

Contents

Notice	2
Academic Calendar 2017-2018	14
Board of Trustees	18
Trustees Emeriti	18
International Advisory Council	19
University Administration 2017–18	20
The University	24
Accreditation.....	24
Mission Statement.....	25
History	25
Location and Climate	27
Academic Services.....	27
Admissions	33
Graduate Studies.....	33
Graduate Council	33
Areas in Which Graduate Study Is Offered.....	33
Application Procedures.....	40
Admission.....	42
Transfer Credits	46
General University Academic Information	49
Academic Rules and Regulations.....	49
Academic Advisors	49
RCR Requirement.....	49
Academic Dishonesty	49
Plagiarism	50
Correct Use of Language	50
Attendance.....	50
Leave of Absence.....	52
Category of Students	52
Registration	54
Courses and Grades.....	55
Transfer of Credits	56
Change of Major within Faculty and Interfaculty Transfer	57
Academic Standing of Students Working for a Master’s Degree	57
Requirements for the Master’s Degree.....	58
Supervision of Master’s Thesis or Project.....	61
Master’s Degree Graduation Requirements.....	65
Academic Standing of Student Working for PhD Degree.....	65
Requirements for the Degree of Doctor of Philosophy.....	66
Admission to Candidacy	68
Supervision of Doctoral Thesis	69
PhD Degree Graduation Requirements	72
Disclosure of Student Records.....	72
Graduation	73

Recognition of AUB Degrees by the Lebanese Ministry of Education	74
Medical Record.....	74
National Social Security Fund (NSSF) Medical Branch.....	75
Health Insurance Plan (HIP)	75
Passports and Visas	76
Payment of Fees	76
Study Abroad for Graduate AUB Students	76
Financial Aid	77
Need-Based Financial Aid Grants	77
Need-Based Student Loans.....	77
U.S. Federal Student Loans	78
Graduate Assistantships.....	78
Fees and Expenses	79
Payment of Fees	79
Withdrawals	80
Office of Student Affairs	81
Student Activities	81
Counseling.....	82
Accessibility	82
Career and Placement Services	83
University Sports	84
Student Housing.....	84
Bursary Program	86
Work-Study Program	87
Office of International Programs	88
International Student Services	88
Visas and Residence Permits	88
OIP Resources for Faculty	90
Faculty of Agricultural and Food Sciences (FAFS)	92
Historical Background.....	92
Mission.....	93
Vision	93
Graduate Programs.....	93
PhD Program	93
RCR Requirement.....	94
Food Security Program (FSP)	94
Mission	94
Graduate Programs.....	95
MS Degree in Food Security.....	95
Course Descriptions.....	97
Department of Agriculture (AGRI)	98
Graduate Programs.....	98
MS Degree in Agricultural Economics	98
MS in Animal Science	99
MS Degree in Irrigation	101
MS Degree in Plant Protection	102
MS Degree in Plant Science.....	103
MS in Poultry Science	104

Department of Nutrition and Food Sciences (NFSC)	106
Graduate Programs.....	106
MS in Nutrition	106
MS in Food Technology	108
Department of Landscape Design and Ecosystem Management (LDEM)	112
Graduate Program	112
The Environment and Sustainable Development Unit (ESDU)	114
MS in Rural Community Development	114
Faculty of Arts and Sciences (FAS)	122
Historical Background.....	122
Mission.....	123
Vision	123
Graduate Study	123
RCR Requirement.....	123
Transfer of Credits	125
Department of Arabic and Near Eastern Languages	126
MA in Arabic Language and Literature	126
Doctor of Philosophy in Arabic Language and Literature.....	126
Course Descriptions.....	129
Department of Biology	131
MS in Biology	131
PhD in Cell and Molecular Biology	131
Course Descriptions.....	134
Sample Student Programs of Study	137
Department of Chemistry	139
MS in Chemistry	139
Course Descriptions.....	140
Department of Computer Science	143
MS in Computer Science	143
Course Descriptions.....	143
Department of Economics	147
MA in Economics	147
MA in Financial Economics.....	149
Department of Education	153
Prerequisites.....	154
Requirements.....	154
Course Descriptions.....	154
Department of English	158
Mission Statement.....	158
MA in English Literature	159
Literature Course Descriptions	159
MA in English Language.....	162
Department of Fine Arts and Art History	164
MA in Art History and Curating	164
Course Descriptions.....	164

Department of Geology	166
MS in Geology	166
Course Descriptions.....	166
Department of History and Archaeology	169
MA in History.....	169
Doctor of Philosophy in Arab and Middle Eastern History	169
MA in Archaeology.....	172
Department of Mathematics	175
MS in Mathematics.....	175
MA or MS in Statistics.....	175
Course Descriptions.....	176
Department of Philosophy	180
MA in Philosophy.....	180
Department of Physics	182
MS in Physics	182
Doctor of Philosophy in Theoretical Physics	182
Department of Political Studies and Public Administration	189
MA in Political Studies	189
MA in Public Administration	189
Course Descriptions.....	190
MA in Public Policy and International Affairs.....	196
Department of Psychology	209
MA in General Psychology.....	209
MA in Clinical Psychology	210
Course Descriptions.....	210
Department of Sociology, Anthropology, and Media Studies	213
Admission	213
MA in Anthropology	213
MA in Sociology.....	214
Graduate Studies in Anthropology and Sociology.....	214
MA in Media Studies.....	217
Course Descriptions.....	218
The Anis Makdisi Program in Literature (AMPL)	221
Objectives	221
Activities	221
Scholarships	221
Center for Arab and Middle Eastern Studies (CAMES)	222
Requirements.....	223
MA in Middle Eastern Studies	223
MA in Islamic Studies	226
The Prince Alwaleed Bin Talal Bin Abdulaziz Al Saud Center for American Studies and Research (CASAR)	232
MA in Transnational American Studies	232
Project Option	232
Thesis Option	233
Course Descriptions	233

Center for Language Research and Teaching (CeLRT)	234
Kamal A. Shair Central Research Science Laboratory (KAS CRSL)	235
Graduate Program in Computational Science (GPCS)	236
Admission Requirements	236
Graduation Requirements	237
Core Courses Offered in Computational Science	237
Institute of Financial Economics (IFE)	239
Research Program.....	239
Administration and Faculty	240
Science and Mathematics Education Center (SMEC)	241
University Preparatory Program (UPP)	242
The Zaki Nassif Program for Music (ZNP)	243
Objectives.....	243
The Center for Arts and Humanities (Mellon Grant)	244
The Writing Center	245
Suliman S. Olayan School of Business (OSB)	248
History and Overview.....	250
Accreditation.....	251
Our Vision	251
Our Mission.....	251
Ethics and Integrity at OSB.....	251
RCR Requirement.....	251
Organization and Governance	252
Graduate Programs.....	252
The Executive MBA Program.....	252
Executive MBA Courses.....	256
The Masters in Finance (MFIN) Program	279
The Master in Human Resource Management (MHRM) Program	285
The MS-BA Program	290
Maroun Semaan Faculty of Engineering and Architecture (SFEA)	298
Mission.....	299
Graduate Programs/Master’s Degree Programs.....	299
Doctor of Philosophy (PhD) Programs	300
Financial Support Available to Graduate Students	301
Biomedical Engineering Graduate Program	302
Master of Science in Biomedical Engineering.....	303
PhD in Biomedical Engineering	304
Course Descriptions.....	307
Professional Post Graduate Diploma Program in Green Technologies (Pro-Green).....	313
Elective Courses	317
Course Loads, Credit Transfer, and Sample Program	317
Course Descriptions.....	318
Elective Courses	323
Department of Architecture and Design	325
Graduate Programs	325
General Information.....	325
Mission Statements/Master of Urban Design.....	326

Master of Urban Planning and Policy	326
Program Structure and Agenda.....	326
Admission Qualifications.....	329
Course Descriptions.....	329
Department of Civil and Environmental Engineering	334
Graduate Programs.....	334
Master of Engineering (ME)	335
Major: Civil Engineering (CE)	336
Major: Environmental and Water Resources Engineering (EWRE).....	336
Master of Science (MS)/Major: Environmental Technology (ET).....	338
Doctor of Philosophy (PhD)	338
Qualifying Exam Part I: Comprehensive Exam	339
Qualifying Exam Part II: Defense of Thesis Proposal	340
PhD in Civil Engineering (CE)	342
PhD in Environmental and Water Resources Engineering (EWRE)	343
Course Descriptions.....	343
Department of Chemical and Petroleum Engineering	355
General Information.....	355
Master of Engineering (ME); Major: Chemical Engineering.....	355
Master of Science (MS); Major: Chemical Engineering.....	357
Course Description	359
Department of Electrical and Computer Engineering	362
Graduate Programs.....	362
Master of Engineering in Electrical and Computer Engineering	362
PhD in Electrical and Computer Engineering	365
Course Descriptions.....	371
Department of Industrial Engineering and Management	384
General Information.....	384
Requirements for Admission	385
Dual Master Degree – Master of Engineering in Engineering Management and Energy Studies (Thesis option only)	385
Course Descriptions.....	387
Department of Mechanical Engineering	392
General Information.....	392
Master of Engineering (ME)	392
Master of Engineering (ME)/Major: Mechanical Engineering.....	393
Master of Mechanical Engineering (ME) Major: Applied Energy.....	395
Master of Science Degree Program in Energy Studies	397
Dual Master Degree – Master of Engineering in Engineering Management and Energy Studies (Thesis option only)	401
Doctor of Philosophy (PhD)	403
Course Descriptions	409
Energy Studies Interdisciplinary Courses	424
Faculty of Health Sciences (FHS)	428
Historical Background.....	428
Accreditation.....	429
Mission	429

Vision	429
Graduate Programs.....	429
Admission.....	430
Master of Public Health (MPH).....	430
Master of Science in Epidemiology.....	431
Master of Science in Population Health	431
Master of Science in Environmental Sciences/Major: Environmental Health.....	432
Graduation Requirements.....	432
Academic Rules and Regulations.....	433
Curricula	438
Executive Master in Health Care Leadership (EMHCL)	445
Admission Requirements	445
Program Outline	446
Program Delivery	447
Academic Rules and Regulations.....	447
Course Descriptions.....	449
Scholars in HeAlth Research Program (SHARP)	452
Background.....	452
Mission.....	452
SHARP Summer Certificate Program Curriculum	452
SHARP Master of Science in Health Research.....	453
Course Descriptions.....	457
Department of Environmental Health	462
Department of Epidemiology and Population Health	464
Department of Health Promotion and Community Health	469
Department of Health Management and Policy	473
Center for Research on Population and Health (CRPH)	476
Center for Public Health Practice (CPHP)	477
Knowledge to Policy Center (K2P)	478
K2P Functions and Activities:	478
Collaborations.....	479
The Center for Systematic Reviews on Health Policy and Systems Research (SPARK).....	480
SPARK Activities	480
Collaborations.....	480
Faculty of Medicine and Medical Center (FM/AUBMC).....	482
Historical Background.....	483
The MD Program	484
Graduation Requirements.....	488
Dean's Honor List	488
Academic Rules and Regulations.....	489
Courses.....	490
Course Descriptions.....	490
Curricula	491
Interdepartmental Courses – Medical Program	493
PhD Program	498

Biomedical Engineering Graduate Program.....	505
Master of Science in Biomedical Engineering.....	506
PhD in Biomedical Engineering	507
Course Descriptions.....	510
Department of Anatomy, Cell Biology and Physiological Sciences.....	516
Anatomy and Cell Biology	516
Physiology.....	518
Neuroscience	520
Department of Anesthesiology.....	521
Department of Biochemistry and Molecular Genetics	522
Undergraduate courses.....	522
Graduate courses	523
Department of Dermatology.....	527
Department of Diagnostic Radiology	529
Department of Emergency Medicine	530
Educational Programs.....	530
Department of Experimental Pathology, Immunology and Microbiology	531
Department of Family Medicine.....	534
Residency Program	534
Teaching Activities.....	535
University Health Services (UHS)	535
Faculty Development	535
Satellite Clinics	535
Department of Internal Medicine.....	536
Weekly Conferences.....	538
Agreements.....	538
Department of Neurology.....	539
Department of Obstetrics and Gynecology.....	540
Department of Ophthalmology.....	541
Department of Otolaryngology and Head and Neck Surgery.....	542
Master of Science in Orthodontics.....	544
Department of Pathology and Laboratory Medicine.....	550
Department of Pediatrics and Adolescent Medicine	553
Department of Pharmacology and Toxicology	555
Department of Psychiatry	557
Clinical Psychology Training Program.....	557
Application Process	558
Application material	558
Prerequisite courses	558
English requirement	558
Department of Radiation Oncology.....	560
Department of Surgery	561
Post-Graduate Training	561
Affiliations	564

Scholars in HeAlth Research Program (SHARP)	565
Background	565
Mission	565
SHARP Summer Certificate Program Curriculum	565
SHARP Master of Science in Health Research	566
Course Descriptions	570
Rafic Hariri School of Nursing (HSON)	576
Historical Background	577
Mission	577
Vision	577
Admission	578
MSN Tracks	579
Graduation Requirements	579
Academic Rules and Regulations	579
Curriculum	582
Course Descriptions	584
Interdisciplinary Programs	591
Master Degree Program in Environmental Sciences	592
General Information	592
Criteria for Admission	592
Comprehensive Examination	593
Degree Requirements	593
Graduation Requirements	596
Master of Science in Environmental Sciences-Suggested Curriculum	597
Course Descriptions	599
Interfaculty Graduate Neuroscience Program (IGNP)	608
Admission Requirements	608
Graduation Requirements for the MS in Neuroscience	608
Course Descriptions	609
Interfaculty Graduate Nutrition Program (GNP)	611
Degree Requirements	611
Research and Outreach Centers and Institutes	613
AUB Nature Conservation Center (NCC)	614
Introduction	616
Membership and Governance	617
Center for Advanced Mathematical Sciences (CAMS)	618
CAMS Objectives	618
Center for Civic Engagement and Community Service	620
The Issam Fares Institute for Public Policy and International Affairs (IFI)	621
Climate Change and Environment	621
Education and Youth Policy Research	621
Human Rights in the Arab World Program	622
International Affairs	622
Non-state Actors Program	622
Palestinian Oral History Archive	622
Public Policy Impact Lab	623
Refugee Research and Policy	623

Social Justice and Development Policy	623
United Nations in the Arab World	623
Nadim Makdisi Memorial Fund	623
Munib and Angela Masri Institute of Energy and Natural Resources	624
Introduction	624
Mission	624
Objectives	625
Activities of the Institute	625
Continuing Education Center (CEC)	628
Background	628
Mission	629
Vision	629
Programs of Study	629
General Criteria for Admission	630
Graduation Requirements for Certificate and Diploma Programs	630
Certificate Programs	630
Diploma Programs	641
Certificate and Diploma Programs Course Descriptions	644
Non-Certificate Courses	664
Public Workshops	674
Scholarships and Awards	675
The AUB Summer Program for AUB Alumni Children (SPAAC)	677
Future Developer Summer Program for Kids	678
Genius Mind Summer Program for Kids	678
University for Seniors	679
CEC Rules and Regulations	679
Endowed Faculty Chairs, Academic Centers, Programs, Institutes; Student Scholarships, Hardships; Fellowships; Awards; and Research Funds	684
Endowed Faculty Chairs	684
Academic Centers, Programs, and Institutes	685
Scholarships and Hardship Grants	685
Fellowships	700
University Prizes and Awards	700
Research Funds	706
Faculty list	708
Deans Emeriti	708
Professors Emeriti	708
Faculty Members	708
Index	742

Academic Calendar 2017-2018

2017	
June 2	Registration for Med. III, and Med. IV
June 5	Academic year begins for Med. III, and Med. IV
June 5 - 9	Payment of fees for Med. III, and Med. IV
June 5 - August 17	Submission of applications for deferral of payment for Fall 2017 for all current registered students, and new sophomore/ first year students. Application available on the web-site.
June 25 - 27	Id Al Fitr, holiday. No classes
June 28 - August 16	Submission of documents for all new undergraduate students (except Medicine)
June 30	Deadline for payment of commitment fee for new students
August 2 - September 14	Payment of fees for Fall 2017 for current students
August 8	Registration for Med. I, and Med. II students
August 14	Orientation for Med. I students
August 14 - 17	Submission of applications for deferral of payment for Fall 2017 for old returning, new students coming from abroad, new graduates, new Freshman students, special and transfer students. Application available on the web-site
August 14	Academic year begins for Med. I, and Med. II
August 16 - 18	Payment of fees for Med. I, Med. II, and FM graduate students
August 16	Deadline for submission of all official required documents
August 22 - 24	Advising for all new and old returning students
August 22 - 25	Orientation for all new students. Office of Student Affairs. Details are posted on the Registrar's Office Web Site
August 22	International Student Welcome Day (all new degree-seeking and visiting/exchange students)
August 24 - 30	On-line course registration for all new and old returning students according to the registration guide
August 24 - September 14	Payment of fees for Fall 2017 for new students
August 24	Visiting and Exchange group advising meeting
August 28 - 30	On-line registration for continuing students for Fall 2017 (except Medicine)
Fall Term 2017-18	
August 30	Fall 2017 Semester begins for all Faculties except the MD program
August 31 - September 8	Change of schedule for the Fall 2017 semester (Drop & Add)
September 1 - 3	Al-Adha, holiday, No classes
September 4	Opening Ceremony

September 15 - 22	Late payment of fees for all students
September 22	Hijra New Year, holiday. No classes
September 27	Cancel registration for all students who did not settle their fees
September 28	Set financial holds for all students who did not settle their financial account (Comptroller's Office)
September 29	Deadline for submitting NSSF declaration for the academic year 2017-18
October 1	Ashoura, holiday. No classes
November 6 - 8	Spring 2018 semester advising for continuing students
November 9 - January 10	Spring 2018 semester on-line course registration for continuing students
November 13	Advising and Registration for Winter Session 2018
November 13 - December 27	Inter-Faculty on line transfer applications for the Spring 2018 semester
November 20 - 24	Payment of Fees for the Winter Session 2018
November 22	Independence Day, holiday
November 24	Last day for withdrawal from courses for the Fall 2017 semester
December 1	Prophet's Birthday, holiday. No classes
December 4	Founder's Day. Classes will be held
December 7	Last day of classes for the Fall term 2017
December 8 - 11	Reading Period for the Fall 2017 semester
December 11 - January 19	Submission of applications for deferral of payment for the Spring 2018 semester for all current registered students. Application available on the web-site.
December 12 - 22	Fall 2017 Final Examinations
December 22	Fall 2017 semester ends for all Faculties except the MD program
December 23 - January 1	Christmas and New Year vacation
January 3 - February 7	Payment of fees for continuing students for the Spring 2018 semester
January 6	Armenian Christmas, holiday. No classes
January 8	Winter Session 2018 begins
January 9	Drop and Add for Winter Session 2018
January 9 - 19	Submission of applications for deferral of payment for the Spring 2018 semester for new & old returning. Application available on the web-site.
January 11 - 16	Submission of official documents for all new students for the Spring 2018 semester

January 15 - April 13	Inter-Faculty on line transfer applications for the Fall Term 2018
January 17 - February 7	Payment of fees for new students
January 22 - 24	New students orientation. Office of Student Affairs
January 22	International Student Welcome Day (all new degree-seeking and visiting/exchange students)
January 22	Deadline for withdrawal from the Winter Session 2018
January 23 - 26	Spring advising & on-line course registration for all new students
January 23	Visiting and Exchange Group Advising Meeting
January 27	Final Exam for Winter Session 2018
Spring Term 2018	
January 29	Spring 2018 semester begins for all Faculties except MD program
January 30 - February 2	Change of schedule for Spring 2018 semester
February 8 - 15	Late payment for all students for Spring 2018
February 9	St. Maroun's Day, Holiday, No classes
February 23	Deadline for submitting NSSF Declaration for the second semester
March 25	Annunciation Day, holiday. No classes
March 30 - April 2	Easter vacation-Latin, holiday. No classes
April 6 - 9	Easter vacation-Greek Orthodox, holiday. No classes
April 9 -13	Advising for continuing students for the Summer 2018, and Fall 2018
April 10 - 13	On-line registration for continuing students for the Summer 2018
April 19 - August 10	Fall 2018 semester on-line course registration for continuing students
April 20	Last day for withdrawal from courses for the Spring 2018 semester
April 30	Academic year ends for Med. II
May 1	Labor Day, No classes
May 5	End of Clinical Clerkships for Med. III and IV
May 10 - 13	Reading Period for the Spring 2018 semester
May 14 - 24	Spring 2018 Semester Final Examinations
May 14 - 15	Submission of official documents, advising & registration for all new students for Summer 2018
May 15 - June 14	Payment of fees for the Summer 2018
May 24	Spring 2018 semester ends for all Faculties except MD program
May 25	Academic year ends for Med. III and Med. IV

Summer 2018	
June 4	Classes begin for Summer 2018 for all Faculties except MD program
June 5 - 8	Change of schedule for the Summer Term (Drop & Add)
June 8	Commencement Exercises (Graduate)
June 9	Commencement Exercises (Undergraduate)
June 15 - 20	Late Payment for the Summer 2018
June 15 - 17	Id Al Fitr, holiday. No classes
June 24	Academic year ends for Med. I
July 13	Last day for withdrawal from courses for the Summer 2018
July 21	Classes end for all Faculties except Faculty of Agricultural & Food Sciences, and Medical Laboratory Sciences
July 23 - 24	Reading period for Summer 2018
July 25 - 31	Summer 2018 Final examinations for all Faculties except the MD program, FAFS, and Medical Laboratory Sciences
July 28	Classes end for the Faculty of Agricultural & Food Sciences, and Medical Laboratory Sciences
July 30 - August 4	Summer 2018 Final examinations for the Faculty of Agricultural & Food Sciences, and Medical Laboratory Sciences
August 15	Assumption Day Holiday

* The first two days of the reading period may be used for make up sessions if needed.