o **Free Elective Courses**: Courses that students can select from any faculty.

2) **University Requirement Courses**
These are a set of courses designated by the University to ensure that all students acquire a broader knowledge. Students must complete from 13 to 20 credits as university courses according to the faculties’ own regulations. These courses include:

- **Mandatory Courses (5 credits)**: A set of mandatory courses: Human Rights (1 cr.) – Arabic Language (2 Crs.) – English Language (2 Crs.). For non-arabic speakers, it is possible to replace the Arabic Language Course, one of the mandatory university requirements, with an optional course in other foreign language (FREN001), ITAL001 or SPAN001

- **Elective Courses (from 8 to 15 credits)**: A set of courses offered by all faculties in the university for all students to choose from. Students may not register in university elective courses offered by their own faculty in the same major.

IX - **Minimum Number of Credit Hours Required for Graduation**
The minimum number of credit hours required for graduation is specified in the curriculum of each faculty in terms of Mandatory, Elective and University Courses and is as follows:

<table>
<thead>
<tr>
<th>FACULTY</th>
<th>No. of Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Sciences</td>
<td>99</td>
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<tr>
<td>Law and Political Science</td>
<td>138</td>
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<tr>
<td>Business Administration</td>
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<tr>
<td><strong>Architecture – Design and Built Environment</strong></td>
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<tr>
<td>- Architecture</td>
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<td><strong>Design Programs</strong></td>
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<tr>
<td>- Interior Design</td>
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<td>- Graphic Design</td>
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<td>Engineering</td>
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<td>Science</td>
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<tr>
<td>- Computer Science</td>
<td>100</td>
</tr>
<tr>
<td>- Other Departments (Math, Physics, Chemistry, Biological Science)</td>
<td>97</td>
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<tr>
<td>Pharmacy</td>
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<td>Medicine</td>
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<td>Dentistry</td>
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<td>Health Sciences</td>
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<td>- Nursing</td>
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<td>- Human Nutrition and Dietetics</td>
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<td>- Medical Laboratory and Technology</td>
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<tr>
<td>- Physical Therapy</td>
<td>130</td>
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</table>
X- List of University Requirement Courses Offered by the Faculties

A- UNIVERSITY REQUIREMENT MANDATORY COURSES

ARAB 001 ARABIC LANGUAGE (2Cr.:2Lec)

A general course that enhances language skills and provides coverage of basic grammar, vocabulary, reading, and writing for foundation students. It deals with basic competence in reading, through exercises on getting main ideas, guessing meaning from context, understanding details, predicting and inferencing. Writing development from paragraph to composition, proceeding through writing and developing of topics sentences, supporting sentences and paragraph writing is the focus of the course. Writing and reading build vocabulary through exercises and dictionary use and cloze exercises. The latter develop grammar where the use of nouns, verbs, adjectives and adverbs, transition signals, the reconstructing of sentences and main and subordinating clauses is practiced.

ENGL 001 ENGLISH LANGUAGE (2Cr.:2Lec)

A general course that enhances language skills and provides coverage of basic grammar, vocabulary, reading, and writing for foundation students. It deals with basic competence in reading, through exercises on getting main ideas, guessing meaning from context, understanding details, predicting and inferencing. Writing development from paragraph to composition, proceeding through writing and developing of topics sentences, supporting sentences and paragraph writing is the focus of the course. Writing and reading build vocabulary through exercises and dictionary use and cloze exercises. The latter develop grammar where the use of nouns, verbs, adjectives and adverbs, transition signals, the reconstructing of sentences and main and subordinating clauses is practiced.

FREN 111 LANGUE FRANÇAISE - FRENCH LANGUAGE (ALTERNATIVE COURSE) (2Cr.:2Lec)

L’objectif de l’enseignement de la langue française est d’apprendre à communiquer en français oralement et par écrit, maîtriser progressivement le fonctionnement de la langue et acquérir des savoirs culturels. On proposera des techniques et des stratégies qui facilitent l’apprentissage et mènent graduellement l’apprenant à une certaine autonomie. L’apprentissage est orienté vers tous les aspects de la communication. Il s’appuie sur des éléments concrets, grâce à la référence constante aux documents proposés. (Open only for Arabic and English majors).

BLAW 001 HUMAN RIGHTS (1Cr.:1Lec)

This course aims at introducing students to the principles of human rights and its foundations. The importance of human rights in our societies, not only from a theoretical point of view but rather more from a practical one, is highlighted. Special attention is given to certain global themes on human rights, which touch on critical topics related to our society. It also covers the following topics: Human rights, key values of human rights and other values, characteristics of human rights, history of human rights, some problematic cases, the evolution of human rights, the implementation of human rights and NGOs, human rights in Lebanon, children, citizenship, democracy, discrimination and xenophobia, education, and gender equality. Lectures are in English.
**B- UNIVERSITY REQUIREMENT ELECTIVE COURSES**

**HUMANITIES**

**HUMS 002 TEACHING METHODS (2Crs.:2Lec)**

طريقة التدريس

يركز المقرر على تعليم الطلاب التدريس، والتعليم، والبحث العلمي، والعلوم المفيدة للبحث العلمي. كما تهدف إلى إعداد الطلاب للحرية والبحث، وإعداد المعلم الذي يتمتع بخصائص مميزة، ودراسة طرق التدريس أيضًا، وكيفية تنمية فترات الميدان، لهذا فإن المادة تهدف إلى دراسة المحاور التالية:

1. أسس التربية والتعليم وتكوين الشخص الآدمي
2. خصائص وصفات التدريس
3. أهداف تدريس المواد والعلوم الاجتماعية والإنسانية
4. طريقة وفترة تدريس المواد والعلوم الاجتماعية والإنسانية
5. الفعل، والاقتصاد، والعلوم المفيدة للبحث العلمي
6. القدرة على تنمية القدرات الشخصية والبحثية
7. دراسة المحاور المتضمنة في المادة
8. دراسة المحاور المتضمنة في المادة

**FREN 001 LANGUE FRANÇAISE I (2Crs.:2Lec)**

لغة الفرنسية (I)

Cet enseignement se propose d’aider l’étudiant à acquérir une compétence de communication à l’oral et à l’écrit. Partant d’une phase de compréhension globale de documents écrits et oraux, on procédera à un travail d’appropriation par des activités de systématisation en contexte, des exercices de réinvestissement des acquis en compréhension et en production, à l’oral et à l’écrit.

**FREN 002 LANGUE FRANÇAISE AVANCÉE II (2Crs.:2Lec)**

لغة فرنسية متقدمة (II)

L’objectif du cours est de permettre à l’étudiant sur le plan de la compréhension orale et écrite à comprendre tout type de message, dans une langue courante. Les activités sont axées sur des supports authentiques et des sujets d’actualités, pour leur permettre de réinvestir leurs avis dans la compréhension orale et le production écrite.

**FRCM 003 LE FRANÇAIS ECONOMIQUE ET COMMERCIAL (2Crs.:2Lec)**

اللغة الفرنسية الاقتصادية والتجارية

Ce cours de français présente des situations professionnelles ainsi que des situations de la vie quotidienne. Le français s’affirme comme langue de travail utile dans les échanges. Les activités sont axées sur le savoir (textes économiques, articles de journaux...), le savoir-faire (envoyer des e-mails, répondre à une lettre...), et sur la compréhension de ces échanges, grâce à des supports écrites et oraux qui déclenchent des contenus culturel et grammatical en rapport avec la vie professionnelle. Et ce, dans le but de préparer les étudiants à se familiariser avec la langue et la culture françaises dans leur spécialité.

**FRLW 004 LE FRANÇAIS JURIDIQUE (2Crs.:2Lec)**

اللغة الفرنسية القانونية

Le français juridique est une introduction au vocabulaire juridique ainsi qu’à la connaissance des sources du droit, des institutions françaises et communautaires, de la justice française et du droit des entreprises. Il établit ainsi un lien direct et systématique entre terminologie de spécialité et contexte culturel français et communautaire. Le français juridique a donc aussi pour objectif un approfondissement d’actes de paroles courants de la vie quotidienne, déjà connus, mais qui sont transposés dans les situations spécifiques plus complexes relevant de la vie juridique.
<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Lectures</th>
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<td>methods of writing: reports, bids, CV,</td>
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<td>progress report, feasibility study, technical</td>
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<td>report, Fact sheet etc….</td>
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<td>دراسة في تاريخ لبنان الحديث والمعاصر تشتمل</td>
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<td>HIST 004</td>
<td>MODERN AND CONTEMPORARY ARAB HISTORY - (2Cr.:2Lec)</td>
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<td>تاريخ العرب الحديث والمعاصر</td>
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<td>CONTEMPORARY HISTORICAL ISSUES - (2Cr.:2Lec)</td>
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<td>THE ARAB WORLD - (2Cr.:2Lec)</td>
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<td>ARAB and ISLAMIC CIVILIZATION – (3Cr.:3Lec)</td>
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<td>WORLD - (2Cr.:2Lec)</td>
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<td>المعالم الأثرية في لبنان والعالم العربي</td>
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HIST 010 PHOENICIAN CITIES - (2Cr.:2Lec)

The Phoenician cities are focused on in this course. These cities were important in the history of the region, with cultural and economic exchanges. Topics include the cities of Phoenicia and their role in the ancient world, focusing on the city of Tyre and its historical importance. The course also explores the relationship between the Phoenician cities and the cultures of ancient Egypt and Assyria. The course also looks at the influence of the Phoenician cities on the development of international trade and commerce.

HIST 011 MODERN AND CONTEMPORARY EUROPEAN and AMERICAN HISTORY - (3Cr.:3Lec)

The course covers the history of Europe and America from the end of the Middle Ages to the present. It examines the cultural, social, and political changes that have shaped these regions. Topics include the Renaissance, the Reformation, the Enlightenment, and the Industrial Revolution. The course also explores the role of the United States in the world, focusing on the country’s involvement in world affairs and its cultural influence.

HIST 012 MODERN AND CONTEMPORARY HISTORY OF THE FAR EAST - (3Cr.:3Lec)

This course covers the history of the Far East from the modern era to the present. It examines the political, economic, and cultural developments in the region, with a focus on China, Japan, and Korea. The course also explores the role of foreign powers in the region, including the United States and Japan.

HIST 013 HISTORY OF THE ARAB STATE – (3Cr.:3Lec)

The course covers the history of the Arab state from the early caliphate to the modern era. It examines the political, social, and cultural developments that have shaped the region, with a focus on the Islamic world.

HIST 014 AYYUBID AND MAMLUK HISTORY - (3Cr.:3Lec)

The course covers the history of the Ayyubid and Mamluk periods in the Islamic world. It examines the political, social, and cultural developments that have shaped the region, with a focus on the Islamic world.

HIST 015 HISTORY OF ISLAMIC MOROCCO AND ANDALUSIA (3Cr.:3Lec)

The course covers the history of Islamic Morocco and Andalusia from the medieval to the modern era. It examines the political, social, and cultural developments that have shaped the region, with a focus on the Islamic world.
**SOCIAL SCIENCES**

**PSYC 222 DEVELOPMENTAL PSYCHOLOGY – (3Cr.:3Lec)**

سلام نفس النمو

يوفر هذا المقرر الموضوعات التالية:

- مقدمة عامة في معنى النمو وموازنته وتجاهله والعوامل المؤثرة فيه منذ مرحلة ما قبل الميلاد وحتى مرحلة الرشد. نظرية النمو المختلفة. جوانب النمو البيولوجي كالنمو الجسمي، والكيميائي، والاجتماعي وال духовي والفاقدي والقبلية والفترات الحيوية والانتقال.

**PSYC 325 PSYCHOLOGY OF LEARNING – (3Cr.:3Lec)**

سيكولوجيا التعليم

ويتضمن المقرر الموضوعات التالية:

- طبيعة التعلم، العوامل المؤثرة فيه، أوجه التعليم، انتقال أثر التدريب، أوجه العوام الوعول المتجه، فيه وطرق قياسه. نظرية التعليم، الاستراتيجيات البادرة والأدوات الجغرافية.

**PSYC 337 EDUCATIONAL PSYCHOLOGY– (2Cr.:2Lec)**

علم النفس التربوي

يتضمن المقرر الموضوعات التالية:

- تعريف علم النفس التربوي وأهم النظريات، التنشئة الاجتماعية والظواهر التي يخضعها علماء النفس الاجتماعي للبحث الإفريقي في المجالات الرئيسية لهذا الميدان والمتماثلة في التأثير الاجتماعي، والمعرفة والإدراك الاجتماعي وما يكتنفه من عمليات تتشق بأيئات ذات.

**PSYC 228 SOCIAL PSYCHOLOGY– (2Cr.:2Lec)**

علم النفس الاجتماعي

ويتضمن المقرر الموضوعات التالية:

- التعريف بعلم النفس الاجتماعي، أهم النظريات، التنشئة الاجتماعية والظواهر التي يخضعها علماء النفس الاجتماعي للبحث الإفريقي في المجالات الرئيسية لهذا الميدان والمتماثلة في التأثير الاجتماعي، والمعرفة والإدراك الاجتماعي وما يكتنفه من عمليات تتشق بأيئات ذات.

**SOCI 001 INTRODUCTION TO SOCIOLOGY AND PSYCHOLOGY - (2Cr.:2Lec)**

المدخل إلى علم الاجتماع وعلم النفس

يهدف هذا المقرر إلى علوم النفس والاجتماعية الأساسية في علم الاجتماع، تعريفه وأهم مجالات الاهتمام، علاقاته بالعلوم الاجتماعية الأخرى، وكيفية التحليل الدقيق والمفهوم، والየنة البحثية في مجالات مختلفة كالطب، والطبي، والاجتماع، في مجالات مختلفة.

**SOCI 424 SOCIOLOGY OF DEVELOPMENT– (3Cr.:3Lec)**

علم اجتماع التنمية

يهدف هذا المقرر إلى منهجية البحث في علم اجتماع التنمية، تمثيل أهم المفاهيم المرتبطة بها، وأهمية علم اجتماع التنمية في تحليل وبحثه.تشمل الموضوعات الأساسية، وعلاقته بالعلوم الاجتماعية الأخرى، ومعرفة أهم المعامل النظرية التي تُوفر لها علماء الاجتماع في دراسة التنمية، وهو يشير إلى موضوعات واقع التنمية في كل من الدول المدمجة والمتقدمة، وعلاقته التنمية بالتحليل في دول العالم الثالث، وضعية التصاميم والتجارب التنمية في الدول التأمية العربية، والتصاميم، والتخطيط للتنمية النامية والتنمية البشرية.

**SOCI 425 ENVIRONMENT AND SOCIETY– (3Cr.:3Lec)**

بيئة المجتمع

يهدف هذا المقرر إلى منهجية البحث في علم اجتماع التنمية، تعريفه بعلم البيئة الربحية، تمثيل أهم المعامل أو المفاهيم المرتبطة بها، وعلاقته بالعلوم الاجتماعية الأخرى، ومعرفة أهم المعامل النظرية التي تُوفر لها علماء الاجتماع في دراسة البيئة. يشير إلى موضوعات واقع التنمية في كل من الدول المدمجة والمتقدمة، وعلاقته التنمية بالتحليل في دول العالم الثالث، وضعية التصاميم والتجارب التنمية في الدول التأمية العربية، والتصاميم، والتخطيط للتنمية النامية والتنمية البشرية.
### MCOM 003 COMMUNICATION SKILLS (2Cr.:2Lec)

Building a foundation, setting clear goals for your communication, determining outcomes and results, initializing communications, avoiding communication breakdowns, creating value in your conversations, translating across communication styles, listening for improved understanding, achieving genuine communication, cross-cultural communication, working constructively with emotions, dealing with anger, managing emotionally charged situations.

### SPORTS

#### PHED 001 BASKETBALL (2Crs: 8Lec)

The course covers the following topics: General introduction to Basketball, defence positions and attack skills, technical steps of chest pass, ball dribbling, Lay-Up skills, educational videos including international regulations, conducting friendly games, theoretical and applied exam.

#### PHED 001 VOLLEYBALL (2Crs:2Lec)

The course covers the following topics: Introduction to Volleyball, physical preparation, Ready-position and ball receiving techniques, High and Low ball passing, defensive wall technique, smash technique, Educational videos including international regulations, conducting friendly games, theoretical and applied exam.

#### PHED 001 HANDBALL (2Crs:2Lec)

The course covers the following topics: Introduction to Handball, special fitness exercises, ball handling and dribbling skills, defence and attack techniques, proper leg movement on ground and while jumping, goalkeeping skills, educational videos including international regulations, conducting friendly games, theoretical and applied exams.

#### PHED 001 BADMINTON (2Crs:3Lec)

The course covers the following topics: Introduction to Badminton, fitness preparation, racket handling, shuttlecock bouncing, back and front pass techniques, tennis court movement, multiple defence positions, ball handling next to the net, conducting friendly games, theoretical and applied exams.

### 4- LAW AND POLITICAL SCIENCE

#### BLAW 003 INTRODUCTION TO LAW (2Cr.)

The theory of the legal rule: characteristics, sources, classification and interpretation. The course also covers the theory of rights: Definition, classification, object of rights, and subject of rights.

#### BLAW 004 PRINCIPLES OF COMMERCIAL LAW (2Cr.)

The theory of trade acts, traders, trade house, commercial companies.

#### BLAW 005 PRINCIPLES OF MARITIME LAW (1Cr.)

Regulation of ships, Marine Crew, Charter parties, Sea carriage of goods, Safety at sea, Marine insurance.
BLAW 006  PRINCIPLES OF LABOR AND SOCIAL SECURITY LAW – (1Cr.)
قانون العمل والضمان الاجتماعي

BLAW 007  LAW OF PROFESSIONAL PRACTICES - (1Cr.)
قانون النقابات المهنية
Definition of professional practices, Common rules of professional practices, special rules of professional practices.

BLAW 008  INTELLECTUAL PROPERTY RIGHTS - (1Cr.)
حقوق الملكية الفكرية

BLAW 009  CITIZENSHIP AND FOREIGNERS STATUS (1Cr.)
الجنسية اللبنانية ومركز الأجانب
- التعريف بالجنسية اللبنانية ومركز الأجانب، إبراز القواعد القانونية العامة التي تغطي الجنسية اللبنانية، تعريف الطالب بقواعد الجدال، وتطور هذا المفهوم بمعايير الجنسية، المعابد، أبعاد التعاون القانوني، ذلك كلها، من أهمية الجنسية بالنسبة للفرد، الدولة، داخلًا – دوليا – أوروبا – أوروبا، دراسة أحكام الجنسية، الانتقادات، بناء بالنسبة للشخص الطبيعي، دراسة قواعد وقواعد − كيف وفقها الجنسية: القضاء المختص بمنازعات الجنسية، معروفة ودراسة مركز الأجانب في لبنان، وعلاقة ذلك بمسألة تشجيع الاستثمارات الأجنبية في لبنان.

PLSC 001  PRINCIPLES OF POLITICAL SCIENCE - (1Cr.)
مبادئ العلوم السياسية
Origin of Political Science, Object of Political Science, Relation between Political Science and other branches of knowledge, Motion of state, Motion of Public Power.

5- BUSINESS ADMINISTRATION

BACC 001  INTRODUCTION TO ACCOUNTING (2Crs.:2Lec)
This course is designed for non-business students. Therefore, it introduces accounting in general, and then covers the basics of the financial accounting cycle for service and merchandising. This course includes an introduction to accounting and its branches, the use of financial accounting, different types of business, activities, legal forms of business organizations, the accounting equation, the recording process, preparing financial statements, and accounting for merchandising business.

BMGT 001  INTRODUCTION TO MANAGEMENT (2Crs.:2Lec)
This course is designed for non-business students. This course provides students with an overview of the various management functions. Students are prepared to engage the entrepreneurial opportunities in the arts as small business owners and managers. Upon completion, students will possess the basic knowledge of managerial functions in the context of small and large corporations. Students must be able to use the basic managerial functions such as controls and set goals, provide leadership, and create an environment of clear strategic vision and analysis. Students will be able to recognize their own career paths in the business of the arts.
BMGT 002  ENTREPRENEURSHIP (2Crs.:2Lec)
In this course the student will learn the essential skills needed to start and manage a successful new business venture. Topics include: the challenge of entrepreneurship, building a business plan, marketing and financial issues with a startup company, and how to gain a competitive advantage.

BMGT 004  HOTEL MANAGEMENT (2Crs.:2Lec)
This introductory course acquaints the student with the scope and complexity of the hospitality industry by exploring the national and global relationships of lodging, food, and beverage operations. The course examines career opportunities, organizational structures, history and human resource management. Students will examine trends, integrated technology and its effects on customer and guest service in requirements in the lodging and food service industry.

BECO 001  INTRODUCTION TO ECONOMICS (2Crs.:2Lec)
This course is designed for non-business students. The objective of this one semester course is to enable you to acquire an understanding of a few select microeconomic and macroeconomic principles that are a part of your everyday environment. This course will provide techniques for improved decision-making. Topics to be discussed include introduction to economics, market mechanism, elasticity, market structure, national accounts, aggregate expenditures and equilibrium national income, economic stability, inflation and economic growth. This course meets the core business requirements for economics, and may serve as a social science elective for most students.

BFSC 001  INTRODUCTION TO FEASIBILITY STUDY (2Crs.:2Lec)
This course is designed for non-business students. This course provides students with definition of an economic feasibility study, the relation between an economic feasibility study and economic development, the steps to do a pre-feasibility study, the detailed feasibility study (marketing, technical and engineering, financing, financial). Also this course helps the student to apply a feasibility study on small projects.

BMKT 001  INTRODUCTION TO MARKETING (2Crs.:2Lec)
This course is designed for non-business students. A beginners course in marketing which stresses on the marketing function's contribution to any organization. Topics include buyer behavior, products, and channels of distribution, promotion, and pricing and social issues in marketing. Standard business and non-traditional aspects of marketing are explored.

6- SCIENCE

BIOL 001  ISSUES IN SUBSTANCE ABUSE (2Crs.:2Lec)
Various substances including alcohol, sedative-hypnotics; cocaine; xanthines; cannabis; hallucinogens; and other substances causing health problems in our culture are identified and discussed. Emphasis on history, symptoms of use and abuse, and the role of the health educator in prevention and referral.
BIOL 002  GLOBAL WARMING (2Crs.:2Lec)
This course explores the science of climate change. Students will learn how the climate system works; what factors cause climate to change across different time scales and how those factors interact; how climate has changed in the past; how scientists use models, observations and theory to make predictions about future climate; and the possible consequences of climate change for our planet. The course explores evidence for changes in ocean temperature, sea level and acidity due to global warming. Students will learn how climate change today is different from past climate cycles and how satellites and other technologies are revealing the global signals of a changing climate.

CMPS 001  MOBILE APPLICATIONS DEVELOPMENT (2Crs:2Lec)
This course teaches how to program mobile applications using some existent platform for development; for example developing Android apps with the MIT App inventors. No prior programming skills are required. Students will learn to create apps of different complexity, from drawing apps, apps with text, apps with sounds, location-aware apps, and more. Throughout this course, students will be taught the use of lists, a database, and conditional statements, as well as the creation of procedures and the concept of event-driven programming. The course is given in a lab during which the students can practice the learned material and experiment with building their own apps.

CMPS 002  NEW TRENDS IN COMPUTER TECHNOLOGY (2Crs:2Lec)
This course familiarizes students to new trends in computer technology. It walks them through different hot subjects in the field, from social networks, to cloud computing, to robotics, etc. Moreover, the course has a practical side in which it teaches students what aspects to look at when buying a new personal computer or tablet. It also introduces them to different technologies they can employ to protect their PCs against external attacks and viruses. Students will also be taught several cloud computing tools which they can use to store and exchange files on the internet.

HSSC 001  تاريخ العلوم عند العرب (2Crs.:2Lec)

SCTH 001  التفكير العلمي (2Crs.:2Lec)
ENVI 003  METEOROLOGY TODAY (2Cr.:2Lec)
The course covers the basic principles of atmospheric environment and meteorological concepts in a visual and practical manner.
In the first part (the atmospheric environment), the composition, origin, and structure of the atmosphere will be explained. In the second part (the meteorological concepts), weather stations, radar and satellites used in weather prediction will be identified and studied.
In addition, the following activities will be demonstrated by the students during the lectures:
1. Collecting and summarizing the DATA from the weather stations.
2. Interpreting the weather maps and climatological data.
3. Applying meteorological principles.
4. Distinguishing between the different types of weather reports.

ENVI 004  ENVIRONMENTAL ISSUES IN LEBANON (2Cr.:2Lec)
This course will focus on providing a basic understanding of the major threats to Lebanon’s environment including: Loss of biodiversity, effect of Littering and illegal garbage dumping on human health, dangerous effect of dumping waste water into Lebanese shore and Toxic Waste Dumping Ground and the lethal effects of Litani’s polluted water on cultivated crops.

GKMA 003  SCIENCE METHODS IN EDUCATION (2Crs:2Lec)
Theory and practice in methods of teaching science in the elementary and secondary schools with observation and practice teaching. Concepts and trends needed to design and teach curriculum materials for science education. (Not Offered to Human Sciences Students).

MATH 005  INTRODUCTION TO STATISTICS (2Crs.:2Lec)
This course covers the basic concepts in descriptive and inferential statistics relevant to decision making. The objective of this course is to help students develop statistical ways of thinking and reasoning, by providing some statistical tools for analyzing different problems. Topics include data analysis, probability, random variables, probability distributions, which characterize and generalize statistical properties, correlation and regression. Examples are drawn to aid understanding of the statistical techniques and assist in their implementation. Extensive use of statistical software package tools is made for representing and analyzing data.

PHYS 002  PHYSICS FOR EVERYDAY LIFE (2Crs.:2Lec)
Definition of physics- Physic timeline and famous figures of physics, Astronomy and cosmology (the origin and evolution of our universe (is there a life in outer space?), Atmospheric physics (Why is the sky blue-global warming), Vibrations and waves (resonance dangers and applications), Bio physics (the application of the electromagnetic waves in medicine), Nuclear physics (enrichment of uranium and nuclear power plants), Simple relativity (understanding Einstein’s special and general relativity using common sense), What is light ? (wave versus corpuscular Aspects,
Applications of the photoelectric effect), Sound waves (musical sounds and noise pollution), electric and magnetic fields (thunder storms-MRI) Understanding and analyzing a physics document (article or video or presentations).

**Phys 006 Introduction to Astronomy (2Cr.:2Lec)**

7- Engineering

**Come 001 Control of Acoustical Noise Pollution (2Cr.:2Lec)**
Sources of acoustical noise, acceptable levels of noise, different methods for noise control in buildings and factories.

**Comp 007 Website Development (2Cr: 2Lec)**
This course covers the basic concepts needed to develop a website. The topics include: Internet and Web concepts, Creating web pages, Configuring images and multimedia on web pages, Web design best practices, Accessibility, Usability search engine optimizations, Obtaining a domain name and web host, Publishing to the Web.

**Comp 008 Programming Basics (2Cr: 2Lec)**
This course introduces the craft of computer basics: organization, architecture and programming. This course introduces newest developments of digital systems. Analyze problems, prepare flow charts and write, run and debug structured programs. Build application program for educational purposes.

**PoWe 001 Electric Safety (2Cr: 2Lec)**

8- Architecture - Design and Built Environment

**Arch 001 Photography (2Cr.:1Lec,2Stu)**

**Arch 002 History of Arts (1Cr.:1Lec)**
Tracing the evolution of arts through historical periods. Review of different movements and schools. Contexts, values, and cultural influences. Principal features, designs and characteristics. Analysis and comparative studies.
ARCH 003  INTRODUCTION TO MUSIC (2Cr.:2Lec)
Musical Notes, Italian Terms: Terms connected with tempo (speed, or pace), dynamic markings, indicating volume or intensity, terms describing style, mood and expression, instruments of the orchestra and sample musical forms.

ARCH 004  FREE DRAWING (2Cr.:1Lec,2Stu)
Techniques of artistic expression and presentation. Different materials and tools such as pencil, charcoal, pastel, and water colors as well as other media, drawing, depiction and rendering of various objects. Indoor and Outdoor contexts. Freehand drawing, illustration and portrayal skills.

9- MEDICAL SCIENCES

PHAR 001  MEDICINAL HERBS (1Cr.:1Lec)
Introduction, historical background, classification of medicinal herbs, immuno-stimulant herbs, herbs used in the treatment of urinary, digestive, and circulatory systems diseases, medicinal herbs and addiction.

PHAR 002  HORMONES and THEIR ACTIONS (2Cr.:2Lec)
Introduction, glands and neural components, homeostatic feedback mechanisms, pituitary gland, thyroid gland, parathyroid glands, pancreas, adrenal glands, ovaries and testes.

PHAR 003  MICROBIAL DISEASES (1Cr.:1Lec)
Principles of diseases and epidemiology, control of microbial growth, antimicrobial drugs (antibiotics), immunity (natural and acquired), selected diseases caused by bacteria, parasites, fungi, viruses and prions, and their control and treatment.

PHAR 004  DRUGS and TREATMENT (1Cr.:1Lec)
Definition of a drug, types of drugs, herbal drugs, synthetic drugs, semisynthetic drugs, most commonly encountered diseases, and their control and treatment.

PHAR 005  COSMETICS (2Cr.: 2Lec.)
Topics will cover structure and functions of skin and hair, disorders of skin and hair, formulation and manufacture of cosmetic preparations, evaluation and testing of cosmetic products. This course will give the students background essential to deal with these products safety and on scientific evidence of their advantages. This information is also important for the better understanding and public counseling about choice and limitations of cosmetics.

PHAR 007  FORMS OF DRUGS (2Cr.:2Lec)
Knowledge about the formulation of different forms of marketed drugs commonly used by the public. Principle of the optimum storage conditions and the proper way for administration of different dosage forms. In addition to the information about non-prescribed drugs.
PHAR 008  **DRUGS and ABUSE (2 Cr.)**
The course aims at elevating the informative and intellectual aptitudes of students facing phase provocations and threats. The course includes and introduction to drugs definitions and perceptions. The course familiarizes students with different types of drugs. It discusses the individuals need to drugs against drug misuse and abuse. The course debates different classes of abused drug, their actions and side effects.

PHAR 009  **WATER SECRETS AND LIFE (2 Cr.)**
The course aims at inspiring the intellectual and educational awareness of students concerning the importance and vital role of water in life. The course discusses the nature, characters, forms, resources, ecological concepts, pollutants, purification, quality, types, and functions of water. The course orients students to water-related careers, management and protection strategies for specific uses, governmental and citizenship involvement. The course directs students to the importance of water conservation.

PHAR 010  **CONCEPT, PRINCIPLES AND TOOLS OF LEADERSHIP (2 Cr.)**
This course is designed to encourage students of various academic backgrounds and boost their leadership behaviours. Through a simple multi-step model, students will have the opportunity to discover the concept, definitions and theories of leadership. More importantly, this course will provide tools that help students develop a leadership style that is effective, authentic and sustainable in today’s times.

PHAR 011  **INTRODUCTION TO INTERPROFESSIONAL COLLABORATIVE PRACTICE (2 Cr.)**
The course introduces students to the concept of interprofessional collaborative practice (ICP) that is crucial for fulfilling their future role as healthcare team members and for the successful execution of patient-Centered care. The course will help students acquire and develop essential competencies such as team building, interprofessional communication, conflict managing, problem solving, shared leadership and ethical responsibilities.

NURS 001  **FIRST AID (2Crs.:2Lec,0Lab,0Tut)**
Dealing with various types of injuries caused by trauma or accidents as in disasters, war or fires, car accidents whether at home or field or streets. Thus can assess and help those in life threatening injuries, medical emergencies, and special situations as fractures, dislocation, poisoning, bleeding, burns, frostbite, etc. and have some principles of CPR for adult, infant, and child. (Not offered to Nursing students).

NURS 002  **DISASTER MANAGEMENT (2Crs.:2Lec,0Lab,0Tut)**
A guide to the basic components preparing individuals to provide health care under disaster conditions and to respond effectively in emergency situations. The student will be introduced to the principles of disaster preparedness and management, the common tasks consistent across all disaster responses, the key components of a disaster preparedness plan, health care systems frameworks for disaster response, impact of disasters, legal and ethical issues, and types of disasters and their causes.
NURS 003  CULTURE and HEALTH (1Cr.: 1Lec, 0Lab, 0Tut)
The course aims to provide university students with the basic knowledge to help understand one’s own culture. It will also enable the students to realize, understand and appreciate other culture’s norms and values as well as their effectiveness. This course tends to prepare students to be sensitive to sociocultural influences on health care and to improve their ability to evaluate health practices and beliefs.

NURS 004  TIME MANAGEMENT (2Crs.: 2Lec, 0Lab, 0Tut)
This course is designed to help students to improve their time management skills, consequently their overall personal and professional effectiveness and efficiency. The course also enables students to integrate proven time management techniques to their daily processes. This course offers selected topics that can be of assistance to students in understanding time wasters, and in analyzing their pattern of behavior, and how to deal with it to achieve effective time management.

NURS 005  HEALTH PROMOTION (1Cr.: 1Lec, 0Lab, 0Tut)
This course is designed to assist students identify the concept of health and illness, develop appropriate approaches to health promotion, enhance their knowledge and health related behaviors to improve their physical, mental, and psychosocial well-being in health and illness.

NUTR 001  PRINCIPLES OF NUTRITION (2Crs.: 2Lec, 0Lab, 0Tut)
This course covers the nutritional aspects of carbohydrates, lipids, proteins, vitamins and minerals, their source, digestion, biological importance and recommended dietary allowances for different group. The course includes a simple description of nutritional disorders prevailing in the community.

NUTR 002  PRINCIPLES OF FOOD SAFETY (1Cr.: 1Lec, 0Lab, 0Tut)
This course is designed to give students an understanding of the different transmitted to food and causing food borne illness and how it can be controlled through personal hygiene and safe handling of food in the kitchen. It focuses on hygiene controls at each stage along the food production through to the final consumption.

NUTR 003  NUTRITION OF THE YOUTH (2Crs.: 2Lec, 0Lab, 0Tut)
The course discusses the functions and food sources of nutrients required for optimal health and development of youth, including protein, carbohydrates, fats, water, vitamins and minerals. The course focuses on the importance of nutrition in the provision of energy and growth, including development of bone density and blood production. The course also illustrates the impact of food behaviours on youth health and development as well as predisposition to chronic diseases.

PHTH 001  STRETCHING (2Crs.: 2Lec, 0Lab, 0Tut)
This course will define the different types, indications, contraindications, precautions, factors affecting, principles of application, and major physiologic effects of flexibility training.

PHTH 002  BODY ERGONOMICS (2Crs.: 2Lec, 0Lab, 0Tut)
This course covers basic knowledge concerning prevention of job related diseases from the mechanical point of view.
HESC 001  TOPICS IN ADDICTION (2 Crs.: 2 Lec, 0 Lab, 0 Tut)
Addiction is a medical, psychosocial, and economic issue that affects the human population of every nation on earth. It severely disrupts bodily functions, ruins families and destroys societies. This course will introduce basic aspects of addiction and identify their toxic effects on the human body. In this course, students will explore how addiction develops, looking at the environmental, genetic and personal risks involved. They will also understand what happens when a drug enters the body and how it affects the brain, and how this process can make recovering from addiction a challenge. Substances like alcohol, cocaine, nicotine, sedative-hypnotics, cannabis, hallucinogens, opiates, and other substances causing health problems in our culture are identified and discussed. Emphasis on symptoms of use and abuse, and the treatment approaches for drug abuse and addiction.

HESC 003  INTRODUCTION TO PUBLIC HEALTH (2 Crs.: 2 Lec)
The course will cover pressing health topics and their determinants like environmental hazards, maternal and child health, non-communicable disease, infectious diseases and food safety with emphasis on mechanism of health risk reduction from an individual perspective. The sustainable development goals related to health and wellbeing and environmental sustainability will be introduced while highlighting the multisectoral actions related to risk reduction in terms of health and environment at the community level. The students will be enlightened on their social role as professionals in health promotion. The course would increase the student’s health literacy, social and personal awareness and professional connectedness with respect to health promotion.