selected diseases with diet.

MEDICAL GENETICS (MGEN 402)

2 Credits

The course is designed to introduce the students to the fundamental concepts in human genetics at molecular, cellular, and clinical levels. It details the principles of classical genetics, biochemistry of nucleic acids, control of gene expression, gene therapy, and investigates recent developments in genetic technology.

IMMUNOLOGY (IMUN 402)

2 CREDITS

The course allows medical students to examine the cellular and molecular functions of the immune system. It details the events taking place during the immune response, immune recognition, and immune effector function.

MEDICAL ETHICS (METH 401)

1 Credit

The course is designed to introduce the medical student to the ethical principles governing the medical profession such as duties of physicians, patients' rights, informed consent and refusal of treatment, confidentiality, good clinical practice, medical research, organ transplantation, mental disorders and disabilities, and life and death.

NORMAL HUMAN BEHAVIOR (NPSY 402)

2 Credits

The course seeks to introduce medical students to the normal and abnormal human development and behaviors.

It focuses on the major influences of human behavior, psychological, biological, and cultural factors, to stress their roles in the development and presentation of diseases. It is also designed to introduce students to the roles of neural systems serving human behaviors such as emotions, memory, intellect, perception, addictions, motivation, and reward.

BIOSTATISTICS and EPIDEMIOLOGY (EPST 402)

2 Credits

This course provides an introduction to the basic principles and applications of biostatistics and epidemiology, as they are applied to problems in clinical and public health settings. Topics cover a wide range from simple descriptive statistics and presentation of data, to principles of hypothesis testing, and an introduction to linear and logistic regression and non-parametrical tests. Lectures, problem sets, and computer output are used to develop these and additional concepts. The epidemiology part of this course will introduce students to the principles, methods and research designs used to describe and evaluate the patterns of illness in communities. Furthermore, important epidemiological concepts in evaluation of epidemiological findings such as confounding, effect measure modification, and measures of attribution of disease burden to specific exposures are also presented. Medical students will also have the opportunity to learn techniques to critically evaluate and interpret current medical literature, an essential skill to future success in clinical practice.

FAMILY MEDICINE/CLINICAL SKILLS I AND PATIENT PHYSICIAN RELATION (CLSK 434)

4 Credits

The course is designed to allow medical students to begin to understand the concept of a patient, developing effective communication with the patient, physical examination, and humane care of people. This course designed as a summer rotation at Saint George Hospital University Medical Center.

MED II Courses

FOUNDATION OF MEDICINE (FMED504)

4 Credits

This module explores the basic principles of medical pharmacology and pathology.

The pathology section builds upon understanding the four aspects of the major disease processes; etiology, pathogenesis, clinical significance of the histopathological and molecular findings, and application of the clinically supportive sciences. Current understanding of the pathogenesis and epidemiology of important common and uncommon diseases will be discussed.

Detailed description of significant cell and tissue alterations in disease processes and how they contribute to organ dysfunction and clinical manifestations are emphasized.

In the pharmacology section, clinically applied principles of pharmacodynamics and pharmacokinetics are amply described. The pharmacology of the autonomic nervous system and its clinical applications are also detailed

BASIC NEUROLOGY: DISEASES AND TREATMENT (NEUR503)

3 Credits

This module describes the neurological diseases of the central and peripheral nervous system. Emphasis is given on the symptoms and signs, pathology, pathophysiology, and treatment of these diseases.

Glossary of the different signs and symptoms in neurological disorders together with the correlation between the neurologic clinical manifestations and neuroanatomical location of the lesions will be presented. Pathology of the different neurological disorders will be also introduced. All pathophysiological disorders in neurology with their corresponding treatments will be discussed in addition to the strategies needed for the best therapeutic options in clinical practice.

PULMONARY MEDICINE: DISEASES & MANAGEMENT STRATEGIES (PULM503) 3 Credits

This module addresses the pathologic and pathophysiologic principles that underlie diseases of the upper and lower respiratory tracts along with their pharmacologic treatments. Pulmonary function tests and other diagnostic tools for pulmonary disease are explained.

RENAL MEDICINE: PATHOGENESIS AND PHARMACOTHERAPY (NEPH503) 3 Credits

In this module students will become familiar with renal and bladder disorders along with their pharmacologic treatments. Hypertension and metabolic derangements are addressed with their management. An approach to the patient with renal failure is outlined. Renal dialysis and transplantation are also introduced.

CARDIOVASCULAR MEDICINE: DISORDERS AND MANAGEMENT MODALITIES (CARD504)

4 Credits

This module describes the major diseases affecting the cardiovascular system, their etiologies and their clinical manifestations. Cardiac emergencies are highlighted and a clinical approach to their management protocols is outlined. Pharmacotherapies along with behavioral and preventive therapies are widely explored.

INFECTIOUS DISEASES: PATHOPHYSIOLOGY AND TREATMENT STRATEGIES (INFE502)

2 Credits

This module deals with complicated, widespread and opportunistic infections. Nosocomial and Head & Neck infections are addressed. The modes of transmission of bacterial, viral and mycobacterial infections along with their clinical syndromes are detailed. Cases about HIV, fever with rash and fever of unknown origin are presented. The pharmacology of antimicrobials is given. Bacterial resistance to antimicrobial agents and strategies to control it are widely discussed. Infection control measures are highly stressed.

ENDOCRINE AND REPRODUCTIVE MEDICINE: DISORDERS AND THERAPY PROTOCOLS. (ENDO504)

This module describes the main endocrine and metabolic disorders, emphasizes the strategies to treat them and handles endocrine emergencies. It also describes the pathology of the male and female reproductive systems, the main infections affecting them and the behavioral and pharmacologic treatments.

GASTROINTESTINAL TRACT DISORDERS AND MANAGEMENT (GAST504)

In this module, students will learn about all gastrointestinal and adnexal diseases and their treatment strategies. Abdominal emergencies are highlighted and their management protocols outlined. The clinical skills for taking a good history and performing a complete physical exam for this system will be explored. The role of radiology in diagnosing gastrointestinal disorders is detailed.

HEMATOPOIETIC AND LYMPHORETICULAR DISORDERS & TREATMENT (HEMA503)

3 Credits

4 Credits

In this module blood system disorders, transfusion medicine and oncologic diseases are detailed. The complications of neutropenia along with lymphadenopathy are widely discussed. Oncologic emergencies and the approach to their management are presented. Strategies for the diagnosis of blood and lymphatic disorders are highlighted. The pharmacotherapy of anemia, chemotherapy, anti-platelets and anti-coagulants are stressed upon.

SKIN DISORDERS AND TREATMENT (SKIN502)

2 Credits

This module addresses major skin and soft tissue diseases along with their clinical presentation. Approach to diagnosis and management, and the correlation between skin disorders and internal diseases are detailed.

MENTAL DISORDERS AND THEIR PHARMACOTHERAPY (PSYD503)

3 Credits

In this module mental disorders and their management modalities are explained. Ethical and forensic psychiatric issues are emphasized.

DISEASES OF IMMUNITY AND MUSCULOSKELETAL SYSTEM (IMUS504)

4 Credits

This module presents the relationship between the connective tissues of the body and the associated immune and inflammatory states. The effects of the immune system in responding to pathogens and injury will be elucidated. The generation of autoimmunity states will be detailed. Bone tumors along with tumor and transplant immunology will be emphasized. The pharmacology section will detail the most important treatments for the common rheumatologic diseases, immunotherapy and immunoprophylaxis. A brief session on the imaging of the musculoskeletal system will be also presented. The clinical skills for taking a good history and performing a complete physical exam for both systems will be explored.

CLINICAL MICROBIOLOGY (CMIC 504)

4 Credits

This module aims at introducing the students to the microbial world from a medical perspective. It provides special emphasis on microbial structure, classification and interaction with the human host. General concepts of bacterial microbiology, virology, mycology and parasitology are presented. Mechanisms of infections and antimicrobial therapy characteristic of each type are also covered.

FAMILY MEDICINE-CLINICAL SKILLS II (CLSK 524)

4 Credits

Clinical Skills II emphasizes the importance of integrating medical knowledge, clinical skills and professional attitude as a prerequisite for appropriate, effective and efficient patient care. In this perspective, the course expands on what was done within the framework of the "Clinical Skills I" course.

In this module, MEDII students will learn how to approach patients in different specialty clinics, maintain professional attitude in patient - physician relationship, apply the ethical standards in clinical care, identify key elements in taking patient history within each specialty, review physical examination skills learned in Clinical skills I and identify abnormal findings on physical examination.

MED III Courses

CLINICAL CLERKSHIP IN INTERNAL MEDICINE (CCIM 612)

(12 Weeks)

During the 12 weeks of clinical clerkship in the hospital, the students acquire the adequate skills for taking a comprehensive history of the patient, perform a complete physical examination, elaborate an adequate differential diagnosis of the medical problems, follow and analyze pertinent laboratory and radiological results, and write a supervised comprehensive progress that will reflect the actual patient status. Throughout their rotations students are required to attend clinical conferences and to prepare and participate in clinical discussions

CLINICAL CLERKSHIP IN SURGERY (CCSU 612)

(12 Weeks)

During the twelve weeks of clinical clerkship in the hospital, the students will be introduced to the basic principles of surgery and rotate in general surgery, in orthopedics, in urology, in cardio thoracic and vascular surgery. They build up their basic knowledge of the common surgical diseases in order to formulate a differential diagnosis, be familiar with the management of surgery patients including surgical emergencies, learn to communicate with patients, acquire the adequate skills for taking a comprehensive history of the patient, participate in the patient workup, learn under supervision the principles of pre-operative preparation, operative management and postoperative care. Throughout their rotations students are required to attend clinical conferences and to prepare and participate in clinical discussions.

CLINICAL CLERKSHIP IN OBSTETRICS AND GYNECOLOGY (CCOG 608) (8 Weeks)

During the eight weeks of clinical clerkship in the hospital, the students will be introduced to the basic principles of obstetrics and gynecology, acquire the adequate skills for taking a comprehensive history of the patient, perform pelvic examination, diagnosis and management of OBS-GYN problems and follow-up on patients, attend daily seminars, weekly grand rounds and monthly pathology conference. Students meet daily their attending staff, discuss cases and review charts.

CLINICAL CLERKSHIP IN PEDIATRICS (CCPE 608)

(8 Weeks)

During the eight weeks of clinical clerkship in the hospital, the students will be introduced to the basic principles of pediatrics, the care of children including the management of the healthy and sick child, peculiarities of disease in infancy, childhood and adolescence. The nutrition, growth and development are stressed, as well as the importance of combining preventive with curative medicine. Throughout their rotation students are required to attend clinical conferences and to prepare and participate in clinical discussions.

CLINICAL CLERKSHIP IN PSYCHIATRY (CCPS 604)

(4 Weeks)

During the four weeks of clinical clerkship, the medical students workup psychiatric patients where they are supervised by an attending psychiatrist, learn how to conduct and document a psychiatric interview including chief complaints, psychiatric history, social history, developmental history and medical history. The student will be able to perform a complete mental status examination of a patient with mental illness, discuss and document differential diagnosis, assess and document whether or not the patient is at risk of injury to himself or others. The rotation includes daily seminars dealing with psychopathology, case presentation and discussions, interview techniques and basic psychotherapy as well as psychopharmacology.

PREVENTIVE MEDICINE AND HEALTH ADMINISTRATION (PMHA 602) (30 Hours)

This module is intended to expand student understanding of the complexities of the context of clinical practice and orient them towards preventive medicine. It focuses on health promotion and the tools required to assess and improve public health. It also stresses on human rights in Medicine and how to reduce inequalities in health. Topics covered include health systems and administration, planning and policy making in Lebanon; healthcare and public health services; health as a social and human right; the social and cultural determinants of health and the role of physicians in society.

MEDICAL ETHICS (ADVANCED) (CETH601)

(15 Hours)

The course is designed to present to the medical students opinions regarding the ethical principles governing the medical profession such as patients' rights, informed consent, refusal of treatment, confidentiality, and good clinical practice. The areas addressed are medical research, organ transplantation, genetic testing, palliative care and end-of-life issues, ethical dilemmas in the intensive care setting and in the elderly.

MED IV Courses

CLINICAL CLERKSHIP IN INTERNAL MEDICINE (CCIM 704)

(4 Months)

The Med IV clerkship in Internal Medicine consists of four rotations of one month each in ICU, CCU, ER, and Ward. In this clerkship students improve on their interviewing, communication, and diagnosis skills. They are exposed to intensive care settings and learn manage ICU/CCU patients; moreover, they learn rapid assessment and management of life threatening conditions, and they carry the responsibilities of house interns.

CLINICAL CLERKSHIP IN SURGERY (CCSU 701)

(1 Month)

In the Med IV clerkship in Surgery the students acquire an understanding of fundamental skills of diagnosis and management of patients with surgical illnesses, develop the ability to analyze patient clinical problems, prioritize patients' investigations and management needs. They develop the ability to collect, synthesize and communicate the details of a patient's history, physical examination, differential diagnosis, progress in the hospital and assume primary responsibility for a set of inpatients which include writing orders, developing management and diagnostic plans and presenting these plans to upper level residents or faculty. Attendance at departmental/divisional grand rounds, morbidity, mortality and other conferences is expected from students. The students spend a month on the surgical ward, two weeks in Anesthesia and two weeks in Otorhinolaryngology – Head and Neck surgery.

CLINICAL CLERKSHIP IN ANESTHESIOLOGY (CCAN 712)

(2weeks)

In this clerkship, the MED IV student is expected to acquire the necessary knowledge and skills to perfrom a pre-operative and post-operative assessment of surgical patients, develop a plan for safe airway and anesthetic management of routine surgical patients, be able to perform direct laryngoscopy and intubation, manage pre-operative fluid prescriptions, be familiar with peripheral and central intravenous catheter placement, and to function appropriately in an operating room setting. The clerkship duration is three weeks.

CLINICAL CLERKSHIP IN OTOLARYNGOLOGY (CCEN 712)

(2weeks)

This three weeks fourth year clerkship is designed to provide the medical student with a clinical experience in ENT diseases and reinforce surgical skills acquired in the MED III surgery clerkship. The student will acquire knowledge and skills in the clinical evaluation of patients presenting with symptoms and/or diseases of the ENT areas, and in the elaboration of a management plan, whether medical or surgical. Several aspects of the specialty will be covered, including pediatric and cosmetic otolaryngology. In addition, the student will be exposed to the most delicate and technically demading microsurgeries.

CLINICAL CLERKSHIP IN OPHTALMOLOGY (CCOP 712)

(2weeks)

It is a three weeks rotation which include the following:

- 1- Clinical Introduction to eye pathology.
- 2- Exposure to surgical procedures.
- 3- End of rotation seminar-part of resident grand round

Teaching activities will be assigned to different subspecialities of the departement as well as comprehensive ophtalmologists.

CLINICAL CLERKSHIP IN MEDICAL IMAGING (CCRX 701)

(2 weeks)

This fourth year clerkship is designed to provide the medical student with a clinical exposure to General radiology concepts including Ultrasonography, CT and MRI.

Medical Students attend the daily conferences of the department.

ELECTIVE CLERKSHIP (CCCE 703)

(3 Months)

It is the elective offering of the various departements, from which the student can select one, two or three months. The students are allowed to participate in elective abroad provided these electives meet our rules and standard.

CLINICAL CLERKSHIP IN NEPHROLOGY (CNPH 701)

The Nephrology selective introduces students to the diagnosis and management of patients with fluid and electrolyte disorders, acute renal failure, and chronic renal failure. The duration of the selective is four weeks. Objectives:

The student should be able to:

- •Understand the signs, symptoms and management of common renal syndromes including acute kidney injury and chronic renal failure, glomerulonephritis, and nephrotic syndrome.
- Understand and interpret laboratory tests, medical imaging and diagnostic studies employed in the assessment of renal function.
- •Understand the diagnosis and management of fluid, electrolyte and acid-base disorders.
- •Understand the diagnosis and management of primary and secondary hypertension.

Key Responsibilities of the student:

- 1. Attend weekly nephrology conferences.
- 2. Attend daily nephrology consult rounds.
- 3.Do nephrology consults under the supervision and guidance of the nephrology fellow and be present during attending rounds.
- 4. Attend nephrology clinic.

CLINICAL CLERKSHIP IN CARDIOLOGY (CCAR 701)

The Cardiology selective introduces students to the diagnosis and management of patients with cardiac diseases. The duration of the selective is 4 weeks.

Objectives:

The student should be able to:

- •Understand the signs, symptoms and management of common cardiac diseases.
- •Understand and interpret laboratory tests, medical imaging and diagnostic studies employed in the assessment of cardiac disease.

Key responsibilities of the student:

- 1. Attend weekly conferences.
- 2. Attend staff meeting.
- 3. Rotate under the supervision and guidance of the cardiology fellow and be present on attending rounds.
- 4. Prepare assignments under the supervision of the fellow and attending physician.

CLINICAL CLERKSHIP IN HEMATOLOGY & MEDICAL ONCOLOGY (CONC 701)

The Hematology & Medical Oncology selective introduces students to the diagnosis and management of patients with hematological and cancerous diseases. The duration of the selective is 4 weeks. Objectives:

The student should be able to:

- •Understand the signs, symptoms and management of common hematologic diseases.
- •Understand and interpret laboratory tests and diagnostic studies employed in the assessment of hematologic disease.
- •Understand the management of patients with different types of cancers and the approach to chemotherapy and its complications.

Key responsibilities of the student:

- 1. Attend weekly conferences.
- 2. Attend staff meeting.
- 3. Rotate under the supervision and guidance of the fellow and be present on attending rounds.
- 4. Prepare assignments under the supervision of the fellow and attending physician.

CLINICAL CLERKSHIP IN PULMONARY MEDICINE (CICU 701)

This rotation is a 1 month clinical clerkship in Pulmonary Medicine that is intended to provide the fourth year medical student with direct and intense exposure to a wide range of pulmonary diseases.

The rotation includes the following:

- 1. Thorough evaluation and proper management of patients admitted to the medical ward.
- 2.Active participation in academic activities such as didactic lectures, conferences, case presentations and discussions and attending rounds.
- 3. Hands-on training for procedures done in the division including pulmonary function tests and arterial blood gas interpretation, thoracentesis and bronchoscopies.

CLINICAL CLERKSHIP IN FAMILY MEDICINE (CFAM 701)

The MED IV Family Medicine Clerkship is a clinical rotation tailored for MED 4 students with the goal to give students the opportunity to expand their clinical skills learnt earlier, developing further their clinical management abilities. The MED IV Family Medicine Clerkship is a 4-week rotation that exposes MED 4 students to the comprehensive and longitudinal care of patients with a special emphasis on care of individuals in the context of families and communities in an outpatient setting.

Objectives:

- •To advance the skills of Medical Students in taking a comprehensive history and performing a complete physical exam.
- •To develop Medical Students' knowledge of the approach to diagnosis and management of medical problems in an outpatient setting.
- •To engage Medical Students in a rational and scientific approach to preventive medicine and clinical decision making.
- •To involve Medical Students in the management of a patient medical record in an outpatient setting.
- •To demonstrate compassionate behavior, professionalism, and practice a patient-centered care.
- •To promote self-education and active learning.

CLINICAL CLERKSHIP IN INFECTIOUS DISEASES (CCIN 701)

This rotation is a 1 month clinical clerkship in Infectious Diseases that is intended to provide the fourth year medical student with direct and intense exposure to a wide range of infectious diseases.

Objectives:

- •Approach to a patient with fever and understanding how specific risk factors (exposure, travel, previous hospitalization...) will help building a differential diagnosis and affect the management plan.
- •Understand diagnostic methods in infectious diseases i.e. cultures, serology and molecular (PCR) techniques.
- •Exposure to common infections (community and nosocomial) e.g. UTI, respiratory infections, bloodstream infections...
- •Be familiar with different antibiotic classes, eliciting differences in spectrum and mode of action, and understanding the risk of emerging resistance.
- •Understand the basics of infection control (hand hygiene, isolation precautions).

CLINICAL CLERKSHIP IN NEUROLOGY (CNEU 701)

This rotation is a 1 month clinical clerkship in Neurology that is intended to provide the fourth year medical student with a clinical experience in Neurological diseases and acquire medical knowledge and skills in this field. In addition, the student will be exposed to different paraclinical procedures including brain imaging,

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neurophysiological tests and lumbar puncture. At the end of the rotation, the student should be able on elaborating diagnostic strategies and providing management plans needed for the most frequent neurological disorders

CLINICAL CLERKSHIP IN ENDOCRINOLOGY (CEND 701)

The purpose of this 1 month experience is to provide the student with exposure to commonly encountered cases in Endocrinology in either an ambulatory outpatient or inpatient setting. Students will rotate on wards as well as attend clinics, since it is an outpatient specialty mostly.

During the Endocrinology elective, students will see patients and present with endocrine problems such as thyroid disease, diabetes, hypocalcemia and hypercalcemia, pituitary tumors, steroid hormone abnormalities,

Students are also expected to attend staff meetings during which journal clubs are held, in addition to Endocrine conferences (grand rounds, noon conferences, etc.)

Objectives:

At the end of this rotation the student will:

- •Be capable of completing a history and physical on a patient with endocrine problems.
- •Be capable of writing up and presenting patients with Endocrine problems and be knowledgeable in diagnoses of endocrine problems.
- •Be capable of recognizing and managing emergencies and diseases of endocrine origin.

CLINICAL CLERKSHIP IN GASTROENTEROLOGY (CCGE 701)

This rotation is a 1 month clinical clerkship in Gastroenterology that is intended to provide the fourth year medical student with direct and intense exposure to a wide range of gastric diseases.

- •Introduction to intra hospital GI pathology
- •Exposure to endoscopy technics with discussion of indication, complication and difficulties of different procedures
- •Discussion of different topics during the rounds with physician and the senior residents.
- •Every student will have several assignments (topics, procedures, etc.) to complete.

CLINICAL CLERKSHIP IN DERMATOLOGY (CDER 701)

The duration of the selective in Dermatology is 1 month. It introduces the students to the signs and symptoms of common dermatologic diseases and its relation to systemic disease.

Objectives:

The student should be able to:

- •Understand the signs, symptoms and management of common dermatologic diseases.
- •Understand and interpret laboratory tests and diagnostic studies employed in the assessment of dermatologic diseases.

Key Responsibilities of the student:

- 1. Attend weekly dermatology conferences.
- 2. Attend daily consult rounds.
- 3.Do consults under the supervision and guidance of the rotating resident and be present during attending rounds.
- 4. Attend dermatology clinic.

CLINICAL CLERKSHIP IN RHEUMATOLOGY (CRHE 701)

It is a 1 month rotation that includes spending time in the clinic as an observer and participating in performing Rheumatology consultations on the medical/surgical wards.

Objectives:

•Familiarize the student with the comprehensive rheumatologic approach to the various musculo-skeletal and

systemic disorders.

- •Differentiate systemic inflammatory from non-inflammatory musculo-skeletal disorders and become familiar with the diagnostic approach to the various Connective Tissue and Vasculitic disorders.
- •Learn the joint examination, from small to large joints; examination of the spine (cervical, lumbar, sacro-iliac), and examination of tendons and bursae.
- •Become familiar with the procedures performed in rheumatology: arthrocentesis of various joints, intraarticular injections, injections of tendons and bursae.

CLINICAL CLERKSHIP IN PEDIATRIC SURGERY (CPSU 701)

The duration of the selective in Pediatric Surgery is 1 month. The goal is to apply the most up-to-date procedures in an appropriate context using solid medical and scientific information. The students will be exposed to complex congenital malformations, advanced surgical conditions, and the most complicated cases in a multidisciplinary fashion using the skills and knowledge of the medical and nursing colleagues.

Objectives:

At the end of the pediatric surgery clerkship, each student should be able to:

- •Gather and interpret essential and accurate information about the pediatric patient's health status and learning to obtain clinical information from children and parents.
- •Obtaining relevant information from nurses and hospital departments (e.g., radiology, laboratory, and hospital information systems)
- •To learn the principles of pre and postoperative management

Key Responsibilities of the student:

- 1. To present clinical information on work rounds clearly and concisely.
- 2.To work effectively with attending staff, house staff colleagues in surgery and pediatric services, residents, nurses, ancillary personnel, pre-hospital personnel.
- 3. Attend weekly conferences and attending rounds.
- 4. Attend clinic.

MASTER OF SCIENCE PROGRAM IN BIOMEDICAL **SCIENCES**

The Faculty of Medicine and Medical Sciences has started a new graduate program leading to the degree of Master of Science. This program is aimed to develop the students' capacity to conduct scientific research and to prepare them for pursuing doctoral qualifications in Biomedical Sciences. During the 2-year period of this program, students will be offered graduate courses in the fields of Biochemistry, Immunology, Microbiology, Genetics, Physiology, and Molecular Biology. Students will then select, after the first year, a specific field of study and will be integrated into research projects within a defined domain of interest. To qualify for graduation, a student should write a thesis describing the research project and the results obtained. Graduates of the program are introduced to recent sophisticated technologies, and will have acquired the essential skills for conducting independent scientific research. The degree given by the Faculty of Medicine and Medical Sciences opens new venues for those wishing to start work in laboratories or in health-oriented industries, and provides the key to open the door leading to a PhD or MD degree.

ADMISSION REQUIREMENTS

A candidate must:

- Fulfill the regulation of the University and the Faculty concerning postgraduate studies
- Hold a Bachelor Degree in Biology or related sciences with a minimum major average of 80 (from a 100 point scale). Admission under probation can be given to students with a minimum major average of 75.
- Pass the Test of English as a Foreign Language (TOEFL) with a minimum of 600 on the paper-based TOEFL, or 100 on the internet based TOEFL

GRADUATION

To qualify for graduation the student must:

- Complete all the requirements for the degree within a maximum period of 4 years from the date of first enrollment
- Complete at least 24 credit hours of courses with a minimum grade average of 80
- Write and defend the thesis successfully (6 credits)

FEES AND GRADUATE ASSISTANTSHIPS

For detailed information about the graduate assistantships, please contact the Graduate Committee at the Faculty of Medicine and Medical Sciences or the Registrar's Office.

CURRICULUM

Accepted students will choose any of the following orientations based on the number of students and the approval of the supervisor.

Required (R) and Elective (E) courses

YEAR I (21 cr)

BIOM 300 Medical Biochemistry	6 cr
BIOM 301 Quantitative Analysis and Biostatistics	2 cr
BIOM 302 Techniques of Scientific Communications	2 cr
BIOM 303 Antimicrobial Chemotherapy and Resistance	3 cr
BIOM 306 Advanced Biochemistry (Enzymology/Metabolism)	3 cr
BIOM 320 Advanced Medical Immunology	3 cr
BIOM 321 Medical Microbiology	3 cr

BIOM 324 Advanced Topics in Infection and Immunity	3 cr
BIOM 325 Techniques in Immunology	1 cr
BIOM 326 Clinical Microbiology and Infection	6 cr
BIOM 327 Infectious Diseases	2 cr
BIOM 330 Advanced Molecular Biology	3 cr
BIOM 331 Medical Genetics	2 cr
BIOM 332 Advanced Topics in Biochemistry	3 cr
BIOM 333 Techniques in Biochemistry	1 cr
BIOM 336 Advanced topic in Genetics	3 cr
BIOM 337 Techniques in Genetics	1 cr
BIOM 338 Advanced Topics in Cell Biology	3 cr

Any course from MEDI/MEDII curriculum is equivalent to a graduate course.

YEAR II (9 cr)

BIOM 335 Research Tutorials in Biomedical Sciences	3 c
BIOM 399 Thesis	6 c

COURSE DESCRIPTIONS

BIOM 300 MEDICAL BIOCHEMISTRY

6 credits

The Graduate Medical Biochemistry Course is a lecture and discussion course designed for graduate students majoring in Biomedical Sciences whose educational goals require more extensive exposure to biochemistry. The course gives greater emphasis to the medical and physiological implications of biochemistry and to human metabolism and its regulation than a more traditional introductory biochemistry course. Interspersed throughout the course will be a substantial number of medical cases, relating to the current topics of the main lecture series to demonstrate the relevance of biochemistry to health and disease. The course also includes sessions aimed at discussing review articles or original research publications in selected topics of biochemistry.

Prerequisite: Biochemistry (BC 205) or equivalent

BIOM 301 QUANTITATIVE ANALYSIS AND BIOSTATISTICS

2 credits

The course provides students, in the field of biological and medical sciences, with the statistical tools and skills necessary to organize and summarize data in a meaningful way and to interpret and analyze data intelligently to reach sound understanding of observed biological phenomena. The course emphasizes computer applications for most of the statistical techniques covered, using SPSS statistical software.

BIOM 302 TECHNIQUES OF SCIENTIFIC COMMUNICATIONS

2 credits

The course provides a graduate-level overview of the techniques used for platform, poster and written scientific presentations. After having successfully completed the course, students will be able to form logical arguments, discuss the mission of making scientific presentations aimed at delivering clear and concise messages, dissect and summarize scientific publications, constructively criticize scientific presentations, and draft a scientific proposal. Approaches and criteria for scientific research will be presented.

BIOM 303 ANTIMICROBIAL CHEMOTHERAPY AND RESISTANCE (course with lab component): 3 credits

In the first section, this course describes the different classes of antimicrobial agents and their mechanisms of action. In the second part, the course classifies and details the mechanisms of resistance manifested by the most important pathogens. Phenotypic and genotypic techniques for the identification of these mechanisms are presented, analyzed, and performed where applicable. A final part dealing with antibiotic consumption and its effect of bacterial resistance is discussed.

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BIOM 306 ADVANCED BIOCHEMISTRY (ENZYMOLOGY/METABOLISM)

3 credits

This course is a lecture and discussion course designed for graduate students whose educational goals require more extensive exposure to biochemistry. This course provides detailed insights into the mechanisms of catalysis of various classes of enzymes including kinetic analysis, catalytic mechanisms, transition state stabilization and regulation of activity, strategies for active site characterization and regulatory properties. Cellular metabolism of carbohydrates, lipids, amino acids and nucleotides will be studied. This course also introduces the graduate students to critical reading of scientific papers. Prerequisites: Principles of Biochemistry (BIOL 251) or equivalent

BIOM 320 ADVENCED MEDICAL IMMUNOLOGY

3 credits

The course explores the cellular and humoral components of the immune system, emphasizes the genetic and molecular elements controlling cellular interactions and immune responsiveness, highlights the nature of protective responses to infections and tumors, and provides advanced knowledge of the consequences of abnormal immune regulation or function. The course includes sessions, with student participation, aimed at discussing the state of the art in selected topics on innate immunity and regulatory T cells.

BIOM 321 MEDICAL MICROBIOLOGY

4 credits

The course describes the microbial world from a medical perspective. It details bacterial pathogenesis, genetics, treatment, and resistance. The course presents sizeable information on human viruses, viral replication strategies, viral diseases, and treatment. Concise components of the course include parasitic and fungal infection of humans. An advanced element of the course will focus on novel generations of anti-microbial drugs, and on alternative strategies in the management of infections with drug-resistant microbes or in subjects with immune deficiencies

BIOM 324 ADVANCED TOPICS IN INFECTION AND IMMUNITY

3 credits

The course targets intracellular microbial infections with the aim of elaborating on the immunopathogenesis and the immune evasion strategies developed by these microbes. The bacteria to be discussed include Mycobacteria, Listeria, Brucella, Chlamidya and Legionella. The selected protozoa are Leishmania, Plasmodium, Toxoplasma and Trypanosoma whereas retroviruses, hepatoviruses, and herpesviruses will constitute the 3 viral families to be studied. The host-microbe interactions will be a primary component of this course, and students would be required to prepare and present term papers on selected topics. Pre-requisites: BIOM 320 and BIOM 321 or equivalent graduate courses.

BIOM 325 TECHNIQUES IN IMMUNOLOGY

1 credit

The course is aimed to introduce the students to the commonly used immunological techniques including enzyme linked immunosorbent assays, radioimmunoassay, cell activation and cytokine measurement, flow cytometry, and lymphocyte proliferation assays.

BIOM 326 CLINICAL MICROBIOLOGY AND INFECTION

6 credits

This course aims at introducing the students to the microbial world from a medical and clinical perspective. The course covers a selection of the most clinically important bacteria detailing the major bacterial pathogens of humans. The course also covers important area in virology, mycology, and parasitology. The course includes two credits of laboratory advanced techniques in microbiology.

BIOM 327 INFECTIOUS DISEASES

2 credits

This course deals with the infectious diseases from a diagnostic and clinical perspective. It offers an advanced knowledge of bacterial, fungal, viral, and parasitic infections from bedside to bench top. The material of the course is arranged by organ system and provides transition for clinical considerations. The course includes lectures and case discussions through which the student will be expected to acquire an in-depth knowledge in the field of clinical and diagnostic microbiology and infectious diseases.

BIOM 330 ADVANCED MOLECULAR BIOLOGY

3 credits

The course is aimed to provide students with advanced knowledge in (1) understanding biochemical processes fundamental to gene structure and function: DNA replication, transcription, translation, and regulation of gene expression; (2) exploring the techniques and applications recombinant DNA research, and the value of this technology in elucidating the mechanisms of complex genetic control. The course is based on advanced lectures as well as on critical reading and discussion of review articles or original research publications in selected topics of molecular biology.

Pre-requisite: BIOL 285 (Molecular Biology) or equivalent undergraduate course.

BIOM 331 MEDICAL GENETICS

2 credits

The Medical Genetics Course provides the fundamental concepts of human medical genetics in didactic and small group presentations. This course explores the fundamental concepts in human genetics at the molecular, cellular and clinical levels. It details the principles of classical genetics, biochemistry of nucleic acids, control of gene expression, gene therapy, and investigates recent developments in genetic technology. Students will acquire advanced knowledge of (1)structure and function of genes and the general organization of the human genome; (2)genes and diseases; (3)causes and general pathology of chromosomal abnormalities; (4) the basic genetic foundation upon which treatments might be available. Pre-requisite: BIOL 283 (Genetics) or equivalent undergraduate course.

BIOM 332 ADVANCED TOPICS IN BIOCHEMISTRY

3 credits

The objective of the course is to highlight various aspects of mitochondrial function and visualize the central role that mitochondrial dysfunction plays in many diseases. The course consists of a series of lectures reviews combined with discussions and presentations by students. Topics presented will cover mitochondrial homeostasis, including mitochondrial DNA, oxidative stress, calcium signaling, apoptosis, aging and energy metabolism.

Pre-requisite: BIOM 300 or equivalent graduate course.

BIOM 333 TECHNIQUES IN BIOCHEMISTRY

1 credit

The course is aimed to introduce the students to fundamentals of biochemical methodology: buffers, spectrophotometry, gel electrophoresis, chromatography, protein determination and purification.

BIOM 335 RESEARCH TUTORIALS IN BIOMEDICAL SCIENCES

3 Credits

The course focuses on the areas pertinent to research conducted by faculty members in the field of Biomedical Sciences.

BIOM 336 ADVANCED TOPICS IN GENETICS

3 credits

The advanced topics in Genetics course is designed to introduce the students to the different types of genetic testing and their uses. Each of the major subspecialties will be addressed: cytogenetics, molecular genetics, biochemical genetics, clinical genetics, and genetic counseling.

Pre-requisite: BIOM 331 or equivalent graduate course.

BIOM 337 TECHNIQUES IN GENETICS

1 credits

The course is aimed to introduce the students to the commonly used Genetics techniques including karyotyping, conventional cytogenetic analysis, fluorescence in situ hybridization (FISH), Southern Hybridization and single gel electrophoresis (Comet) assays.

BIOM 338 ADVANCED TOPICS IN CELL BIOLOGY

3 credits

This course offers an advanced, in depth analysis of selected topics in cell biology. Students who successfully

events that mediate cellular processes, their dynamic properties in living cells and how this contributes to the functioning of the whole organism and its development. The course format will include student-led discussion sessions both providing an overview of a topic as well as focusing on important papers in cell biology. Students will be evaluated on their presentations and participation.

complete this course will develop insight into the complexities of cell structure and function, the molecular

BIOM 399 THESIS 6credits

A 6 credits hour course in which students conduct original research under staff supervision. The projects center around topics related to physiology, immunology-microbiology, biochemistry and genetics. The Core Laboratory Facility at UOB aims to provide an environment and a facility for research in many diverse biomedical fields. The core provides an infrastructure for research applications in cell and animal model system. The major component of the facility is a Molecular and Cellular Biology which includes Molecular Biology, Protein Chemistry, Flow Cytometry, Bioenergetics and Cell Culture facilities. A core facility in physiological research is also available and is equipped with radioactive isotope detection technologies. After completion of their experimental work, students are expected to write a thesis, and to pass an oral examination by defending their work in front of an independent committee of professors with expertise in the respective research domain of each thesis.

FOR APPLICATIONS

University of Balamand

Office of Admissions & Registration

P.O. BOX 100 Tripoli – Lebanon Tel: 06-930250 / 03-338679 / 03-335683

Email: admissions@balamand.edu.lb

FOR ADDITIONAL INFORMATION

University of Balamand

Faculty of Medicine & Medical Sciences

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ST. GEORGE FACULTY OF POSTGRADUATE **MEDICAL EDUCATION**

The Faculty of Postgraduate Medical Education is committed to provide high standard postgraduate medical education. Its objective is to provide excellence in patient care, clinical research, and medical education.

The Faculty provides a scholarly environment in which both teaching staff and residents can participate in a wellstructured postgraduate curriculum, in research activities, and in on-going medical education. The residencytraining program promotes interaction among all involved; healthcare providers, patients, and families.

Its medical staff is comprised of qualified and competent individuals who provide inpatient hospital care, and contribute to the instruction of house staff, interns, and residents.

The training program offers residents the opportunity for personal, clinical, and professional growth under the supervision and guidance of the teaching faculty and administration. The program ensures that house staff provides safe, effective, and high quality patient care with increased responsibility at each postgraduate level. The following programs of specialty are available:

PROGRAMS OF POSTGRADUATE MEDICAL EDUCATION

RESIDENCY PROGRAM	FELLOWSHIP PROGRAM
Anesthesiology	Cardiology
Dermatology	Endocrinology
Family Medicine	Gastroenterology
Internal Medicine	Hematology and Medical Oncology
Laboratory Medicine	Infectious Diseases
Neurology	Nephrology
Obstetrics and Gynecology	Pulmonary Medicine and Intensive Care Medicine
Ophthalmology	
Orthopedic Surgery	
Otorinolaryngology Head and Neck Surgery	
Pathology	
Pediatrics	
Psychiatry	
Radiology	
Surgery	
*Cardiothoracic Surgery	
*General surgery	
*Neurosurgery	
*Pediatric Surgery	
*Plastic Surgery	

*Urology	
*Vascular Surgery	

^{*} Applicants for the fellowship program must have completed three years of Internal Medicine.

1. ADMISSION REQUIREMENTS

The Admissions Committee compiles a dossier of documents that constitute an application to the Faculty of Postgraduate Medical Education. To complete the dossier, applicants must submit the following to the Dean's Office at St. George Health complex, Beirut, or to the Office of Admissions and Registration at the University of Balamand (Koura).

- •Three (3) recent passports size photographs
- •A photocopy of the Identity Card or Passport
- •A certified copy of the Baccalaureate II Certificate or its equivalent
- •A certified copy of the Medical Diploma and official transcript of records
- •A copy of the Medical School Training Program and its description (for graduates of Foreign Medical schools)
- •Three letters of recommendation from three different faculty members who worked with the applicant during his/her internship year(s)
- •A personal statement (See application)
- •Evidence of English Language proficiencies e.g. TOEFL/IELTS
- •Evidence of passing the colloquium exam

All Applicants have to sit for a Qualifying Graduate Examination and an interview.

When the required documents listed above are submitted, the Dean's Office will inform applicants of the date and venue of the qualifying graduate examination and required interview. Academic year starts the first of July. Applications are valid only for the academic year and the residency program to which they are being made. Applicants are informed of the Admission Committee's decision on the date announced by the Dean's Office.

About The Examination:

The exam also covers the specialties of Internal Medicine, Obstetrics and Gynecology, Pediatrics, Psychiatry, Surgery, and other areas relevant to provision of care under supervision. Some of the test questions describe basic clinical situations and require that you provide the underlying mechanism of the disease and its diagnosis. It also covers the Basic Sciences (Anatomy, Microbiology, Pathology, etc...). Questions commonly require examinees to apply basic science knowledge to clinical problems.

Applicants who pass the written examination will be interviewed by a special committee.

2. RULES AND REGULATIONS

A. Academic Performance

See University Rules and Regulations

B. Grievance Procedure

Students may appeal against a decision regarding them taken by the Faculty. The appeal must be submitted in writing. A Grievance Committee structured according to the rules and regulations of the University will evaluate the situation.

- •Written Warning
- Temporary Suspension
- Dismissal
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