



Faculty of Health Sciences (FHS)

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Historical Background

The Faculty of Health Sciences (FHS) was first established in 1954 as an independent School of Public Health, the first of its kind in the region. The name of the school was changed to the Faculty of Health Sciences in 1978 to accommodate programs in allied health.

FHS serves to educate and train professionals and competent leaders to help meet the health needs of Lebanon and the region. Currently, FHS hosts four departments: Epidemiology and Population Health (EPH), Environmental Health (EH), Health Behavior and Education (HBE), Health Management and Policy (HMP), and a Medical Laboratory Technology Program in collaboration with the Faculty of Medicine. FHS offers a BS degree in Health Sciences (major: Environmental Health or Medical Laboratory Technology); a master's degree in Public Health (MPH) (concentrating in EPBS – Epidemiology and Biostatistics, HBE, or HMP); an MS in Epidemiology; an MS in Population Health; and, an MS in Environmental Sciences (concentrating in EH). FHS also provides teaching of public health to students in the Faculty of Medicine.

Accreditation

In October 2006, the Graduate Public Health Program of the Faculty of Health Sciences became accredited by the Council on Education for Public Health (CEPH). CEPH is an independent agency in the United States which is recognized to accredit schools of public health. The GPH at FHS is the first graduate public health program to be accredited by CEPH outside the Americas. Accreditation indicates that the GPH of the FHS meets standards for Public Health Education of leading schools of public health in the world.

Mission

The Faculty of Health Sciences prepares professionals in the disciplines of public health and health sciences through graduate and undergraduate programs, and introduces future physicians to public health. It contributes to knowledge and the improvement of the public's health in the region by conducting scholarly and relevant research and by responding to priority health issues and training needs in collaboration with stakeholders. In all of its functions, FHS promotes and adheres to the principles of ethics, social justice, and collective responsibility.

Vision

The vision of FHS is to contribute to the promotion of the health and well-being of populations through the provision of quality higher education in public health and related disciplines. This is to be accomplished through state-of-the-art research that addresses public health problems particularly relevant to Lebanon, the region, and the developing world, and through transfer of that knowledge to policy makers, program managers, and other practitioners in relevant organizations and fields.

Undergraduate Programs

Bachelor of Science in Health Sciences (Environmental Health, Medical Laboratory Technology)

To be eligible for admission to the programs leading to the degree of Bachelor of Science in Health Sciences, candidates must have satisfactorily completed the freshman program in the Faculty of Arts and Sciences, or its equivalent, with a minimum cumulative average of 70 and a minimum science average of 70.

Lebanese students must present the Lebanese Baccalaureate, or its equivalent, and should be considered eligible by the AUB Office of Admissions for admission to the first year in health sciences. These candidates are evaluated based on SAT I scores and school performance.

Candidates holding the Lebanese Baccalaureate Part II - literature and humanities - or its equivalent are required to take CHEM 200 and MATH 203 as remedial courses. Candidates holding the Lebanese Baccalaureate Part II - sociology and economy - or its equivalent are required to take CHEM 200 as a remedial course.

Freshman students applying to the first year in health sciences must complete the following science requirements: CHEM 101 and 102, or CHEM 200; MATH 101 and 102, or MATH 203, (see page 116). Courses taken before the student is admitted to any of the BS programs in Health Sciences may be credited at the discretion of the appropriate department.

Admission

For complete and detailed information regarding admission to AUB, including recognized certificates, see the Admissions section on pp. 32–42 and Certificate and Class Chart on pp. 43–46 of this catalogue.

Graduation Requirements

All recommendations for graduation are made by a vote of the faculty, upon the recommendation of the Academic and Curriculum committee.

Bachelor of Science in Health Sciences

- **Major in Environmental Health:** To be eligible for graduation with the degree of Bachelor of Science in Health Sciences, with a major in environmental health, a student must:

1-pass a minimum of 96 credit hours (in addition to field training), after freshman science class or its equivalent,

2-achieve a total cumulative average of 70

3-achieve a **cumulative average of 70 in the major field of study**

- **Major in Medical Laboratory Technology:** To be eligible for graduation with the degree of Bachelor of Science in Health Sciences, with a major in medical laboratory technology, a student must:

1-pass a minimum of 103 credit hours after freshman science class or its equivalent,

2-achieve a total cumulative average of 70

3-achieve a **cumulative average of 70 in the major field of study**

Residency Requirements

Students of the Faculty of Health Sciences must meet the following minimum residency requirements:

- **Environmental Health Major:** A student must register in residence at the Faculty of Health Sciences - Environmental Health major for the last three regular semesters including completion of the summer field training requirement.
- **Medical Laboratory Technology Major:** A student must register in residence at the Faculty of Health Sciences - Medical Laboratory Technology Major for the last four regular semesters.

Minors and Electives

The Faculty of Health Sciences offers two minors, which require the completion of a number of courses as specified in the list below. Moreover, electives can be chosen from the following list of courses to satisfy the distributional requirements of social sciences or sciences.

- The minor in Environmental Health allows students to acquire knowledge about the components of the environmental system and the interactive processes that affect human health, environmental protection, and development.

The minor in Environmental Health requires 15 credits, including the following:

HBED 200¹, ENHL 220², plus a minimum of 10 credits selected from the following ENHL courses: ENHL 221², ENHL 230, ENHL 231, ENHL 234², ENHL 241, and ENHL 243. The following courses can be selected following the approval of the department: ENHL 232, ENHL 233, ENHL 237 or ENHL 242

- The minor in Public Health introduces students to the public health field through exposure to the disciplines of public health and current public health issues. Students are given a general overview of the field in HBED 200 and subsequently get more in-depth knowledge by choosing one course from each of the public health disciplines. A minor in public health allows students to become better consumers and producers of health, and to become more conscious of their own health and their community's health. In addition, a minor in public health expands students' career options by exposing them to an increasingly important and expanding profession.

The minor in Public Health requires 15 credits, including the following:

- HBED 200*¹
- one of the following courses from the Department of Environmental Health: ENHL 220², ENHL 221², ENHL 230, ENHL 231, ENHL 234², ENHL 241
- one of the following courses from the Department of Epidemiology and Population Health: EPHD 203², EPHD 213¹, EPHD 227²
- one of the following courses from the Department of Health Behavior and Education: HBED 201¹, HBED 203¹, HBED 237
- one of the following courses from the Department of Health Management and Policy: HMPD 204¹, HMPD 212¹, HMPD 251

The remaining credits can be taken from courses listed above in any of the departments, or from other courses in the faculty, with permission of the instructor.

To graduate with a minor, a student must attain an average of 70 or more in courses taken to satisfy the requirements of that minor.

List of Humanities/Social Sciences Electives

FHS students are allowed to select humanities/social sciences elective courses from the following list:

Humanities

- AMST: 215, 220, 230, 275/276, 299
- ARAB: 229 through 241; 243 through 247; 249
- AROL: 201 through 231; 235; 236
- CVSP: 201 through 208; 215, 216, 230; 250; 251; 295
- FAAH: FAAH 201 through 217 or 234 or 240 through 284; FAAH 221 through FAAH 229C, FAAH 235, 238

*Not required by FHS students. The credits could be replaced from courses listed in any of the FHS departments

¹ Satisfies the distribution requirements for social sciences.

² Satisfies the distribution requirements for sciences.

- FAAH/Music 240, 241, 245, 247, 248, 260, 261,
- FAAH/Theater 265, FAAH/Theater 270
- ENGL: all courses other than communication skills courses and ENGL 231, 237, 238, 294
- HIST: All 200 level courses up to 279
- PHIL: 201, 205, 206, 209, 210; 213 through 219; 221, 222, 223, 224, 230, 231, 232, 249
- SOAN: 215, 217, 225, 250
- ARCH: 020 through 029; 121
- LDEM: 201 and 262

Social Sciences

- ECON: All 200 level courses up to 243
- EDUC: 211-216; 218; 221; 222; 223; 225; 226
- PSPA: All 200 level courses up to 278 except PSPA 203
- PSYC: All 200 level courses up to 251 except PSYC 213; 223 or 243
- SOAN: All 200 level courses
- AGSC 225

Academic Rules and Regulations

Please refer to the section on General University Academic Information (pp. 47–61) for information on attendance, classes and laboratories, examinations and quizzes, course loads, premedical requirements, incompletes, probation (placement on academic probation, removal of probation), dismissal and readmission, repeating courses, special students not working for a degree, tutorials, and withdrawal from courses.

Full-Time Students and Credit Load

A full-time student must carry a minimum load of 12 credits per semester. If a student wishes, or is forced to reduce, his/her load to fewer than 12 credits, s/he must first apply to the Academic and Curriculum committee for approval. This should be done no later than 10 weeks after the start of the semester.

Students on probation for the first time are allowed a maximum load of 17 credits. Students who continue on probation beyond one semester can register for a maximum of 13 credits per semester.

Transfers

To be eligible for admission to advanced standing (second and third year), a candidate must have completed the equivalent requirements for the first (or second) year of undergraduate study in the Faculty of Health Sciences and meet the following criteria:

- a minimum cumulative average of 70
- a minimum average of 70 in science courses

A student, who has completed a minimum of two semesters of study as a sophomore, or its equivalent, is eligible for admission to the first year in the Faculty of Health Sciences if the following criteria are met:

- s/he obtains a minimum cumulative average of 70
- s/he obtains a minimum average of 70 in science courses
- s/he completes a minimum of 6 credits in basic science courses

Promotion

For class promotion from year I to year II, a student must complete a minimum of 30 credits (for EH major) or 31 credits (for MLT major), excluding credits for ENGL 102. For class promotion from year II to year III, a student must complete a minimum of 63 credits (for EH major) or 65 credits (for MLT major).

New students accepted to the undergraduate programs (EH, MLT), who refrain from following the assigned course curriculum, have their academic status changed automatically from regular to majorless. Majorless students are given two academic semesters to transfer to the desired major. If, by the end of the second semester, the student does not secure acceptance to the desired major, s/he is not allowed to register beyond that.

Computer Literacy Exemption

New students should sit for a computer literacy exemption exam within the first month of enrollment. Those who do not pass the test are allowed to retake it another time within the second semester. If the test is not passed the second time, then students are requested to take a 3 credit computer literacy course, over and above the requirements of the program.

Curricula for Bachelor of Science in Health Sciences

Major: Environmental Health

First Year¹

First Semester		Lecture Hrs./ Week	Lab Hrs./ Week	Credit Hrs.	
BIOL	200	Diversity of Life	3	3	4
CHEM	208	Brief Survey of Organic Chemistry	3	0	3
CHEM	209	Introductory Organic Laboratory	1	4	2
ENGL	203	Academic English	3	0	3
ENHL	220	Introduction to Environmental Sciences	3	0	3
				Total	15

¹ CHEM 200 is a remedial course required of Literature and Humanities and Sociology and Economics Baccalaureate holders.
MATH 203 is a remedial course required of Literature and Humanities Baccalaureate holders.

Second Semester		Lecture Hrs./ Week	Lab Hrs./ Week	Credit Hrs.	
ENHL	221	Management of Domestic and Hazardous Wastes	3	0	3
ARAB	201A/B/211 or above		3	0	3
ENGL	204	Advanced Academic English	3	0	3
Humanities Elective			-	-	3
Humanities Elective			-	-	3
				Total	15

Second Year

First Semester		Lecture Hrs./ Week	Lab Hrs./ Week	Credit Hrs.	
ENHL	231	Water and Wastewater Quality Control	3	0	3
ENHL	232	Instrumentation, Analytical Techniques, and Sampling	2	3	3
ENHL	237	Environmental Microbiology	3	3	4
EPHD	203	Epidemiology and Biostatistics	2	2	3
HMPD	251	Introduction to Health Care Economics	3	0	3
				Total	16

Second Semester			Lecture Hrs./ Week	Lab Hrs./ Week	Credit Hrs.
ENHL	233	Quality Determination of Water and Wastewater	1	4	3
ENHL	234	Occupational Health and Toxicology	3	2	4
ENHL	230	Food Quality and Control	4	0	4
EPHD	213	Survey Methods	2	2	3
Free Elective			-	-	3
				Total	17
Summer Session					
ENHL	236	Summer Field Training	-	-	0

Third Year

First Semester		Lecture Hrs./ Week	Lab Hrs./ Week	Credit Hrs.	
ENHL	241	Indoor and Outdoor Air Pollution	3	0	3
ENHL	242	Environmental Management Tools and Applications	2	4	3
HMPD	204	Introduction to Health Services Administration	3	0	3
HBED	237	Theories and Methods of Health Education	3	0	3
Free Elective			-	-	3
Free Elective			-	-	3
				Total	18

Second Semester		Lecture Hrs./ Week	Lab Hrs./ Week	Credit Hrs.	
ENHL	243	Global Environmental Issues	1	6	3
HBED	203	Health Communication	2	2	3
PHIL	209	Environmental Ethics	3	0	3
Free Elective			-	-	3
Humanities Elective			-	3	
				Total	15

Major: Medical Laboratory Technology**First Year**

First Semester		Lecture Hrs./ Week	Lab Hrs./ Week	Credit Hrs.	
BIOL	200	Diversity of Life	3	3	4
CHEM	208	Brief Survey of Organic Chemistry	3	0	3
CHEM	209	Introductory Organic Laboratory	1	4	2
ENGL	203	Academic English	3	0	3
Humanities Elective		3	0	3	
Total 15					
Second Semester		Lecture Hrs./ Week	Lab Hrs./ Week	Credit Hrs.	
ARAB	201A/B/211 or above	3	0	3	
BIOC	255	Biochemistry for MLTP (or its equivalent)	3	0	3
ENGL	204	Advanced Academic English	3	0	3
PHYL	246	Physiology for Nursing Degree Students and Undergraduates	4	0	4
Humanities Elective		3	0	3	
Total 16					

Second Year

First Semester		Lecture Hrs./ Week	Lab Hrs./ Week	Credit Hrs.	
LABM	201	Clinical Chemistry I	2	0	2
MLTP	201	Clinical Hematology I	3	0	3
MLTP	203	General Microbiology	2	2	3
MLTP	207	Immunology and Blood Banking	2	0	2
MLTP	208	General and Diagnostic Virology	2	0	2
Social Sciences Elective		3	0	3	
Humanities Elective		3	0	3	
Total 18					

Second Semester			Lecture Hrs./ Week	Lab Hrs./ Week	Credit Hrs.
LABM	202	Clinical Chemistry II	2	0	2
LABM	210	Cytology and Histological Techniques	2	0	2
MBIM	223	Parasitology for MLT students	2	4	4
MLTP	202	Clinical Hematology II	3	0	3
MLTP	204	Systematic Bacteriology	2	4	4
MLTP	259	Diagnostic Serology	1	0	1
Total 16					

Summer Session			Lecture Hrs./ Week	Lab Hrs./ Week	Credit Hrs.
Practical Training in Laboratory Medicine			-	-	4
Total 4					

Third Year

First Semester		Lecture Hrs./ Week	Lab Hrs./ Week	Credit Hrs.	
EPHD	203	Epidemiology and Biostatistics	2	2	3
HMPD	204	Introduction to Health Services Administration	3	0	3
LABM	233	Genetics and Molecular Biology	2	0	2
LABM	235	Medical Mycology	1	0	1
Practical Training in Laboratory Medicine		-	-	8	
Total 17					

Second Semester			Lecture Hrs./ Week	Lab Hrs./ Week	Credit Hrs.
Humanities Elective			3	0	3
HBED	203	Health Communication	3	0	3
LABM	234	Special Topics/Techniques in Laboratory Medicine	2	0	2
MLTP	211	Seminar	1	0	1
Practical Training in Laboratory Medicine		-	-	8	
Total 17					

Practical Training in Laboratory Medicine

A total period of ten months (July to June excluding a one month vacation in September) to cover practical experience and application of theoretical knowledge in the following areas of laboratory medicine, for the periods and credits indicated below:

				Duration Credits	
LABM	220	Clinical Chemistry and Endocrinology	8 weeks	4	
LABM	230	Clinical Hematology and Special Procedures	8 weeks	4	
LABM	240	Clinical Microbiology	8 weeks	4	
LABM	250	Clinical Parasitology and Urinalysis	4 weeks	2	
LABM	260	Serology	4 weeks	2	
LABM	270	Blood Banking	4 weeks	2	
LABM	280	Reception, Cytogenetics, Molecular Diagnosis and Histotechniques	4 weeks	2	