



قرار رقم ٢٥٨١

استحداث ماسترات علمية بحثية في كلية العلوم الطبية

ان رئيس الجامعة اللبنانية
بناء" على المرسوم رقم ٨٤٥٥ تاريخ ٢٠٢٢/١٠/٢٣ (تعيين رئيس الجامعة اللبنانية)
بناء" على القانون رقم ٦٧/٧٥ تاريخ ١٩٦٧/١٢/٢٦ (تنظيم الجامعة اللبنانية) وتعديلاته
بناء" على المرسوم رقم ١٤٢٤٦ تاريخ ١٩٧٠/٤/١٤ (النظام المالي للجامعة اللبنانية) وتعديلاته
بناء" على القانون رقم ٨١/١٢ تاريخ ١٩٨١/٥/١٣ (احكام مختلفة تتعلق ببعض أنظمة الجامعة اللبنانية)
بناء" على المرسوم رقم ١١١٨ تاريخ ١٩٨٣/١٠/١٢ (انشاء كلية العلوم الطبية) وتعديلاته
بناء" على المرسوم رقم ١١٦٧ تاريخ ١٩٧٨/٤/١٥ (تفويض رئيس الجامعة اللبنانية بت بعض
المواضيع الخاضعة أصلا" لموافقة مجلس الوزراء)
بناء" على توصية مجلس كلية العلوم الطبية بجلسته بتاريخ ٢٠٢١/٣/٣
بناء" على اقتراح عميد كلية العلوم الطبية

يقرر ما يلي:

- المادة الاولى: يستحدث في كلية العلوم الطبية ماسترات علمية بحثية :
- Master of science in health administration (MHA) ماستر علمي بحثي
 - Master of science in clinical investigation (MSCI) ماستر علمي بحثي
 - Master of sciences in Medical ethics and Bioethics. ماستر علمي بحثي

وفقا" للتالي:

أ - مدة الدراسة سنتين لكل منهما

ب - تحدد البرامج والمناهج لهذه الماسترات باللوائح المرفقة بالقرار

المادة الثانية: يعمل بهذا القرار فور صدوره ويبلغ حيث تدعو الحاجة.

بيروت في :

رئيس الجامعة اللبنانية

البروفسور فؤاد أيوب

يبلغ الى:

امانة السر الجامعة

المصلحة الادارية المشتركة بكافة دوائرها

المراقب المالي

ديوان المحاسبة

مكتب التفيتش والانماء الاداري

دائرة القضايا

كلية العلوم الطبية

وزير التربية والتعليم العالي

عباس الحلبي

٢٠٢١/١١/٥

بناء" على المرسوم رقم ٨٤١٥ تاريخ ٢٠٢١/١١/٥ (تعيين رئيس الجامعة اللبنانية)

٢٤ تموز ٢٠٢١
رئيس الجامعة اللبنانية

بسام يدران

MASTER OF SCIENCE IN CLINICAL INVESTIGATION (MSCI)

Module 1: Epidemiology and Biostatistics (30 Credits)				
COURSES				
Introduction to Epidemiology	credit	theory	TD/TP	
	10	8		2
Introduction to Biostatistics	20	14		6
Module 2: Foundations of Clinical Investigation (30 Credits)				
COURSES				
Ethics of Clinical Research	credit	theory	TD/TP	
	10	6		4
The Scientific Method and Evidence-based medicine (EBM)	10	6		4
Introduction to EBM , 2 credits				
Types of Research in EBM , 4 credits				
Hypothesis formation and solving clinical questions, 4 credits				
Leadership and Teamwork				
	10	5		5
Working with, managing, and leading a clinical research team , 3 credits				
Skills and techniques for effective scientific presentations , 2 credits				
Managing conflicts in the research team, 2 credits				
Navigating institutional complexities , 3 credits				
Module 3: Mentored Research Experience (30 Credits)				
COURSES				
Writing for publication in biomedical journals	credit	theory	TD/TP	
	10	6		4
How to be a successful peer reviewer	8	5		3
How to write a grant	6	4		2
Development and presentation of a research plan and proposal (with mentor)	6	3		3
Module 4: Independent Research (30 Credits)				
COURSES				
Preparation, submission, and publication of an Original Research Article (in a PubMed indexed journal)	credit	theory	TD/TP	
	10	0		10
Seminar presentation of the published paper	5	0		5
Publication tutoring and research	5	0		5
Advanced research workshop	10	0		10



 وافق وزير التربية والتعليم العالي

 بتاريخ: ١٠ / ١١ / ٢٠٢٢



Master of Science in Clinical Investigation (MSCI)

Description

The Master of Science in Clinical Investigation (MSCI) program is primarily designed for physicians, medical residents, fellows, and faculty members who wish to receive formal training in clinical research.

The objective of the MSCI program is to produce clinical investigators who are skilled in clinical research techniques and knowledgeable about the complex issues associated with conducting sound clinical research, particularly in clinical epidemiologic patient-oriented studies. As such, all program participants are expected to be actively engaged in investigations with a mentor at the Lebanese University.

- This Degree provides an excellent transition to full-scale PhD research.

Application & Admissions Requirements

- Graduate professional degree in a healthcare-related subject area (e.g., MD, PharmD)
- Professional healthcare experience
- Proficient in English
- Statement of purpose
- Official post-secondary transcripts
- Two letters of recommendation
- History of publications or first-authored presentations at academic conferences.

Curriculum

- **Module 1: Epidemiology and Biostatistics (30 Credits)**
 - o **Introduction to Epidemiology, 10 credits (8 Theory, 2 TD/TP)**
 - Distribution and determinants of disease
 - Study designs in epidemiology
 - o **Introduction to Biostatistics, 20 credits (14 Theory, 6 TD/TP)**
 - T-tests
 - Regression
 - ANOVA
 - Logistic regression
 - Categorical data analysis techniques
 - COX proportional hazards regression
 - SPSS, STATA, and/or R workshops
- **Module 2: Foundations of Clinical Investigation (30 Credits)**
 - o **Ethics of Clinical Research, 10 credits (6 Theory, 4 TD/TP)**
 - Plagiarism
 - History and evolution of ethical research codes and regulations
 - Principles and conduct of clinical trials for medical research
 - Protection of study participants and patient privacy regulations
 - Role of physicians
 - Preparation of research protocol applications and informed consent documents

- **The Scientific Method and Evidence-based medicine (EBM), 10 credits**
(6 Theory, 4 TD/TP)
 - Introduction to EBM - 2 credits
 - Types of Research in EBM – 4 credits
 - Systematic Reviews and Meta-analysis
 - Clinical Trials
 - Phase 1 trials
 - Phase 2 trials
 - Phase 3 trials
 - Phase 4 trials
 - Cohort Studies
 - Prospective studies
 - Retrospective studies
 - Case-Control Studies
 - Cross-Sectional Surveys
 - Case Series/Reports
 - Hypothesis formation and solving clinical questions – 4 credits
 - Stating the clinical question
 - Conducting research on search engines and databases (eg. PubMed, Medline, Scopus, Web of Science, etc.)
 - Formulating the hypothesis
 - Phrasing the hypothesis
 - Choosing the right study design to test the hypothesis
- **Leadership and Teamwork, 10 credits (5 Theory, 5 TD/TP)**
 - Working with, managing, and leading a clinical research team , 3 credits
 - Roles and members of the clinical investigation team
 - Responsibilities of the Principal Investigator
 - Responsibilities of the Clinical Research Coordinator
 - Skills and techniques for effective scientific presentations , 2 credits
 - Preparing the slides
 - Connecting with the audience
 - Role of the body language (eg. posture, hand movement, tone, etc.)
 - Managing conflicts in the research team, 2 credits
 - Assuming good intentions
 - The importance of listening
 - Assessing severity
 - Openness to change (solutions)
 - Navigating institutional complexities , 3 credits
 - Role of the Institutional Review Board (IRB)
 - Role of Food and Drug Agencies
 - Introduction to Grants

وافق وزير التربية والتعليم العالي

بتاريخ: ١١ / ٥ / ٢٠٢١

- **Module 3: Mentored Research Experience (30 Credits)**
 - **Writing for publication in biomedical journals, 10 credits (6 Theory, 4 TD/TP)**
 - Introduction
 - Material and methods
 - Discussions
 - Results
 - Conclusion
 - **How to be a successful peer reviewer , 8 credits (5 Theory , 3 TD/TP)**
 - Evaluation of work
 - Work to assess the validity, quality, and originality of manuscripts
 - Rating the 'readability' of the work
 - Writing and structuring the review
 - In-house exercise of peer review (workshop)
 - **How to write a grant , 6 credits (4 Theory , 2 TD/TP)**
 - Grant exhibits in Lebanon
 - Writing the proposal summary
 - Writing the project objectives
 - Project design
 - Project evaluation
 - Future funding
 - Project budget
 - **Development and presentation of a research plan and proposal (with mentor) , 6 credits (3 Theory, 3 TD/TP)**
- **Module 4: Independent Research (30 Credits)**
 - Preparation, submission, and publication of an Original Research Article (in a PubMed indexed journal) , 10 TD/TP
 - Seminar presentation of the published paper, 5 TD/TP
 - Publication tutoring and research , 5 TD/TP
 - Advanced research workshop, 10 TD/TP




وافق وزير التربية والتعليم العالي
بتاريخ: ١١ / ١١ / ٢٠٢٠

MASTER OF SCIENCE IN HEALTH ADMINISTRATION (MHA)

Module 1: Foundations of Health Administration (30 credits)

COURSES			
	credit	theory	TD/TP
Biostatistics	4	3	1
Introduction to Public Health Policy: Role of various community, environmental and policy interventions in promoting health and health equity	6	4	2
The Lebanese Healthcare System	4	3	1
Health Organization Leadership	6	4	2
Challenges of managing complex health care systems , 2 credits			
Leadership and motivational skills relevant to performing as an effective leader , 2 credits			
Different roles associated with managing the individual, the unit, the organization, and the larger system , 2 credits			
Healthcare Finance	5	4	1
Law and the Healthcare System	5	3	2

Module 2: Healthcare Systems Improvement (30 credits)

COURSES			
	credit	theory	TD/TP
Operations management	10	8	2
Evaluating the performance of operating units , 2 credits			
Designing new or improved operating procedures and systems for competitive advantage , 2 credits			
Making short-run and long-run decisions that affect operations and managing the work force , 2 credits			
Understanding the role of operations in any organization , 2 credits			
Managing existing resources in a healthcare setting , 2 credits			
Marketing health services	6	5	1
Improving healthcare quality	8	6	2
High reliability , 2 credits			
Quality improvement tools , 2 credits			
Analytical thinking , 2 credits			
Information technology (IT)	6	4	2
IT linkages to business, planning, and governance , 3 credits			
Implications and impact of IT upon quality, cost, and operations , 3 credits			

وافق وزير التربية والتعليم العالي

تاريخ: ١١/٥/٢٠٢٢

Module 3: The MHA Executive (30 credits)				
COURSES				
Preceptorship/internship (field experience)				
Runs throughout the second year of study , 2 credits		10	theory 5	5
Students will apply for internships to shadow successful executives in healthcare institutions in a sector that is related to their professional career goals , 3 credits				
Working with, managing, and leading teams in healthcare , 2 credits				
Managing conflicts in the healthcare setting , 3 credits				
Communications negotiations		10	6	4
Executive Skills , 5 credits				
Presentation Skills , 5 credits				
Module 4: The MHA Academic (30 credits)				
COURSES				
A first-author research paper		10	0	10
Seminar presentation of the published paper		5	0	5
Publication tutoring and research , 5 credits		5	0	5
Advanced research workshop , 10 credits		10	0	10

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وافق وزير التربية والتعليم العالي
بتاريخ : ١٩ / ٥ / ٢٠٢١

Master of Science in Health Administration (MHA)

Description

The Master of Science in Health Administration (MHA) program is primarily designed for physicians, business executives, medical and public health administrators and faculty members who wish to receive formal academic training in healthcare administration and management.

The objective of the MHA program is to produce visionaries who aspire to transform the future of health care in Lebanon and the region through innovative and academic solutions. The curriculum provides core knowledge and concepts within the major healthcare disciplines to provide students with a blend of cutting-edge theory and the understanding of how it is applied within the healthcare sector. The program includes didactic components and interactive field experiences to enrich the learning experience. It culminates in a written component, whereby students address an actual strategic management issue in an actual health service organization.

- This degree provides a suitable transition to full-scale PhD research.

Application & Admissions Requirements

- Graduate professional degree in a healthcare-related subject area (e.g., MD, PharmD)
- Professional healthcare experience
- Proficient in English
- Statement of purpose
- Official post-secondary transcripts
- Two letters of recommendation
- History of academic or executive leadership roles in the healthcare industry.



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بتاريخ: ٥ / ١١ / ٢٠٢١

Curriculum

- **Module 1: Foundations of Health Administration (30 credits)**
 - **Biostatistics , 4 credits (3 Theory, 1 TD/TP)**
 - **Introduction to Public Health Policy: Role of various community, environmental and policy interventions in promoting health and health equity, 6 credits (4 Theory , 2 TD/TP)**
 - **The Lebanese Healthcare System, 4 credits (3 Theory , 1 TD/TP)**
 - **Health Organization Leadership , 6 credits (4 Theory, 2 TD/TP)**
 - Challenges of managing complex health care systems , 2 credits
 - Leadership and motivational skills relevant to performing as an effective leader , 2 credits
 - Different roles associated with managing the individual, the unit, the organization, and the larger system , 2 credits
 - **Healthcare Finance , 5 credits (4 Theory , 1 TD/TP)**
 - **Law and the Healthcare System , 5 credits (3 Theory , 2 TD/TP)**

- **Module 2: Healthcare Systems Improvement (30 credits)**
 - **Operations management , 10 credits (8 Theory , 2 TD/TP)**
 - Evaluating the performance of operating units , 2 credits
 - Designing new or improved operating procedures and systems for competitive advantage , 2 credits
 - Making short-run and long-run decisions that affect operations and managing the work force , 2 credits
 - Understanding the role of operations in any organization , 2 credits
 - Managing existing resources in a healthcare setting , 2 credits
 - **Marketing health services , 6 credits (5 Theory , 1 TD/TP)**
 - **Improving healthcare quality , 8 credits (6 Theory , 2 TD/TP)**
 - High reliability , 2 credits
 - Quality improvement tools , 2 credits
 - Analytical thinking , 2 credits
 - **Information technology (IT) , 6 credits (4 Theory , 2 TD/TP)**
 - IT linkages to business, planning, and governance , 3 credits
 - Implications and impact of IT upon quality, cost, and operations , 3 credits

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وافق وزير التربية والتعليم العالي

بتاريخ : ١١ / ١١ / ٢٠١٩

- **Module 3: The MHA Executive (30 credits)**
 - **Preceptorship/internship (field experience) , 10 credits (5 Theory , 5 TD/TP)**
 - Runs throughout the second year of study , 2 credits
 - Students will apply for internships to shadow successful executives in healthcare institutions in a sector that is related to their professional career goals , 3 credits
 - Working with, managing, and leading teams in healthcare , 2 credits
 - Managing conflicts in the healthcare setting , 3 credits
 - **Communications negotiations , 10 credits (6 Theory, 4 TD/TP)**
 - Executive Skills , 5 credits
 - Presentation Skills , 5 credits

- **Module 4: The MHA Academic (30 credits)**
 - **A first-author research paper , 10 credits (10 TD/TP)**
 - **Seminar presentation of the published paper , 5 credits (5 TD/TP)**
 - **Publication tutoring and research , 5 credits (5 TD/TP)**
 - **Advanced research workshop , 10 credits (10 TD/TP)**



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بتاريخ: ٥ / ١١ / ٢٠٢٠