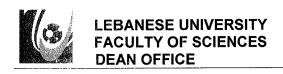


Master 1 Professional Programs Description & Curriculum



Master Program	Pharmacology
Master Type	M1 Professional
Teaching Language	English
Place of Teaching (Campus)	Hadat
About the Program	The Pharmacology graduate program consists of 1 year of course work, and is designed in collaboration with industry partners to equip biochemistry graduates with the necessary knowledge in the field of pharmacology and pharmaceutical industry. Enrollment in this program is a pre-requisite for biochemistry graduates to apply for M2 Pharmaceutical Industry graduate program at the Faculty of Pharmacy at the Lebanese University, and qualify graduate to apply for M2 programs at Faculty of Sciences / Public Health, etc During the program the student will develop scientific and analytical skills, and learn how to design and evaluate industrial, clinical and pharmacological studies.
Program Learning Outcomes	 Learn basic principles of pharmacology (drug absorption, metabolism, distribution, and elimination) and its physiological effect. Learn about therapeutic use of medications, and how to assess medication's complications and toxic effects. Get theoretical knowledge and hands-on-experience in pharmaceutical industry, and the principles followed in various industry departments (manufacturing, quality control, quality assurance, microbiology, and biotechnology) Learn how to handle research and lab data, formulating hypothesis, and analyzing and presenting experimental results using statistical inference, and to critically think about their clinical interpretation.
Fields of Work	Graduates may opt for a career in pharmaceutical industries in multiple departments, where the master's degree gives an added value for biochemists to work in drug development and manufacturing. In addition, graduates may also opt for a job in pharmaceutical companies, research organizations, quality auditors, or as a biomedical science teacher in higher professional education.
Admission Requirements	GPA: Minimum GPA of 55/100 for students from Lebanese University Minimum GPA of 3.2 for students from outside Lebanese University Major: Biochemistry
Coordinator	Pr. Mazen Kurdi
of Master Program	<u>Contact information:</u> UL Email address: mkurdi@ul.edu.lb Alternative email: mazen_kurdi@hotmail.com
Program Curriculum	Attached below

Professional Master - M1 Pharmacology 2024-2025

		Course					
	Code	Title	Credits	C	TS	Lab	Hours
	PHRM 400	Basic Pharmacology and Pharmacokinetic	5	24	24		48
	PHRM 401	Pathophysiology	4	32			32
1.1	PHRM 402	Toxicology of Drugs and Chemicals	4	32			32
Semester	PHRM 403	Pharmaceutical Microbiology	3	16	12		28
Sen	PHRM 404	Pharmaceutics	3	16	12		28
	PHRM 405	Applied Bioanalytical Procedures (Methods and Validation)	4	24		15	39
A Company of the Comp	PHRM 406	Biostatistics	4	24		15	39
	PHRM 407	English Language and Communication	3		36		36
Manager of Constitution of the Constitution of	Total	,	30	168	84	30	282

		Course					
	Code	Title	Credits	С	TS	Lab	Hours
The second secon	PHRM 409	Molecular Pharmacology	5	32		15	47
STREET OF THE PROPERTY OF THE	PHRM 412	Biotechnology	3	24			24
	PHRM 413	Applied Drug Spectroscopy	4	24		15	39
ter 2	PHRM 414	Biopharmaceutics	2	8	12		20
Semester	PHRM 418	Pharmacotherapy	5	40			40
Ŏ	PHRM 419	Pharmaceutical Industry and Technology	4	24	12		36
Company of the Compan	PHRM 411	Drug Design and Synthesis	3	24			24
	PHRM 417	Principles of Quality Control	2			30	30
	PHRM 420	Pharmaceutical Industry Lab	2			30	30
and the second	Total		30	176	24	90	290



Master Program	Healthcare Quality Management and Technology				
Master Type	☑ M1+ M2 Professional ☐ M2 Professional ☐ M2 Research				
Teaching Language	☑ English ☐ French ☐ Mixed - English & French				
Place of Teaching (Campus)	☑ Hadat ☐ Fanar ☐ Tripoli ☐ Nabatieh				
About the Program	This program, in partnership with Gates group, is designed to support healthcare professionals at all levels with innovative, value-added skills and tools and enable them to become leaders in their key positions. Also, this program is planned with special consideration for those whose access to learning is limited by time.				
Program Learning Outcomes	 Build systems from inception to implementation. Gain cutting-edge knowledge in the field of management with an emphasis on healthcare systems Gain hands-on experience in healthcare management. Achieve comprehensive knowledge of quality management. Learn the latest healthcare technologies for enhanced healthcare delivery. Learn the trends in national and international accreditation. Foster teamwork by working with professionals from diverse healthcare disciplines. Cultivate abilities to analyze complex issues and formulate strategic solutions. Promote research literacy and evidence-based practice for improving healthcare outcomes. Offer opportunities for networking, mentorship, and staying updated on 				
Fields of Work	 industry trends and best practices. Employed as senior managers in healthcare organizations in Lebanon and MENA region. Have working opportunities as trainers on quality and healthcare management, consultants for healthcare organization management, or as internal auditors on Lebanese accreditation standards. 				
Admission Requirements	 GPA: Minimum GPA of 55/100 for students from Lebanese University Minimum GPA of 3.2 for students from outside Lebanese University Major: ☑ Chemistry ☑ Biochemistry ☑ Animal Biology ☑ Plant Biology ☑ Math ☑ Computer Science ☑ Electronics ☑ Physics ☑ Healthcare, Public Health, Medical Sciences 				
Coordinator of Master Program	Pr. Jamal Charara (LU) Contact information: UL Email address: jcharara@ul.edu.lb Alternative email: xxx@xxx.com Phone number (optional): +961- xx - xxxxxx				

Professional Master - M1 Healthcare Management 2024- 2025

		Course				
	Code	Title	Credits	C	LS	Nb of Hours
	HMQT 411	Healthcare Management	4	24	8	32
.1	HMQT 413	Financial Management in Healthcare Organizations	4	24	8	32
Semester	HMQT 414	Governance & Leadership in Healthcare	3	16	8	24
Sem	HMQT 415	Quality Management	5	32	8	40
	HMQT 416	Biostatistics and Epidemiology	5	40		40
	HMQT 417	Hospital's Structure & Design	4	24	8	32
	HMQT 420	Workforce & Talent Management	5	32	8	40
	Total		30	192	48	240

		Course				
	Code	Title	Credits	C	LS	Nb of Hours
	HMQT 412	Healthcare Systems & Economics	5	32	8	40
	HMQT 421	Materials & Assets Management	4	24	8	32
7	HMQT 423	Health Information Systems	3	24		24
Semester	HMQT 424	Revenue Management in Healthcare	3	16	8	24
Semo	HMQT 428	Organizational Development for Healthcare Transformation	4	24	8	32
	HMQT 429	Safety and Risk Management in Healthcare Organizations	5	32	8	40
	HMQT 430	Healthcare Business Transformation	3	16	8	24
	HMQT 431	Healthcare Law and Ethics	3	16	8	24
	Total		30	184	56	240

Professional Master

M2 Healthcare Management – Quality and Technology,

Option : Quality & Accreditation 2025-2026

		Course				
	Code	Title	Credits	С	LS	Nb of Hours
	HMQA 512	Accreditation in Healthcare	5	32	8	40
	HMQA 514	Operations Management	4	24	8	32
er 3	HMQA 515	Clinical Practices Management	4	24	8	32
Semester	HMQA 516	Research Methodology in Healthcare	5	32	8	40
Š	HMQA 517	Digital Health and Artificial Intelligence	3	16	8	24
	HMQA 518	Advanced Quality and Health Technology Management	5	32	8	40
	HMQA 519	Community Health: Promotion and Communication	4	24	8	32
	Total		30	184	56	240

		Course				
er 4	Code	Title	Credits	C	LS	Nb of Hours
Semester	HMQA 580	Master Thesis	30			
x	Total		30			



Master Program	NUTRITION, DIETETICS AND FOOD SERVICE				
Master Type	☑ M1+ M2 Professional ☐ M2 Professional ☐ M2 Research				
Teaching Language	☐ English ☐ French ☐ Mixed - English & French				
Place of Teaching (Campus)	□ Hadat □ Tripoli □ Nabatieh				
About the Program	The program provides students with the information and tools to understand the future strategic, industrial and societal issues of nutrition and food and their relationships to human health. It is a question of supplementing their scientific background by a formation giving a large space to the analysis of the relationships: food-health, pathology-diet, dietetic-health, the food management and food quality control. This M1-M2 Master cycle includes theoretical courses, practical work, visits, seminars, internships as well as individual projects that stimulate students' sense of autonomy and entrepreneurship. It includes 4 semesters with a professional internship of 6 to 7 months during the fourth semester. At the end of this internship, a dissertation will be defended in				
	front of a scientific and professional jury.				
Program Learning	- Ethics and professionalism				
Outcomes	- Interdisciplinary work and communication - Policies of the dietetics profession				
	- Research skills				
	- Public health nutrition				
	- Clinical nutrition and dietetics				
	- Medical nutrition therapy				
	- Food service and safety management				
Fields of Work	The job opportunities the Master may offer are in: dietary services of the hospital, dietary centers, food industry, public institutions, school and sports centers, international organizations, offices of advice or expertise, inspection. > Hospital > Private clinic				
	> Community				
	➤ Consultancy				
	➤ Health Education				
	Agri-food or Pharmaceutical Industry				
Admission Requirements	GPA: Minimum GPA of 55/100 for students from Lebanese University Minimum GPA of 3.2 for students from outside Lebanese University Major:				
	☐ Chemistry ☑ Biochemistry ☑ Animal Biology ☑ Plant Biology				
	☐ Math ☐ Computer Science ☐ Electronics ☐ Physics				
	☑ BS in Nutrition (other universities)				
Coordinator	Pr. ELIE HAJJ MOUSSA				
of Master Program	Contact information:				
	UL Email address: ehajjmoussa@ul.edu.lb				
	Alternative email: eliehajjmoussa@yahoo.fr				
	Phone number (<i>optional</i>): +961- 03-523897				

Professional Master - M1 Nutrition, Dietetics and Food service 2024-2025

		Course					
	Code	Title	Credits	ပ	TS	LS	Hours
	NUTR 400	Quality control, safety and hygiene in food systems	4	24		15	39
_	NUTR 401	Culinary techniques	3	16		15	31
	NUTR 402	Nutrition through life cycle	4	24		15	39
Semester	NUTR 403	Introduction to human nutrition and dietetics	4	24		15	39
Se	NUTR 404	Nutrition physiology and advanced biochemistry	5	32		15	47
	NUTR 412	Research methodology and communication	2		24		24
	NUTR 413	Phytotherapy, nutraceutic and myths in food sciences	5	32		15	47
	BIOC 403	Applied immunology	3	16		14	30
	Total		30	168	24	104	296

		Course										
	Code	Title	Credits	С	TS	LS	Hours					
	NUTR 405	Food microbiology	4	24		15	39					
	NUTR 406	Advanced food science	3	16		15	31					
er 2	NUTR 407	Community nutrition	4	24		15	39					
Semester	NUTR 408	Nutrigenetics and inborn errors of the metabolism	5	32		15	47					
Sen	NUTR 409	Dietary clinic visit and nutritional assessment	3	16		15	31					
	NUTR 410	Formulation	3	16		15	31					
	NUTR 411	Toxicology, pharmacology and food-drug interactions	5	24		30	54					
	BIOC 425	Biostatistics	3	16		20	36					
	Total		30	168		140	308					

Professional Master - M2 Nutrition, Dietetics and Food service 2024-2025

		Course				
	Code	Title	Credits	С	TS	Hours
	NUTR 500	Psychology and nutrition	2	16		16
	NUTR 501	Medical nutrition therapy	6	16	40	56
	NUTR 502	Nutritional strategies in sport and application	2	8	10	18
er 3	NUTR 503	Epidemiology and sensory aspects of food	3	8	20	28
Semester	NUTR 504	Food technology	3	16	10	26
Ser	NUTR 505	Food service management : 1. cost control and feasibility, 2. marketing, 3.health care management	6	16	40	56
	NUTR 506	Law, regulation and ethics in nutrition	4	16	20	36
	NUTR 507	Seminars	2	8	10	18
	Engl 571	Scientific English	2		24	24
	TOTAL		30	104	174	278

		Course				
Semester 4	Code	Title	Credits	С	TS	Hours
	NUTR 580	Master Thesis	30			
	Total		30			



Please do not exceed one page for all the information

Master Program	Lasers and Ionizing Radiations - Safety and Protection			
Master Type	☑ M1+ M2 Professional ☐ M2 Professional ☐ M2 Research			
Teaching Language	☐ English ☐ French ☐ Mixed - English & French			
Place of Teaching (Campus)	□ Hadat □ Fanar □ Tripoli □ Nabatieh			
About the Program	Sources of Radiations- equipments in medical Field - Quantities and unites- Medical Imaging- Laser applications- Patients Dose- Radiation protection in medical field - Biology- Norms and standards- Quality Assurance program- Quality control. Nuclear security - Authorization- calculation of dose. Research Radiotherapy - Radiology - nuclear Medicine -lasers in medical filed- Diagnoses and treatments .			
Program Learning Outcomes	Quality control - calculation of dose- authorization development the new equipment for new technology .			
Fields of Work	Medical physicist- Radiation protection officer- quality control management- auditor- inspector in radiation medical filed authority body			
Admission Requirements	 GPA: Minimum GPA of 55/100 for students from Lebanese University Minimum GPA of 3.2 for students from outside Lebanese University Major: □ Chemistry □ Biochemistry □ Animal Biology ☑ Plant Biology □ Math □ Computer Science □ Electronics ☑ Physics ☑ Radiology (Health Faculty) 			
Coordinator of Master Program	Pr. Hanna EL BALAA Contact information: UL Email address: hanna.elbalaa@ul.edu.lb Alternative email: hanna_balaa@yahoo.fr Phone number (optional): +961- 03 -138193			

Professional Master - M2 Lasers and Ionizing Radiations: Safety, Protection 2024-2025

	Course						
	Code	Title	Credits	С	TS	Hours	
	LRSP 500	Nuclear security	3	16	12	28	
	LRSP 501	Emergency plan in case of radiological accident	3	16	12	28	
	LRSP 502	Laser therapy and procedures (ophthalmology and vascular)	4	24	12	36	
er 3	LRSP 503	External and internal exposition	3	16	12	28	
Semester 3	LRSP 504	Medical exposition	3	16	12	28	
Ser	LRSP 505	Professional exposition	5	24	24	48	
	LRSP 506	Public exposition	3	16	12	28	
	LRSP 507	Simulation and modeling	2	16		16	
	LRSP 508	Antennas and Systems	2	16		16	
	LRSP 509	Results operating methods	1	12		12	
	ENGL 591	Scientific English & Communication skills	1		20	20	
	Total		30	172	116	288	

LRSP 570 Seminars, scientific workshops and visits (0 Credits, 12 H)

er 4		Course				
	Code	Title	Credits	C	TS	Hours
Semester	LRSP 580	Master Thesis	30			
	Total		30			