

Contents

Academic Calendar 2014–15	16
Board of Trustees/Trustees Emeriti/International Advisory Council.....	19
University Administration 2014–15	21
The University	25
Statement of Accreditation Status (SAS).....	25
Mission Statement	26
History	26
Location and Climate.....	28
Academic Services	28
Archaeological Museum.....	28
Center for Teaching and Learning (CTL)	29
Office of Information Technology (OIT)	29
IT Academic Core Processes and Systems	29
AUBnet Intranet and Internet Services	30
Computer Labs.....	30
Help Desk	30
Medical Center	30
IT Medical Center Processes and Systems.....	30
Libraries.....	31
Office of Institutional Research and Assessment (OIRA)	32
Office of University Advancement.....	32
Admissions	33
Graduate Studies	33
Graduate Council.....	33
Areas in Which Graduate Study Is Offered	34
Master’s Degrees	34
PhD Degrees.....	35
Combined Degree Programs	36
Application Procedures	36
English Language Proficiency Requirement (ELPR)	37
Further Requirements	38
Admission.....	39
Admission to Master’s Programs	39
Admission to the Master’s Degree Programs	39
Admission as a Regular Student.....	40
Admission on Probation	41
Admission as Prospective Graduate Student (FAFS, FAS, and FEA).....	41
Requirements for a Dual Masters Degrees	42
Admission to PhD Programs	44
Admission for Students Holding a Master’s Degree.....	44
Admissions for Students Holding Bachelor’s Degree	44
Admission as a Non-degree Graduate Student.....	45
Admission as a Visiting Graduate Student	45
Deferred Registration of Admitted Students	46
General University Academic Information	47
Academic Rules and Regulations	47

Academic Advisers	47
Academic Dishonesty	47
Plagiarism.....	47
Correct Use of Language	48
Attendance	48
Attendance Policy.....	48
Classes and Laboratories	48
Examinations and Quizzes	48
Leave of Absence	49
Category of Students	49
Full-Time Status	49
Auditing Courses	49
Full-Time Status for University Graduate Assistants and Graduate Research Assistants.....	50
Registration	51
Requirements	51
Cross-Registration	51
Courses and Grades	52
Course Loads.....	52
Graduate Level Courses.....	52
Prerequisite Courses	52
Change of Grade Policy	52
Incompletes	53
Transfer of Credits	53
Transfer of Credits into a Master’s Degree Program	53
Transfer of Credits from One Master’s Degree to Another.....	53
Calculation of the GPA	53
Transfer of Credits into a PhD Degree Program	54
Change of Major within Faculty and Interfaculty Transfer.....	54
Academic Standing of Student Working for a Master’s Degree.....	54
Good Standing.....	54
Probation and Removal of Probation	54
Students Admitted on Probation	55
Students placed on probation during regular status residency	55
Dismissal	55
Requirements for the Master’s Degree	56
Course Requirements.....	56
Language Requirements (Other than English)	56
Residence Requirements.....	57
Comprehensive Examination	57
Institutional Review Board (IRB)/Animal Care Committee (ACC) Requirements	57
Supervision of Master’s Thesis or Project	58
Thesis Proposal	58
Thesis Format	59
Thesis Defense	59
Project and Project Defense	59
Deposit of the Project/Thesis in the Library.....	60
Master’s Degree Graduation Requirements	61
Academic Standing of Student Working for PhD Degree	61
Good Standing.....	61

Probation and Removal of Probation	61
Dismissal	62
Requirements for the Degree of Doctor of Philosophy	62
Program of Study	62
Regular PhD Track Course Requirements for Students Holding Master's Degrees	62
Accelerated PhD Track Course Requirements for Students Holding Bachelor Degrees	63
Language Requirements (Other than English)	63
Residence Requirements.....	63
PhD Qualifying Exam.....	63
Admission to Candidacy	64
Supervision of Doctoral Thesis.....	65
PhD Thesis Committee	65
PhD Thesis Proposal	65
Qualifying Exam Part II: Defense of Thesis Proposal	66
Institutional Review Board (IRB)/ Animal Care Committee (ACC) Requirements	66
PhD Thesis Format	66
PhD Thesis Defense	67
Deposit of the Thesis in the Library.....	67
PhD Degree Graduation Requirements	68
Disclosure of Student Records	68
Graduation.....	69
Requirements.....	69
Commencement Exercises.....	69
Names on Diplomas and Degrees.....	69
Recognition of AUB Degrees by the Lebanese Ministry of Education	70
Medical Record	70
National Social Security Fund (NSSF) Medical Branch	71
Health Insurance Plan (HIP)	71
Passports and Visas	72
Payment of Fees	72
Study Abroad for Graduate AUB Students.....	72
Fees and Expenses	73
Payment of Fees	73
Withdrawals.....	74
Financial Aid	75
Need-Based Financial Aid Grants	75
U.S. Federal Student Loans	75
Student Work-Study.....	76
Graduate Assistantships	76
Office of Student Affairs.....	77
Student Activities.....	77
Counseling.....	78
Career and Placement Services	78
University Sports.....	79
Student Housing	80
Bursary Program.....	82
Work-Study Program	82

Office of International Programs (OIP).....	83
Passports, Visas, and Residence Permits	83
International Student Services.....	83
Study Abroad/Student Exchange	84
OIP Resources for Faculty.....	85
Faculty of Agricultural and Food Sciences (FAFS).....	87
Officers of the Faculty	88
Historical Background	88
Mission.....	88
Vision	89
Graduate Programs	89
Animal and Veterinary Sciences (AVSC).....	90
Vision	90
Mission.....	90
Graduate Programs	90
MS in Animal Science.....	91
MS in Poultry Science.....	92
Agricultural Sciences (AGSC)	94
Graduate Programs	94
MS in Agricultural Economics	94
MS in Irrigation	95
MS in Plant Protection.....	95
MS in Plant Science	96
Nutrition and Food Sciences (NFSC).....	99
Graduate Programs	99
MS in Nutrition	99
MS in Food Technology.....	101
Landscape Design and Ecosystem Management (LDEM)	104
Graduate Programs	104
The Environment and Sustainable Development Unit (ESDU).....	106
Faculty of Arts and Sciences (FAS)	111
Officers of the Faculty.....	112
Historical Background	112
Mission	113
Vision	113
Graduate Study	113
Admission as a Regular Graduate Student	113
Admission as a Graduate Student on Probation	114
Admission as a Prospective Graduate Student	114
Arabic and Near Eastern Languages.....	115
MA in Arabic Language and Literature	115
Doctor of Philosophy in Arabic Language and Literature.....	115
Course Descriptions	118
Biology	120
MS in Biology.....	120
PhD in Cell and Molecular Biology.....	120

Course Descriptions	123
Sample Student Programs of Study	126
Chemistry	128
MS in Chemistry	128
Course Descriptions	129
Computer Science.....	131
MS in Computer Science.....	131
Course Descriptions	131
Economics.....	135
MA in Economics.....	135
MA in Financial Economics	137
Electives (two courses: 6 credits)	138
Transfers between the Two Programs	140
Education.....	141
MA in Education.....	141
Prerequisites.....	142
Requirements	142
Course Descriptions	142
English	146
MA in English.....	146
Geology.....	149
MS in Geology.....	149
Course Descriptions	149
History and Archaeology.....	152
MA in History	152
Curriculum	152
Doctor of Philosophy in Arab and Middle Eastern History.....	153
Curriculum	154
MA in Archaeology	156
Mathematics	157
MA or MS in Mathematics.....	157
MA or MS in Statistics.....	157
Course Descriptions	158
Philosophy.....	161
MA in Philosophy	161
Physics	163
MS in Physics.....	163
Doctor of Philosophy in Theoretical Physics.....	163
Course Descriptions	166
Political Studies and Public Administration (PSPA)	170
MA in Political Studies/MA in Public Administration	170
Course Descriptions	171
Psychology	177
MA in General Psychology.....	177
MA in Clinical Psychology	178
Course Descriptions	178

Sociology, Anthropology, and Media Studies.....	181
MA in Anthropology.....	181
MA in Sociology	181
Course Descriptions	182
MA in Media Studies	184
Course Descriptions	186
The Anis Makdisi Program in Literature (AMPL).....	188
Center for Arab and Middle Eastern Studies (CAMES).....	189
The Prince Alwaleed Bin Talal Bin Abdulaziz Alsaud	
Center for American Studies and Research (CASAR).....	195
Center for Behavioral Research (CBR)	197
Center for English Language Research and Teaching (CELRT)	198
Kamal A. Shair Central Research Science Laboratory (KAS CRSL).....	199
Graduate Program in Computational Science (GPCS)	200
Institute of Financial Economics (IFE).....	202
Science and Mathematics Education Center (SMEC)	204
University Preparatory Program (UPP)	205
The Zaki Nassif Program for Music (ZNMP).....	206
The Writing Center.....	207
Suliman S. Olayan School of Business (OSB).....	209
Officers of the School	210
Professional Administrators.....	210
Program Directors	210
Center Director	210
International Board of Overseers.....	210
Middle East Advisory Board	211
The Finance, Accounting, and Managerial Economics Track.....	212
The Management, Marketing, and Entrepreneurship Track.....	212
The Business Information and Decision Systems Track	212
History and Overview.....	212
The First AUB Faculty to Be Named	213
Accreditation	213
Our Vision	213
Our Mission	213
Ethics and Integrity at OSB	214
Organization and Governance.....	214
Graduate Programs	214
The Executive MBA Program.....	215
Philosophy.....	215
Admission to the Program	215
Program Outline	216
The Curriculum	216
Program Delivery	217
Academic Policies.....	217
Executive MBA Courses.....	218

The MBA Program.....	223
Philosophy.....	223
Admission to the Program.....	224
Program Outline.....	225
Program Delivery.....	226
Academic Policies.....	227
MBA Courses.....	227
The Masters in Finance (MF) Program.....	236
Admission to the Program.....	236
Program Outline.....	237
Academic Policies.....	238
MFIN Courses.....	239
The Masters in Human Resource Management (MHRM) Program.....	242
Philosophy.....	242
Admission to the Program.....	242
Program Outline.....	243
Academic Policies.....	244
MHRM courses.....	244
Faculty of Engineering and Architecture (FEA).....	247
Officers of the Faculty.....	248
Historical Background.....	248
Mission.....	248
Graduate Programs.....	249
Master's Degree Programs.....	249
Deadlines.....	249
Process of Admission.....	249
Regulations for Master's Students Taking Undergraduate Courses.....	250
Curricula and Courses.....	250
Courses Open to Students from Other Faculties.....	250
Doctor of Philosophy (PhD) Programs.....	250
Criteria for Regular Admission to PhD Programs.....	250
Criteria for Admission to the Accelerated PhD Programs.....	251
Financial Support Available to Graduate Students.....	251
Professional Diploma Program in Green Technologies (ProGreen).....	252
General Description of the Pro-Green Diploma Program.....	252
Objectives of the Pro-Green Diploma Program.....	252
Eligibility.....	253
Admissions Requirements.....	253
Language Requirements.....	253
Pro Green Program Structure and Degree Requirements.....	253
Course Requirements.....	254
Core Courses.....	254
Specialization Courses.....	254
Elective Courses.....	255
Course Loads, Credit Transfer and Sample Program.....	256
Course Descriptions.....	256
Architecture and Design.....	265
Graduate Programs.....	265

Master of Urban Design (MUD).....	265
Master of Urban Planning and Policy (MUPP).....	265
General Information.....	265
Mission Statements.....	266
Program Structure.....	266
Program Agenda.....	267
Admission Qualifications.....	269
Course Descriptions.....	269
Civil and Environmental Engineering.....	274
Graduate Programs.....	274
Master of Engineering and Master of Science Programs.....	274
Doctor of Philosophy Programs.....	274
Master of Engineering (ME).....	275
Major: Civil Engineering (CE).....	275
Major: Environmental and Water Resources Engineering (EWRE).....	276
Master of Science (MS), Major: Environmental Technology (ET).....	277
Doctor of Philosophy (PhD).....	278
PhD in Civil Engineering (CE).....	282
PhD Environmental and Water Resources Engineering (EWRE).....	283
Course Descriptions.....	283
Electrical and Computer Engineering.....	293
Graduate Programs.....	293
Master of Engineering in Electrical and Computer Engineering.....	293
PhD in Electrical and Computer Engineering.....	299
Course Descriptions.....	305
Mechanical Engineering.....	318
General Information.....	318
Master of Engineering (ME), Major: Mechanical Engineering.....	318
Master of Engineering, Major Applied Energy.....	319
Doctor of Philosophy (PhD), Specialization: Mechanical Engineering.....	321
Chemical Engineering Program.....	326
Master of Engineering (ME), Major: Chemical Engineering.....	326
Master of Science (MS), Major: Chemical Engineering.....	327
Course Descriptions.....	329
Engineering Management Program.....	346
General Information.....	346
Requirements for Admission.....	347
Course Descriptions.....	347
Faculty of Health Sciences (FHS).....	353
Officers of the Faculty.....	354
Historical Background.....	354
Accreditation.....	355
Mission.....	355
Vision.....	355
Graduate Programs.....	355
Admission.....	356
Graduation Requirements.....	357

Academic Rules and Regulations	359
Master of Science in Epidemiology, Master of Science in Population Health and Master of Science in Environmental Sciences (Major: Environmental Health)	359
Credit Load	359
Master of Public Health Program	359
Credit Load	359
Policy on Course Registration	359
Policy on Changing Concentration	360
Policy on Exemption	360
Policies on Transfer of Credits	361
Procedure for Exemption and Transfer of Credits	361
Probation	361
Curricula	362
Master of Public Health	362
Master of Science in Epidemiology	365
Master of Science in Population Health	365
Master of Science in Environmental Sciences	366
Interdisciplinary Courses	366
Interdepartmental Courses	367
Executive Master of Healthcare Leadership (EMHCL)	368
Admission Requirements	368
Program Outline	368
Program Delivery	369
Academic Rules and Regulations	370
Course Descriptions	371
Scholars in HeAlth Research Program (SHARP)	375
Background	375
Mission	375
SHARP Summer Certificate Program Curriculum	375
SHARP Master of Sciences in Health Research	376
Curriculum	376
Course Descriptions	377
Environmental Health	381
Epidemiology and Population Health	383
Health Promotion and Community Health	388
Health Management and Policy	392
Center for Research on Population and Health (CRPH)	396
Outreach and Practice Unit (OPU)	397
Faculty of Medicine and Medical Center (FM/AUBMC)	399
Officers of the Faculty	400
Historical Background	401
Mission	402
Vision	402
Program Outline	403
Admission	403
Graduation Requirements	405

Dean's Honor List	405
Academic Rules and Regulations	406
Attendance	406
Language Requirement	406
Promotions and Deficiencies	406
Graduate Study in the Basic Medical Sciences, PhD in Biomedical Science	407
MS Disciplines	407
Admission to MS Programs	407
Courses and Thesis Requirements	407
PhD Program	408
Mission	408
Program Objectives	408
PhD Disciplines	409
Academic Governance	409
Admission Requirements	409
Financial Support	409
Program Requirements	410
Core Courses	410
Course Descriptions	411
PhD Thesis Requirements	412
Graduation Requirements	413
Curricula	415
Interdepartmental Teaching	417
Anatomy, Cell Biology and Physiological Sciences	422
Anesthesiology	426
Biochemistry and Molecular Genetics	427
Dermatology	431
Diagnostic Radiology	433
Emergency Medicine	434
Experimental Pathology, Immunology and Microbiology	436
Family Medicine	438
Internal Medicine	440
Obstetrics and Gynecology	443
Ophthalmology	444
Otolaryngology and Head and Neck Surgery	445
Master of Science in Orthodontics	447
Pathology and Laboratory Medicine	452
Pediatrics and Adolescent Medicine	455
Pharmacology and Toxicology	457
Psychiatry	459
Radiation Oncology	460
Surgery	461
Scholars in HeAlth Research Program (SHARP)	464
Background	464
Mission	464
SHARP Summer Certificate Program Curriculum	464

SHARP Master of Sciences in Health Research	465
Curriculum.....	465
Course Descriptions.....	466
Rafic Hariri School of Nursing.....	471
Officers of the School	472
Faculty	472
Historical Background	473
Mission.....	473
Vision	473
Admission.....	474
MSN Tracks	474
Graduation Requirements.....	475
Academic Rules and Regulations	475
Transfer of Credits.....	475
Supervision, Courses, and Grades	475
Probation and Dismissal	475
Comprehensive Examination.....	475
Thesis/Project	476
Specific Requirements for the Master's Degree	477
Curriculum	477
Course Descriptions	479
Division of University Interdisciplinary Programs (DUIP)	483
Officers of the Faculty	484
Background	484
Mission.....	484
Objectives.....	484
Master of Science Degree Program in Energy Studies.....	485
Educational Goals and Program Learning Outcomes.....	485
Admissions Requirements	485
Degree Requirements	486
Credit Summary	486
Required Core Courses	487
Sample Program	488
Graduate Requirements	489
Course Descriptions.....	489
Master Degree Programs in Environmental Sciences.....	494
General Information	494
Criteria for Admission.....	494
Comprehensive Examination	495
Degree Requirements	495
Masters of Science in Environmental Sciences—Suggested Curriculum.....	499
Course Descriptions	500
Interdisciplinary Research Centers and Programs	509
Interdisciplinary Research Centers and Programs	510
AUB Nature Conservation Center (NCC).....	511
Center for Advanced Mathematical Sciences (CAMS)	514

Center for Civic Engagement and Community Service (CCECS)	516
The Issam Fares Institute for Public Policy and International Affairs (IFI)	518
Interfaculty Graduate Neuroscience Program (IGNP)	521
Interfaculty Graduate Nutrition Program (GNP)	523
Continuing Education Center (CEC).....	525
Officers of the Center.....	526
Background	526
Mission.....	526
Vision	527
Programs of Study	527
General Criteria for Admission	527
Graduation Requirements for Certificate and Diploma Programs	528
Certificate Programs.....	528
Diploma Programs.....	533
Certificate and Diploma Programs Course Descriptions.....	536
Non-Certificate Courses.....	549
Public Workshops.....	557
Scholarships and Awards	558
The AUB Summer Program for AUB Alumni Children (SPAAC)	560
University for Seniors	561
CEC Rules and Regulations	562
Endowed Faculty Chairs, Academic Centers, Programs, Institutes; Scholarships, Hardships, Fellowships; Awards; Research Funds	565
Endowed Faculty Chairs.....	566
Academic Centers, Programs and Institutes.....	566
Scholarships and Hardship Grants.....	567
Fellowships.....	576
University Prizes and Awards	576
Faculty of Agricultural and Food Sciences	577
Faculty of Arts and Sciences.....	577
Faculty of Engineering and Architecture	578
Faculty of Health Sciences.....	579
Faculty of Medicine.....	580
Suliman S. Olayan School of Business.....	580
Current and Endowed Research Funds.....	581
Faculty List	583
Deans Emeriti.....	584
Professors Emeriti	584
Faculty Members.....	584
Index	613

Academic Calendar 2014–15

2014	
May 19	Registration for Med. III, and Med. IV
June 2	Academic year begins for Med. III, and Med. IV
June 2–6	Payment of fees for Med. III, and Med. IV
June 9–August 1	Submission of applications for deferral of payment for Fall 2014 for all current registered students, and new sophomore/first year students. Application available on the website
June 30	Deadline for payment of commitment fee for new students
July 1–August 20	Submission of documents for all new undergraduate students (except Medicine)
July 18–September 9	Payment of fees for Fall 2014 for current students
July 28–30	Id Al Fitr, holiday. No classes
August 12	Registration for Med. I, and Med. II students
August 12–18	Registration for FM graduate students
August 15	Orientation for Medicine I students
August 18–21	Submission of applications for deferral of payment for Fall 2014 for old returning, new students coming from abroad, new graduates, new freshman students, not working for a degree and transfer students. Application available on the website
August 18	Academic year begins for Med. I, Med. II, and FM graduate students
August 19–22	Payment of fees for Med. I, Med. II, and FM graduate students
August 20	Deadline for submission of all official required documents
August 25–28	Orientation for all new students. Office of Student Affairs
August 25–28	Advising for all new and old returning students
August 25	Classes begin for Med. I, and FM graduate students.
August 26	Visiting International student pre-orientation program for all students from abroad. Office of International Programs
August 28–September 9	Payment of fees for Fall 2014 for new students
August 28–September 3	Online course registration for all new and old returning students according to the registration guide
September 1–3	Phase II online registration for continuing students for Fall 2014 (except Medicine)
Fall Term 2014–15	
September 3	Fall 2014 Semester begins for all faculties except Medicine
September 4–9	Change of schedule for the Fall 2014 semester (Drop and Add)
September 8	Opening Ceremony
September 10–17	Late payment of fees for all students
September 22	Set financial holds for all students who did not settle their financial account (Office of the Comptroller)
September 24	Cancel registration for all students who did not settle their fees

October 3	Deadline for submitting NSSF declaration for the academic year 2014–15
October 4–6	Al-Adha, holiday, No classes
October 25	Hijra New Year, holiday. No classes
November 3	Ashoura, holiday. No classes
November 7	Last day for withdrawal from courses for the Fall 2014 semester
November 11–12	Spring 2015 semester advising for continuing students
November 13–January 14	Spring 2015 semester online course registration for continuing students
November 17–January 2	Inter-faculty online transfer applications for the Spring 2015 semester
November 22	Independence Day, holiday. No Classes
December 1	Founder's Day. Classes will be held
December 10–12	Reading Period for the Fall 2014 semester
December 13	Fall 2014 examinations begin
December 15–30	Submission of applications for deferral of payment for the Spring 2015 semester for all current registered students. Application available on the website
December 22	First 2014 semester ends for all Faculties except Medicine
December 23–January 1	Christmas and New Year vacation
January 2	Prophet's Birthday, holiday. No classes
January 3–15	Payment of fees for continuing students for the Spring 2015 semester
January 6	Armenian Christmas, holiday. No classes
January 13–23	Submission of applications for deferral of payment for the Spring 2015 semester for new and old returning. Application available on the website
January 15–20	Submission of official documents for all new students for the Spring 2015 semester
January 16–26	Late payment for continuing students for Spring 2015
January 16	International student pre-orientation program for students coming from abroad. Office of International Programs
January 19–21	New students orientation. Office of Student Affairs
January 19–March 6	Inter-faculty online transfer applications for the Fall Term 2015
January 20–23	Spring advising and online course registration for all new students
January 21–28	Payment of fees for new students
Spring Term 2015	
January 26	Spring 2015 semester begins for all Faculties except Medicine
January 27–30	Change of schedule for Spring 2015 semester
January 29–February 5	Late payment of fees for new students for the Spring 2015
February 9	St. Maroun's Day, holiday. No Classes
February 13	Deadline for submitting NSSF Declaration for the second semester
March 25	Annunciation Day, holiday. No classes
April 2	Last day for withdrawal from courses for the Spring 2015 semester

April 3–6	Easter vacation-Latin, holiday. No classes
April 10–13	Easter vacation-Greek Orthodox, holiday. No classes
April 14–17	Advising for continuing students for the Summer 2015, and Fall 2015
April 14–17	Online registration for continuing students for the Summer 2015
April 23–August 14	Fall 2015 semester Phase I online course registration for continuing students
April 30	Academic year ends for Med. II
May 1	Labor Day, holiday. No classes
May 8–10	Reading Period for the Spring 2015 semester
May 11	Spring 2015 semester examinations begin
May 16	Second semester ends for all faculties except Medicine
May 18–19	Submission of official documents, advising and registration for all new students for Summer 2015
May 19	Spring 2015 semester ends for all Faculties except Medicine
May 19–26	Payment of fees for the Summer 2015
May 27–June 5	Late Payment for the Summer 2015
May 29	Academic year ends for Med. III and Med. IV
May 29	Commencement Exercises (Graduate)
May 30	Commencement Exercises (Undergraduate)
Summer 2015	
June 1	Classes begin for Summer 2015 for all faculties except Medicine
June 2–5	Change of schedule for the Summer Term (Drop and Add)
June 29	Academic year ends for Med. I
July 3	Last day for withdrawal from courses for the Summer 2015
July 18–20	Id Al Fitr, holiday. No classes
July 21–22	Reading Period for Summer 2015
July 23–28	Summer 2015 final examinations for all Faculties except Medicine, Agricultural and Food Sciences, and Medical Laboratory Sciences
July 24	Classes end for the Faculty of Agricultural and Food Sciences, and Medical Laboratory Sciences
July 27–August 15	Summer 2015 final examinations for the Faculty of Agricultural and Food Sciences, and Medical Laboratory Sciences
August 15	Assumption Day. Holiday. No classes