

American University of Beirut Graduate Catalogue 2008–09



Notice

For information pertaining to undergraduate programs offered by the various Faculties and Schools at AUB, consult the 2008-09 edition of the Undergraduate Catalogue.

Information in this catalogue applies to academic year 2008-09 as of September 1, 2008. The University reserves the right to make changes without prior notice in programs, course offerings academic requirements, and teaching staff as the need arises.

Student Responsibility for Catalogue Information

Students are responsible for reading the information in this catalogue. Failure to read and comply with faculty and university regulations will not exempt students from whatever penalties they may incur.

All students are assigned post office boxes and e-mail addresses. **Students are responsible for checking their post office boxes and e-mail regularly for official announcements and information.**

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This catalogue can also be viewed at <http://staff.aub.edu.lb/~webregist/catalogue.htm>

Additional information about course requirements can be viewed on the on-line Banner Catalogue available at the AUB webpage.

The American University of Beirut is an affirmative action institution and an equal opportunity employer.

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Academic Calendar 2008–09

2008	
June 5–12	Registration and payment of fees for Med. III and IV
June 16	Clerkships begin for Med. III and IV
July 2–23	Submission of applications for deferral of payment for the first semester for all current registered students, and new sophomore students. Application available on the website
July 7–11	Fall term (08-09) advising and early (Phase II) on-line course registration for current students in all faculties except Medicine
July 21–August 1	Orientation, advising and on-line registration for new undergraduate students (excluding freshmen and students coming from abroad)
July 28–August 23	Payment of fees for the first semester for all current students and new undergraduate students (excluding freshmen and students coming from abroad)
August 11–29	Submission of documents for new undergraduate, old returning and cross-registering students in all faculties except Medicine, 9:00 am–12:00 noon, Office of Admissions, College Hall (excluding freshmen and students coming from abroad)
Aug 19–26	Registration and payment of fees for Med. I and Med. II
August 25–September 10	Late payment of fees for the first semester for all current students and new undergraduate students (excluding freshmen and students coming from abroad)
August 25	Classes begin for Med. I and II
September 1	Cancel registration of new sophomore students who did not submit their official documents
September 15	Cancel registration of all students who did not settle their financial account
September 17–19	Pre-registration for new students coming from abroad, new graduate students and for new freshmen, Office of Admissions, College Hall
September 17–24	Submission of applications for deferral of payment for the first semester for old returning, new students coming from abroad, new graduate students and new freshmen. Application available on the website
September 20–21	International student orientation program, for all students coming from abroad, Office of Student Affairs

September 21–24	Freshman Orientation Program, Office of Student Affairs
September 22–26	Advising for new students coming from abroad, new graduate students, new freshmen, old returning, and cross-registering students
September 24–26	On-line course registration for new students coming from abroad, new graduate students, new freshmen, old returning, and cross-registering students
September 25–October 8	Registration of students who submitted late documents and/or settled their statement of fees beyond deadline
September 25–26	Welcome program for all new students, Office of Student Affairs
September 25–30	Payment of fees for the first semester for new graduates, old returning, cross-registering, new students coming from abroad, and new freshmen students
Fall Term 2008–09	
September 29	First semester begins for all faculties except Medicine
September 29–October 8	Change of schedule for the first semester (Drop and Add)
October 1–8	Late payment of fees for the first semester for graduate students, old returning, cross-registering, new students coming from abroad, and new freshmen
October 2–3	Id Al Fitr, holiday. No classes
October 6	Opening Ceremony
October 2–21	Deadline for submitting NSSF declaration for the academic year 2008–09
November 22	Independence Day, holiday. No Classes
December 1	Founder's Day. Classes will be held
Dec 5–12	Second semester advising for current students
December 8–January 23	Inter-faculty on-line transfer applications for the second semester 2008–09
December 9–10	Al-Adha, holiday, No classes
December 12	Last day for withdrawal from courses for the first semester
December 15–19	Second semester on-line course registration for current students
December 23	10:00 pm. Christmas and New Year vacation begins
December 29	Hijra New Year, holiday. No classes
January 6	Armenian Christmas, Holiday
January 7	10:00 pm. Christmas and New Year vacation ends
January 8–19	Submission of applications for deferral of payment for the second semester for all current registered students. Application available on the website
January 7	Ashoura, holiday. No classes
January 23	10:00 pm. Classes end for all faculties except Medicine
January 24–26	Reading period for the first semester

January 26–February 6	Payment of fees for current students for the second semester
January 27	First semester examinations begin
February 2–10	Submission of applications for deferral of payment for the second semester for new and old returning. Application available on the website
February 2–3	Second semester pre-registration for new, old returning and cross-registering students
February 5	New students orientation, Office of Student Affairs
February 7	First semester ends for all faculties except Medicine
Spring Term 2008–09	
February 7–19	Late Payment for the second semester for all current registered students
February 9	St. Maroun's Day, holiday. No classes
February 10–12	Second semester advising and on-line course registration for new, old returning and cross-registering students
February 10–March 2	Inter-faculty on line transfer applications for the fall term 2009–10
February 12	Second semester begins for all faculties except Medicine
February 12–20	Payment of fees for new students
February 16–20	Change of schedule for the second semester (Drop and Add)
February 21–27	Late payment for the second semester for new and old returning students
March 9	Prophet's Birthday, holiday. No classes
March 10	Deadline for submitting NSSF Declaration for the second semester
April 9	10:00 pm. Latin Easter vacation begins
April 13	10:00 pm. Latin Easter vacation ends
April 16	10:00 pm. Greek Orthodox Easter vacation begins
April 20	10:00 pm. Greek Orthodox Easter vacation ends
April 21–May 15	Inter-faculty online transfer applications for the summer term 2009
April 21–24	Advising for current students for the fall term 09–10
April 24	Last day for withdrawal from courses for the second semester

April 27–June 12	Fall term (09–10) early (Phase I) on-line course registration for current students in all faculties except Medicine
May 1	Labor Day
May 15	Classes end for Med. II
May 18–22	Advising and on-line registration for current students for summer 2009
May 29	10:00 pm. Classes end for all faculties except Medicine
May 30–31	Reading period for the second semester
June 1	Second semester examinations begin
June 13	Classes end for Med. III and IV
June 15–17	Pre-registration, advising and on-line course registration for new, old returning and cross-registering students for the Summer 2009
June 15	Second semester ends for all faculties except Medicine
Summer 2009	
June 18–25	Payment of fees for Summer 2009
June 22	Classes begin for all faculties except Medicine
June 23–25	Change of schedule for the summer term (Drop and Add)
June 26–July 2	Late Payment for Summer 2009
June 26	Classes end for Med. I
June 27	Commencement Exercises
July 8–10	Fall term (09-10) advising and early (Phase II) on-line course registration for current students in all faculties except Medicine
July 24	Last day for withdrawal from courses for summer term
August 7	10:00 pm. Classes end for all faculties except Medicine and Agricultural and Food Sciences
August 10–19	Final examinations for all faculties except Medicine and Agricultural and Food Sciences
August 14	10:00 pm. Classes end for the Faculty of Agricultural and Food Sciences
August 15	Assumption Day, holiday
August 17–22	Final examinations for the Faculty of Agricultural and Food Sciences

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George Najjar, PhD, Dean
 Khalil Hindi, PhD, Associate Dean
 Hanin Abdallah, PhD, Assistant Dean for Student Services

Faculty of Engineering and Architecture

Ibrahim Hajj, PhD, Dean
 Fadl Moukalled, PhD, Associate Dean

Faculty of Health Sciences

Iman Nuwayhid, DPH, Dean

Faculty of Medicine

Nadim Cortas, MD, Vice President for Medical Affairs and the
 Raja N. Khoury, Dean of the Faculty of Medicine
 Munthir Kozaily, MBA, Hospital Director
 Fuad Ziyadeh, MD, Associate Dean for Academic Affairs
 Ziyad Ghazzal, MD, Associate Dean for Clinical Affairs (Chief Medical Officer)
 Thurayya Arayssi, MD, Assistant Dean for Graduate Medical Education
 Ali Bazarbachi, MD, Assistant Dean for Research
 Ramzi Sabra, MD, Assistant Dean for Medical Education
 Sami Sanjad, MD, Assistant Dean for Student Affairs
 Jad Khayat, MBA, Acting Chief Financial Officer
 Luma Sidani Kronfol, RN, MPH, Director of Projects and Assistant to VP/Dean

School of Nursing

Huda Abu-Saad Huijer, RN, PhD, FEANS, Director of the School of Nursing

Office of Student Affairs

Maroun Kisirwani, PhD, Dean of Student Affairs
 Talal Nizameddin, PhD, Associate Dean of Student Affairs
 Antoine Khabbaz, PhD, Director of the Counseling Center
 Maryam Ghandour, PhD, Career and Placement Services
 Leonard Joseph Nardone, PhD, Associate Dean for University Sports
 Ghaleb Halimi, MS, MA, Director of Athletics
 Wadad El-Husseini, MA, Director of Student Activities
 Donna Alam, MA, Psychologist
 Nawal Semaan, MA, Coordinator of Student Housing
 Rania Murr, BA, Coordinator of International Student Services

Office of Financial Aid

Salim Kanaan, PhD, Director
 Hana Kobeissi, MPH, Associate Director of Financial Aid

The University

The American University of Beirut (AUB) is a private, independent, non-sectarian institution of higher learning, founded in 1866. It functions under a charter from the State of New York and is governed by a private, autonomous Board of Trustees.

The University has six faculties: Arts and Sciences, Medicine (including the School of Nursing), Engineering and Architecture, Agricultural and Food Sciences, Health Sciences, and the Olayan School of Business. At present, AUB offers programs leading to bachelor, masters, and doctoral degrees.

The University is co-educational. The language of instruction is English.

Statement of Accreditation Status (SAS)

Degrees awarded by the American University of Beirut are officially registered with the Ministry of Higher Education in Lebanon and with the Board of Education in the State of New York. AUB was granted institutional accreditation in June 2004 by the Commission on Higher Education of the Middle States Association of Colleges and Schools. In September 2006, the Council on Education for Public Health (CEPH) acted to accredit the university's Graduate Public Health Program in the Faculty of Health Sciences (FHS). The AUB Graduate Public Health Program is the first CEPH accredited public health program outside the North American continent. The Commission on Collegiate Nursing Education (CCNE) accredited AUB's School of Nursing for five years beginning October 13, 2007. The AUB Medical Center has been accredited by the Joint Commission International (JCI) as of October 2007. Previously, the Medical Center was accredited by the US-based Joint Commission on Accreditation of Healthcare Organizations (JCAHO) from 1965 until 1983, when the civil war in Lebanon prevented review teams from continuing with their periodic site visits. The JCI is the international arm of the JCAHO. The Olayan School of Business is a candidate for accreditation from the Association to Advance Collegiate Schools of Business (AACSB), and the Faculty of Engineering and Architecture is preparing for accreditation from the Accreditation Board of Engineering and Technology (ABET).

The University is also a member of the Association of American Colleges and Universities (AACU), the Council of Graduate Schools (CGS), the Association of American International Colleges and Universities (AAICU), the American Association of Collegiate Registrars and Admissions Officers (AACRAO), the Arab Association of Collegiate Registrars and Admissions Officers (Arab ACRAO), the College Board, the Council on International Educational Exchange (CIEE), the National Association for Foreign Student Advisers (NAFSA), the National Association of Student Personnel Administrators (NASPA), the National Association for College Admission Counseling (NACAC), the Overseas Association for College Admission Counseling (OACAC), and the European Council of International Schools (ECIS).

Mission Statement

The American University of Beirut (AUB) is an institution of higher learning founded to provide excellence in education, to participate in the advancement of knowledge through research, and to serve the peoples of the Middle East and beyond. Chartered in New York State in 1863, the University bases its educational philosophy, standards, and practices on the American liberal arts model of higher education. The University believes deeply in and encourages freedom of thought

and expression and seeks to foster tolerance and respect for diversity and dialogue. Graduates will be individuals committed to creative and critical thinking, life-long learning, personal integrity and civic responsibility, and leadership.

History

In 1862 American missionaries in Lebanon and Syria, under the American Board of Commissioners for Foreign Missions, asked Dr. Daniel Bliss to withdraw from the evangelical work of the mission in Lebanon to found a college of higher learning that would include medical training. It was felt that this college should have an American educational character, should be administered independently from the mission, and should be maintained by its own funds. Dr. Bliss traveled to the United States in the summer of 1862 to solicit funds for this new enterprise. By August 1864 he had raised \$100,000 but, because of inflation during the Civil War, it was decided that he should raise a sterling fund in England to start the operations of the college, leaving the dollar fund to appreciate. After collecting £4,000 in England, Dr. Bliss traveled to Beirut in March 1866.

On April 24, 1863, while Dr. Bliss was raising money for the new school, the State of New York granted a charter under the name of the Syrian Protestant College. The college opened with its first class of 16 students on December 3, 1866.

The cornerstone of College Hall, the first building on the present campus in Ras Beirut, was laid December 7, 1871, by the Honorable William E. Dodge, Sr., then Treasurer of the Board of Trustees. At this ceremony, President Daniel Bliss expressed the guiding principle of the college in these words:

"This college is for all conditions and classes of men without regard to color, nationality, race or religion. A man, white, black, or yellow, Christian, Jew, Mohammedan or heathen, may enter and enjoy all the advantages of this institution for three, four or eight years; and go out believing in one God, in many gods, or in no God. But it will be impossible for anyone to continue with us long without knowing what we believe to be the truth and our reasons for that belief."

College Hall and the first medical building were completed and put to use in 1873, and the bell in the tower of College Hall pealed for the first time in March 1874. However, College Hall was extensively damaged by a savage explosion in the early morning of November 8, 1991, and the building had to be demolished. It was later rebuilt, and the new College Hall was inaugurated in June 1999.

Since the earliest years, the University has continually expanded and developed new faculties and programs. In 1867 the University started the School of Medicine. Four years later, in 1871, both a school of pharmacy and a preparatory school were added. The latter became independent in 1960 and is currently known as International College. In 1900 the University established a school of commerce which was later incorporated into the Faculty of Arts and Sciences. When the hospital (currently the American University Hospital) opened in 1905, a school of nursing was also established. In 1910 the University opened a school of dentistry, which operated for thirty years. In the early years of the 1950s several program expansions took place. The Faculty of Engineering and Architecture was established in 1951; the Faculty of Agriculture—now the Faculty of Agricultural and Food Sciences—opened its doors in 1952; and finally, the School of Public Health—now the Faculty of Health Sciences—was started in 1954.

On November 18, 1920, the Board of Regents of the State University of New York changed the name of the institution from the Syrian Protestant College to the American University of Beirut; other charter amendments expanded the functions of the University.

At the end of June 2007, the number of degrees and diplomas awarded since June 1870 totaled 74,633.

President	Dr. Daniel Bliss	1866–02
President	Dr. Howard S. Bliss	1902–20
Acting President	Dean Edward F. Nickoley	1920–23
President	Dr. Bayard Dodge	1923–48
President	Dr. Stephen B.L. Penrose, Jr.	1948–54
Acting President	Dr. Costantine K. Zurayk	1954–57
President	Dr. J. Paul Leonard	1957–61
President	Mr. Norman Burns	1961–65
President	Dr. Samuel B. Kirkwood	1965–76
Interim President	Dr. James Cowan	1976–77
President	Dr. Harold E. Hoelscher	1977–81
Acting President	Mr. David S. Dodge	1981–82
President	Dr. Malcolm H. Kerr	1982–84
Acting President	Dr. Samir K. Thabet	1984
President	Dr. Calvin Plimpton	1984–87
President	Dr. Frederic P. Herter	1987–93
President	Dr. Robert M. Haddad	1993–96
President	Mr. David S. Dodge	1996–97
President	Dr. John Waterbury	1998–08
President	Dr. Peter F. Dorman	2008–

Marquand House, completed in 1879, is the campus residence of the President of the University. All presidents have lived there during their presidencies, except for Dr. Calvin Plimpton, Dr. Frederic Herter, Dr. Robert Haddad, and Mr. David Dodge.

Three presidents died while in office: Dr. Howard Bliss, Dr. Stephen Penrose, and Dr. Malcolm Kerr. Dr. Kerr, the ninth president, was assassinated outside his College Hall office on January 18, 1984.

Location and Climate

The University is situated in Beirut, Lebanon, at the crossroads of the Middle East. The campus on the Ras Beirut peninsula runs along the Mediterranean shore and overlooks St. George's Bay toward northern Lebanon and the snow-capped mountains to the east. The campus of just over 28 hectares (70 acres) has over 50 buildings, including the academic buildings, two halls for student activities, two men's and five women's dormitories, faculty apartments, and the Medical Center.

Lebanon enjoys a Mediterranean climate and for eight months of the year is pleasant and sunny. The winter rainy season from November to March, however, is at times damp and cold. Although most Beirut buildings are centrally heated, warm clothing is recommended for the winter months. The average annual rainfall of 86 cm (34 inches) comes chiefly in the winter when the temperature may drop below 7°C (50°F). Except for this rainy season, the weather in Beirut is delightful. The campus abounds in luxuriant flowers and trees, making it one of the most beautiful campuses in the world.

Academic Services

Academic Computing Center

The mission of the Academic Computing Center (ACC) is to promote the use of technology in teaching and learning at AUB, and to provide training and assistance to faculty members in integrating technology into their teaching. To this end ACC provides resources, training, workshops, one-to-one or group consultations, access to software and hardware, and troubleshooting support to all AUB faculty members. ACC's activities and resources reflect AUB's commitment to a state-of-the-art education for all its students, an education that prepares them to be lifelong learners and successful professionals in the contemporary information age.

Center for Teaching and Learning

The mission of the Center for Teaching and Learning (CTL) is to promote and support high quality teaching and learning at the American University of Beirut in keeping with the mission of the University, particularly the University's commitment to excellence in teaching and the enablement of students to think independently and become life-long learners. The CTL is an independent, multipurpose, interdisciplinary unit that serves all the Faculties at the University. It is administratively under the Office of the Provost. The CTL works in collaboration with the academic supporting services at the university, especially the University Libraries, the Academic Computing Center, and the Office of Institutional Research and Assessment.

Computing and Networking Services

The Computing and Networking Services (CNS) department is the central institutional information and communication technology support unit at the American University of Beirut, and is a regional leader in university technological initiatives. CNS deploys and maintains infrastructure services aimed at enhancing users' productivity by deploying seamless access to services and resources, focusing on functionality, flexibility, manageability, standardization, security, and data safety.

Networking and Communication (AUBnet)

AUBnet provides a state-of-the-art wired and wireless network infrastructure ensuring high-speed, secure, reliable, and widespread access for AUB users across the entire campus and hospital, including all dorms and faculty apartments. AUB students can connect to AUBnet using the networked public PCs available in computer labs, or may use their personal laptops or PDAs (Personal Digital Assistant) to connect to the campus-wide wireless network, AUBwlan.

Internet Services

With an AUBnet account, all students, faculty, and staff have full access to the internet, e-mail, and personal websites that are subject to quotas in order to guarantee an optimum level of access to the community. CNS offers quota free access after business hours and during holidays, and maintains the AUB official website and web server, and the Digital Documentation Center's website.

Computing Services

AUBnet users have access to more than 100 on-line e-learning courses, mostly computer-related but also office management courses, accessible via any web browser. Students, faculty, and staff may have access to application servers hosting applications such as Microsoft Office, special statistical and graphical software, programming languages, and more. CNS provides regular hardware and software consulting to the university and medical center.

Computer Labs

In addition to providing internet access, computer labs also offer a variety of other resources to students, such as printers, USB ports, CD burners, and secure network storage accessible from any public lab where they can store their data.

University Core Applications

Most of AUB's academic and administrative functions are carried out through networked and web-based applications. CNS manages the hardware and software of all university core applications such as the Student Information System (AUBsis) operated by the registrar's office, the Library Information System operated by the University Libraries, and the Financial Information System (AUBfis) operated by the comptroller's office. CNS also handles the Storage Area Network (SAN) that provides the university's enterprise storage and back-up system. The smooth and efficient functioning of those systems is ensured by a team of experienced system and database administrators.

Medical Center Information Systems

The Medical Center Information Systems entity works in conjunction with the clinical departments, hospital administration, and nursing services to cater to the overall IT needs of the hospital and the medical school. The medical center is presently going through a fast-paced computerization process focused on improving the provision of medical care and streamlining operations in accordance with the JCI accreditation standards. Information technology plays an essential role toward achieving this goal.

A web portal and web services bridge together the various medical, clinical, and financial applications running on disparate platforms to form an integrated Hospital Information System. This architecture allows us to transition gradually to new technologies without the need to compromise or re-develop solutions for well-functioning legacy systems, while at the same time affording us the ability and flexibility needed to develop the system in the highly dynamic fields of medical science and information technology.

Help Desk

Friendly and knowledgeable CNS help desk specialists are always ready to support students, faculty, and staff. For computing support contact the CNS help desk at

<http://cns.aub.edu.lb/cns/> or e-mail cns.helpdesk@aub.edu.lb or dial ext. 2260.

For more information on CNS and computing at AUB, visit our website:

<http://www.aub.edu.lb/cns/>

Medical Center

The American University of Beirut Medical Center (AUBMC) is a private, not-for-profit, in-patient and out-patient teaching facility of the Faculty of Medicine. It is a state-of-the-art tertiary/quaternary medical center that operates 334 beds out of a capacity of 420, serving 21,781 in-patients per year, and an out-patient facility receiving 224,325 visits (148,483 private; 36,449 general outpatient department; and 39,393 emergencies) per year. It provides a wide spectrum of medical, nursing, and paramedical training programs at the undergraduate and post-graduate levels in different specialties and subspecialties with 269 residents (36 Fellows, 5 PGY VI, 14 PGY V, 29 PGY IV, 48 PGY III, 49 PGY II, 88 PGY I). It is served by 229 predominantly US-trained highly-credentialed physicians. AUBMC is considered the primary and tertiary/quaternary referral medical center in Lebanon and neighboring countries. It is fully equipped and hosts a number of centers of excellence.

AUBMC is accredited by the Joint Commission International (JCIA) and the Lebanese Ministry of Public Health.

The Archaeological Museum

Founded in 1868, the University Archaeological Museum is the third oldest museum in the Near East. It was established with a donation from General Cesnola, the American Consul in Cyprus, and the collection has since grown steadily. In 2006, the Museum was completely renovated with the construction of an additional mezzanine and an extensive reorganization and thematic treatment of its collections. Today the museum exhibits a wide range of artifacts (15,000 objects; 10,000 coins) from Lebanon and neighboring countries. It traces man's progress in the Near East from the Early Stone Age to the Islamic period. The collections on display provide educational benefits to students and scholars in Near Eastern archaeology.

The museum runs a research program including field excavations and publications of museum collections. Several types of educational activities (e.g., lectures, exhibitions, children's programs, trips) are also organized in collaboration with the Society of the Friends of the Museum, which also runs the Museum Shop. The museum may be enjoyed free of charge to the public.

Opening Hours are Monday through Friday, 9 am to 5 pm. The museum is closed during official and AUB holidays.

Office of Institutional Research and Assessment (OIRA)

The Office of Institutional Research and Assessment (OIRA) coordinates institutional assessment and research activities. It is responsible for the collection, analysis, and dissemination of accurate and timely information about the University's environment and performance. In addition, the office develops and conducts assessments for various purposes at institutional, regional, and international levels.