AMERICAN UNIVERSITY OF TECHNOLOGY

CATALOGUE

2024 - 2025

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Catalogue 2024–2025

Disclaimer:

The American University of Technology follows a policy of non-discrimination, on any basis, regarding employment and enrollment levels.

The American University of Technology reserves the right to change courses, graduation requirements and tuition fees without any advance notice.

Students are held individually responsible for the information published in this Catalogue. They are not exempted from any penalties they may incur for failing to read and comply with department regulations and the American University of Technology regulations.

Campus Locations and Addresses

Halat - Main Campus

Byblos Highway
Halat-Fidar
POB 20 Byblos
Lebanon

Tel: 09-478143/4
09-478231/2/3

Fax: 09-478146

North Campus

Arida Palace
La Colline Road
Ras Maska, Dahr El Ain
Lebanon

Tel: 06-418503
71-102343

Inquiries by email should be addressed to: info@aut.edu

URL: www.aut.edu

Alma Mater

We love your shadows AUT when twilight falls silently,
Heralding men and women that would mark eternity;
Beneath the sky we'll gather, to give our faith lovingly,
Sing our love for Alma Mater that praises AUT.

From your scenes we wander, strong with wisdom and pride,
Your spirit inspires, when life's challenges we bide;
To face the sun, tame the winds, and dare carefree,
Sing out faith in Alma Mater that praises AUT

Board of Trustees

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Ms. Mona Nehme	President of Restos du Coeur.

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University Administration 2024–2025

University Administration

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Dr. Elie Honein	Provost
Mr. Marcel Hinain	Vice-President for External Relations and Development
Ms. Nesrine Dannaoui	Vice-President for External Projects for MENA Region
Mr. Michael Gholam	Vice-President for Institutional Effectiveness & Strategy
Dr. Mohamad Daher	Academic Director of Akkar Lebanon Campus
Dr. Najib Georges	Academic Director of North Lebanon Campus

Academic Affairs

Faculty of Arts & Humanities

Dr. Kamal Yazigi	Dean of the Faculty of Arts & Humanities
Dr. Liza Bastadjian	Chairperson of English Programs
Mr. Mohamed Missilmani	Associate Chairperson of Audio-Visual Program
Ms. Aya Youness	Coordinator of Journalism Program
Mr. Maroun Abboud	Acting Chairperson of Graphic Design Program
Mr. Anthony Mazraani	Coordinator of Interior Design Program
Ms. Myrna Fattoush	Director of English Intensive

Faculty of Business Administration

Dr. Pierre Khoury	Dean of the Faculty of Business Administration
Dr. Sajida El Othman	Chairperson of Management
Dr. Robert Saleeby	Coordinator of Finance & Accounting/ LSE Program
Ms. Cynthia Zouein	Coordinator of Management Program

Faculty of Applied Science

Dr. Hanna Greige	Dean of the Faculty of Applied Sciences
Dr. Georges Rammouz	Dean of Research
Dr. Paola Labaky	Chairperson of Nutrition & Dietetics Program
Ms. Jessica Maalouf	Coordinator of Nutrition & Dietetics Program
Dr. Kamil Klaime	Chairperson of Computer Communications Sciences
Dr. Walid Karam	Chairperson of Computer Science & Information Technology Programs

Institutional Effectiveness

Mr. Michael Gholam	Vice-President for Institutional Effectiveness & Strategy

Registrar's Office

Mrs. Huda Nakad	Registrar

Finance and Accounting Office

Mr. Nicolas Shoucair	Internal Auditor

Admissions Office

Dr. Najib Gergess	Director of Admissions

Student Affairs

Ms. Nay Hinain	Student Affairs Director
Mrs. Malake Aswad	Student Affairs Coordinator

Human Resources Office

Ms. Maya Issa	Personnel Affairs Senior Office

Academic Calendar
2024-2025

Fall 2024-2025 Semester		
September 2024	Monday 2 – Friday 20	Advising & course registration for all students for Fall 2024-2025
	*Monday 16	Prophet's birthday (holiday)
	Tuesday 24	First day of classes for Fall 2024-2025
	Tuesday 24 – Monday 30	Drop & add period
	Monday 30	Late registration period Orientation for new students in all campuses
October 2024	Monday 7	Start first assessment task
	Thursday 31	Last day to remove incomplete grades for Spring & Summer 2023-2024
November 2024	Thursday 14 – Thursday 21	Midterm exams period for all courses (Without class interruption)
	*Friday 22	Independence Day (Holiday)
	Monday 25	Classes resume for the Fall 2024-2025
December 2024	*Tuesday 24 --Wednesday Jan.1	Christmas & New Year (Holiday)
January 2025	*Monday Jan 6	Armenian Christmas (Holiday)
	Tuesday 7	Classes resume for the Fall 2024-2025
	Wednesday 8	Last day to withdraw from a class with a grade of "W"
	Friday 10	Last day for change major to Spring Term 2024-2025
	Monday 13	Last day of classes for Fall 2024-2025
	Tuesday 14	Projects presentation
	Wednesday 15 –Tuesday 28	Final exams period for all courses including the 2 first days English final exams
	Friday 31	Deadline for submitting grades for Fall 2024-2025

Spring 2024-2025 Semester		
February 2025	Monday 3 – Thursday 13	Advising & course registration for all students for Spring 2024-2025
	*Monday 10	St. Maroun's day (Holiday)
	*Friday 14	Memorial of President Hariri (Holiday)
	Monday 17	First day of classes for Spring 2024-2025
	Monday 17 - Friday 21	Drop & add period
	Friday 21	Late registration period for Spring 2024-2025
March 2025	Monday 3	Start first assessment task
	*Tuesday 25	Annunciation day (Holiday)
	Friday 28	Last day to remove incomplete grades for Fall 2024-2025
	*Monday 31	Eid el Fitr (Holiday)
April 2025	*Tuesday 1 – Wednesday 2	Eid el Fitr (Holiday)
	Thursday 3	Classes resume for Spring 2024-2025
	Thursday 10- Wednesday 16	Midterm exams period (Without class interruption)
	*Thursday 17 – Monday 21	Easter break for Latin & Orthodox (Holiday)
May 2025	*Friday 1	Labor Day (Holiday)
	*Sunday 25	Liberation & Resistance Day (Holiday)
	Friday 30	Last day to withdraw from a class with a grade of "W"
June 2025	Friday 6	Last day of classes for Spring 2024-2025
	Tuesday 10	Projects presentation
	* Friday 6 or Saturday 7 to Monday 9	Eid AL-Adha (Holiday)
	Wednesday 11 – Wednesday 18	Final exam period for all courses including English courses for Spring 2024-2025
	Friday 20	Deadline for submitting grades for Spring 2024-2025
Summer 2024-2025 Semester		
June 2025 Continuing	Monday 23	First day of classes for Summer 2024-2025
	*Friday 27	Hijri New Year (Holiday)
	Monday 23 – Thursday 26	Drop/Add and late registration period for Summer 2024-2025
July 2025	*Sunday 6 or Monday 7	Ashoura (Holiday)
	Monday 14- Thursday 17	Midterm exams period (Without class interruption)
	Friday 18	Last day to withdraw from a class with a grade of "W"
	Friday 25	Last day of classes for Summer 2024-2025
	Monday 28– Friday Aug.1	Final exam period for all courses including English courses for Summer 2024-2025
	Monday 4	Deadline for submitting grades for Summer 2024-2025
August 2025	*Friday 15	Assumption day of Mary (Holiday)

Financial Calendar
2024-2025

Fall 2024-2025 Semester		
September 2024	Monday 2 – Friday 6	1st payment period for Fall 2024-2025 (required to activate student registration)
	Monday 9	Application of late payment for continuing students
	Monday 30	Late registration period with penalty fee for continuing students
October 2024	Tuesday 1 – Monday 7	2nd payment period
	Tuesday 8	Application of penalty for late 2nd payments
November 2024	Friday 1 – Thursday 7	3rd payment period
	Friday 8	Application of penalty for late 3rd payments
December 2024	Monday 2 – Friday 6	4th payment period
	Monday 9	Application of penalty for late 4th payments
January 2025	Thursday 2 – Wednesday 8	5th payment period
	Friday 10	Application of penalty for late 5th payments

Spring 2024-2025 Semester		
February 2025	Monday 3 – Friday 7	1st payment period for Spring 2024-2025 (required to activate student registration)
	Tuesday 11	Application of late payment fee for continuing students
	Friday 21	Late registration period with penalty fee for Spring 2024-2025
March 2025	Monday 3 – Monday 10	2nd payment period
	Tuesday 11	Application of penalty for late 2nd payments
April 2025	Thursday 3 – Wednesday 9	3rd payment period
	Thursday 10	Application of penalty for late 3rd payments
May 2025	Monday 4 – Friday 8	4th payment deadline
	Monday 11	Application of penalty for late 4th payments
June 2025	Monday 2– Friday 6	5th payment period
	Tuesday 10	Application of penalty for late 5th payments
Summer 2024-2025 Semester		
June 2025	Thursday 19 – Friday 20	First payment and online registration period for Summer
July 2025	Tuesday 8 – Friday 10	Second payment deadline for Summer

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The University

The American University of Technology is licensed by the Lebanese Ministry of Education and Higher Education (Presidential decree 2143 year 2000, Presidential decree 846 year 2008). All the programs offered by the University are licensed as well.

University Mission

The mission of AUT is to provide an innovative, technology-rich, entrepreneurial, experiential University research and learning environment that produces civically active and market-ready graduates.

Philosophy of Education

Since traditional methods of education are no longer compatible with today's generation of students and their requirements for success in professional life, AUT has adopted a student-centered, active-learning education environment, which includes cooperative, team-based, problem-based and other innovative techniques of learning. This pedagogy serves one of the goals stated in the Mission of the University as it promotes such skills as data acquisition and analysis, critical and creative thinking, decision-making and teamwork. AUT graduates, who have studied under such methods of learning, will not only acquire knowledge but will also work in a way that ensures a continuous growth in knowledge and the ability to apply their skills, in order to gain successful entry to their professional world.

Academic Freedom

Academic freedom is the intellectual and creative foundation of the University. All department members and the administration of AUT maintain an atmosphere in which academics may engage in all forms of scholarly activities in freedom and form relevant clubs and societies. This commitment includes maintaining the freedom to address controversial issues throughout the University; including any classroom discussion wherein such issues pertain to the subject matter of the course.

The University does not attempt to orient or control the personal opinion, nor the public expression of that opinion, of any of its students or staff: the department members and administration of AUT feel a responsibility to protect the right of each member of the University Community to express his or her personal opinion, and also have an obligation to avoid any action which purports to commit the institution to a position on any issue without appropriate approval.

Non-Discrimination Policy

The interaction of different disciplines, perspectives, ideas, and people leads to vibrant progress in research and learning. The policy of non-discrimination preserves and builds diversity within the University, and AUT is committed to this policy. Equal consideration in employment and equal treatment with regard to the University's programs and activities are seen as vital. Specifically, the University prohibits discrimination on the basis of race, color, national origin, sex, marital status, religion, age or disability. Any person who believes that he or she has been discriminated against at the University may file a complaint directly to the Office of the President.

Distinctive Features of AUT

The University prepares students for new and exciting careers in the job market of the new millennium and keeps job placement and training among its highest priorities. AUT keeps a close watch over employment trends within Lebanon and the Arab World and its programs are often modified to adjust to the ever-changing requirements of the workplace.

AUT has integrated technology in the learning/teaching process; students make use of computers, internet and other technological innovations and social media in their studies and are able to function effectively in the new millennium business environment. New majors that accompany the needs of the job market are introduced into AUT programs when needed. Teaching at AUT is committed to delivering a quality level of education through a fusion of advanced courses of study with an expert staff of instructors. Theory is constantly combined with practical applications and analysis. Students are trained for teamwork, critical thinking and data search. These three skills are essential for functioning successfully in today's business world. The University is also dedicated to providing guidance and personal counselling to students.

AUT maintains an adequate student teacher ratio, allowing for a valuable learning environment; most classes have an average of 20 to 25 students and promote interactive discussions and oral communication skills. Students are asked to make regular presentations, thus opening the floor for constant debates through a variety of projects, case studies and practical presentations.

Cooperation

National Cooperation

Several agreements of cooperation tie AUT to national institutions and organizations that offer opportunities for staff to contribute expertise and also for students to spend meaningful internship periods.

- AUT has an Agreement of Cooperation with the **Lebanese University** that encourages joint research and exchange.
- **The Chamber of Commerce Industry and Agriculture** (CCIB) of Beirut and Mount Lebanon partners with AUT in many initiatives and projects related to the European Union Mediterranean area. Projects like YEP MED, i-Heritage, and Tec log have been implemented by AUT in cooperation with European universities.
- **The Chamber of Commerce and Industry for Tripoli and North Lebanon** has signed an MOU to collaborate on science and business projects and has provided access to its advanced food science lab for AUT students majoring in nutrition.
- **Beirut Port Authority** has signed an MOU with AUT to provide training and coursework related to port management to AUT students.
- **Tripoli Port Authority** has signed an MOU with AUT to provide internship opportunities to AUT students.
- **The Byblos Municipality** has collaborated with AUT on food safety and water quality in the city.
- **EBML** (the water authority for Beirut and Mount Lebanon) has signed an MOU with AUT Water Resources Department that includes involving students in the water sector projects and accepting AUT students as interns.

- **The North Water Authority** has signed an MOU with AUT Water Resources Department that includes involving students in the water sector projects and accepting AUT students as interns.
- **The Watan Al Insann** organization collaborates with AUT on providing financial aid to students and organizing educational events for its members.
- **The Lions Clubs** have adopted AUT as their main university partner for several activities including health days, diabetes awareness campaigns, non-violent communication and other humanitarian activities.
- **Municipalities** and local governments collaborate with AUT for diabetes awareness.
- **The Blat Municipality** has collaborated on a German project led by AUT on solid waste management.
- **The Amshit Municipality** has collaborated with AUT on water quality in the city.
- Memory of Understandings (MOUs) have been signed with the **Ministry of Energy and Water** and the **Ministry of Environment.**
- **The Youth Energy for Development association** has collaborated with AUT to provide young people training on career planning, involvement in municipal activities, and leadership.
- **The Embassy of Columbia in Beirut** has signed an MOU so AUT can provide health-related services to its staff and the Colombian community.
- AUT is a teaching center for **BOECKER** in food safety.

International Cooperation

AUT is proud to have established academic links with many other prestigious universities abroad; hence offering its students broader educational horizons.

- **University of London/London School of Economics (LSE), UK and** AUT have offered a BSc in Banking & Finance with degrees issued by the University of London.
- **University of London, LLM (masters in law), UK: AUT is a Recognized Teaching Center for the LLM Program** in association with the Beirut Bar Association.
- **State University of New York (SUNY) – Empire State University, USA** offers AUT students a double degree program in Business, Sciences and Arts.
- **University of Oklahoma, USA** and AUT have signed an MOU for exchange of students and faculty as well as education and scientific cooperation.
- **Istituto Europeo di Design (IED), Milan, Italy** offers academic exchange opportunities to students of design including graphic, interior and fashion and, also in marketing of luxury and fashion goods. It also exchanges faculty for short stays.
- **The Centre for Maritime Economics and Logistics** of **Erasmus University Rotterdam** offers academic faculty sharing in support of the undergraduate major in Transport Management, in association with Beirut-based **CCA-CGM**.
- **University of Aberdeen, Scotland** collaborates with AUT on the legal training in the oil and Gas sector.
- **Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt** is a major partner for the Transport and Logistics major offered by AUT.

- **Poornima University, Jaipur, Rajasthan, India:** has an exchange agreement and joint research collaboration with AUT.
- **University of Cagliari, Palermo, Italy** maintains collaboration in the areas of IT and Computer Science.
- **University of Novi Sad, Serbia** has an exchange agreement especially for Graphic Design students and faculty.
- **The International Association of Universities for the Third Age** (IAUTA-**AIUTA**) has included AUT among its members and its governing board. Programs for senior citizens are offered in the scope of this division.

Few other international cooperation are listed hereafter.

- **Babson College, Massachusetts, USA:** Collaboration on Entrepreneurship programs through live lectures and online work at both undergraduate and graduate levels. Babson College has been ranked number one in Entrepreneurship for many years and their expertise in the field has been very useful to AUT students.
- **Centro Universitario Dinamica das Cataratas (UDC) Brazil:** Exchange program and joint research with a university specialized in tourism and business. It is also a member of the International Association of Universities for the Third Age (AIUTA) of which AUT is a member.
- **New York College, Athens and Prague**: Students can also benefit from an exchange agreement with NewYork College in Athens, Thessaloniki (Greece) and Prague (Czech Republic).
- **Doc Nomads:** This trans-European Masters level documentary school accepts students from AUT for a unique experience. Their Master program takes place in three European capitals and students get a multi-cultural perspective on cinema rarely found elsewhere.
- **Cinema Da Mare:** AUT participates in this initiative by sending audio visual students to Italy each summer. This great summer camp gathers students of film from over 25 countries and students work together for one to three months and produce short movies every week. Each year 3 to 5 students from AUT get this unique opportunity.
- **Singidunum University, Belgrade:** This University was the first private institution to be formed under the new Serbian higher education law. Located in Belgrade, its faculties of Business, Informatics and Computer Science, Hospitality and Tourism and Technical Sciences welcome AUT students for short intensive courses or semester-long courses and send students and faculty in exchange to work on joint projects.
- **UNESCO Institute for Water Education**, Delft, the Netherlands. Past collaboration in joint conferences and activities has resulted in accepting AUT graduates in Water Resources Science to continue Master degree studies there. This is considered one of the best institutes for water education in the world.
- **Roma Film Academy, Italy**: joint projects in film and exchange of faculty and students.
- **Rome University of Fine Arts:** An agreement on student exchange and faculty collaboration on research allows both students and faculty mobility in all art fields taught at AUT.

Program Advisory Boards

To reinforce links with industry and involve industry professionals in the academic programs, AUT has formed advisory boards for several majors. These boards meet to discuss the adaptability of AUT majors to the requirements of the job markets and provide advice and career opportunities to AUT graduates as well as internships for current students.

Among the companies that joined the advisory boards are Indevco, Hallab, Prunelle, SONACO- Al Rabih, Aramex, The Net Global, Al Gezairi, Malia Group, The Diet Center, Addmind, Crepaway, NextIdeaz, Tannourine, and EMCO.

Campus Location

AUT has an extremely diverse student body. AUT students come from many different socio-economic classes and denominations within Lebanese society. The University serves the educational aspirations of Lebanese youth and foreign citizens on three different campuses that are strategically located in the areas of Byblos (Fidar-Halat), north Campus and Akkar.

Accordingly, and because of the rich diversity of its students and faculty, AUT is poised to expand its educational services to positively impact the educational welfare of all people of Lebanon and the region.

AUT's main campus is located on the Halat-Fidar Highway in the Byblos area overlooking the Mediterranean Sea. Its central location offers easy access to students coming from different parts of Lebanon. The North Campus serves the northern district of Lebanon and offers almost all the facilities available on the main campus. North Campus moved to it new premises in Dahr El Ain (Ras Maska) on the La Couline Road, Kasr Arida street, just 12 km away from Tripoli. AUT recently opened a campus in Halba-Akkar region.

Campus Life and Services

Computer Facilities and Services

Students have free access to state-of-the-art computer laboratories with Internet and e-mail access. In addition, students have access to a web-based portal (Student Information System – SIS[1]) that provides them with access to many online documents, services, utilities and information systems. Support is provided by networked PCs and laser printers with associated multimedia technology. The IT office provides computer consulting and also provides training in the form of seminars or short courses. Short courses dealing with more common computing topics are offered each academic semester. Seminars for special topics are developed on an 'as-needed' basis, or when specific interest is indicated.

Writing Assistance Center

The purpose of the Center is to assist students in achieving a better standard of English proficiency by continuing to improve their English language skills, even when they no longer have English classes. The Center is located in the English Department on both

[1] Power Campus

campuses. Department members will be available in rotation to deal with any requests, and appointments can be made if the topic requires any individual consideration.

The Writing Assistance Center provides guidance in using outlines, paragraphs and topic sentences, thesis statements, avoiding plagiarism, citing sources, writing essays, reports, book reviews and research papers. This department is open to all students and is not limited to students within English classes.

Student Lounge

Located in the Garden – the Crystal Room – in the Halat campus; the lounge is the place for students to enjoy a game of chess or pool, or to just chat in between classes. Student lounges are also available in the other Campus locations.

Parking Facilities

AUT offers parking spaces for students and all employees. The student parking lot in all campuses can be used by students enrolled during a given semester. A car sticker has to be displayed on the front or rear windshield, in order to allow parking. Students may be asked for further proof of enrollment, such as their student ID.

Academic Support Services

All department members are committed to enabling students to complete their academic programs and play an important role in helping students devise and implement methods that will enable them to be academically successful. Valuing education, providing motivation, in order to become better educated and providing access to information and assistance when problems arise, are ways in which faculty and staff can assist the students.

Accordingly, the University has established a Tutoring Program, which aims to provide academic support in two key subjects: English and Mathematics. Tutoring sessions, by instructors or peers, are offered to students free of charge on a one-to-one basis or in small group settings. The Tutoring Program is coordinated by the Student Success Office, in collaboration with the English and Mathematics Departments.

Services for Students with Disabilities

Within its financial and physical means, AUT tries to ensure that most academic programs and essential student activities are accessible to individuals with disabilities.

Food Services

A cafeteria is located on each campus. This serves meals and snacks to students, staff and guests. Meals are served five days a week; Monday – Friday from 7:30 am to 5:00 pm. (except on holidays).

Bookstore and Copy Center

The shop offers the following services: photocopy, binding, document, brochure and flier printing and stationary.

Petitions

Petitions are submitted by students either to the Registrar's Office or to the relevant faculty or unit.

Petitions are processed and decisions are normally made within three working days.

Health Services

All students are covered by an accident insurance policy. The coverage is for 24 hours a day both on and off campus. As far as general health care is concerned, Lebanese students are covered by the National Social Security Fund (NSSF) either through their parents or through the University. Non-Lebanese students can, if they wish, obtain health care coverage through AUT from a commercial insurance company.

First Aid Services

First aid services are available at the University. In case of need, check with the Office of Student Affairs.

International Students Program (ISP)

The program aims at facilitating the adaption of these students to both Lebanon and the AUT community through discussion groups, gatherings and trips. An annual dinner is held, which is a major activity on campus.

Public Phone Services

In agreement with OGERO, public telephones have been installed on campus at the entrance of the Agora building in Halat and in close proximity to the other campuses; for the convenience of the University Community.

Lost and Found

Students who lose an object should report it to the Office of Student Affairs. Those who find a lost object should bring it to the same office.

Smoking

Smoking is not allowed for all members of the University community, students, faculty and staff in classrooms, laboratories, studios, lavatories, corridors, public places and private offices.

Care of Property

Students are required to take good care of all property of the University. Any damage caused will be charged against violators.

Security on Campus

The University maintains a safety program designed to protect its students, staff and property within its premises. For this purpose, cameras are installed to record and monitor all main areas to ensure a safe work and study environment. AUT controls access to its campus through security guards who are on duty 24 hours a day.

The University has installed fire extinguishers, and has developed security and safety awareness among the AUT community. Access to campus after office hours and/or teaching hours is permitted only for faculty members and staff. Students may enter the campus if prior arrangement has been made by a chairperson or the Director of Student Affairs with the Director of Physical Plant. In all cases the security agents keep a logbook of names, dates and hours of entry and exit.

Library

The Library's collection is rapidly expanding and is comprised of materials which support both the curriculum and the general information needs of the University. The majority of the library's holdings are in English. There are, however, materials available in Arabic. The library is student-oriented and provides quiet study areas and access to computers. By using the library electronic resources, students and faculty have access to a number of on-line periodical indexes, full text journals and magazines. The library coordinates with all parts of the University, provide an efficient complement of information for all taught classes.

The Library holds over 1,500 books, organized and divided into the following subjects: Computer, News Media Journalism, Psychology, Ethics, Religion, Sociology, Political Science, Chemistry & Allied Sciences, Life Sciences and Biology, Medical Sciences, Engineering & Allied Operations, Hospitality Management, Management & Auxiliary Services, Chemical Engineering, Manufacture for Specific Uses, The Arts: Fine And Decorative Arts, Architecture, Decorative Art, Graphic Arts, Photography and Photographers, Recreational & Performing Arts, Literature & Rhetoric, Literature & Fiction, Geography and History.

In addition to the books, students also have access to a wide scope of periodicals, magazines, newspapers etc. The library is also a host to a large number of books that are a source of entertainment. Fiction, which includes various genres such as comedy, thrillers, suspense and horror or drama, is tremendously popular with readers of various age groups.

Borrowing Service

The implemented system allows students to borrow two books at the same time for up to 14 days, renewable for another 14 days. There is a penalty of US $ 2 for each delay day. A valid AUT identification card is required for check-out all materials.

This procedure is not allowed or implemented for the Periodicals & Newspapers; the newspapers cannot be checked out because they are kept as references and anyone coming into the library must have equal access to them.

Rules within the Library

- To maintain a serein and peaceful environment quiet is required.
- Cellular phone use is prohibited.
- No food or drink is allowed.
- The library is a strictly non-smoking area.
- The newspapers should be put back into their proper order after reading.
- All borrowed items, including course reserves, should be returned to the circulation desk for proper check-in.

Publications

- *Idea Exchanger: from and to AUT Department members is* a semester publication of AUT's *Center for Distinction in Teaching and Learning* (CDTL). As the name indicates, it is a forum within which all department members at AUT, and more recently at other universities in Lebanon and abroad, particularly in the Arab World, can exchange teaching ideas, insights, and innovations. In addition to classroom ideas, this publication features reviews of the latest academic articles in the field of teaching and learning in higher education.
- ***NEWS*** is AUT's monthly student newspaper. All content is produced by AUT students, and the newspaper covers events on campus, as well as the off-campus lives of students. News also includes profiles of students and department members, as well as news and feature stories on a variety of topics from outside the University.
- The History of the Maronite Patriarchs.

Students and Alumni Achievements

Below are a few recent achievements of AUT students and Alumni:

- AUT's Alain Serhal was the winner of the Telecom Regulatory Authority Best Logo Competition, 2004.
- AUT's Claude Kairouz won the Anti-Drug poster competition, organized by the Internal Security Forces in June 2006.
- AUT's Romeo Issa and Eddie Touma won the national and regional inter-university competition for Microsoft Imagine 2006 Cup and went on to the finals in New Delhi.
- Fares Beainy obtained his PhD in Electrical and Computer Engineering from Oklahoma University and is now Research Engineer Emerging Technologies – Advanced Engineering at Volvo Construction Equipment, Shippensburg, Pennsylvania.
- AUT's alumnus Mohammad Kabbani was named IT Manager of the Year 2004 in Saudi Arabia. He is now Director of IT, Quality and safety at Saudi FAL Ltd.
- AUT's alumnus William Mallouk finished the implementation of a 3D game engine that, among other things, is being used to teach game development at a university in Brazil.
- AUT's Graphic Design student Rana Bark won the International Poster Competition for the Montreal Protocol's 20th anniversary; Student Layal Attieh also won the National Competition.
- AUT's alumnus in Hotel Management Rawad Khalaf won the national competition entitled "Coffee in Good Spirit" (best coffee-based beverage competition) in March 2006 and ranked 2nd in the world in May 2006 in Switzerland.
- AUT's alumnus Pierre Akiki is now Cost Controller for all the Habtoor Group.
- AUT's Communication student Tania Karkafy won the Gibran Tueni Award 2008.
- One of our SUNY students, Mrs. Hikmat Kabbara was selected by Empire State College of State University of New York for a very special Student Excellence award, presented by the Chancellor of the State University of New York in 2009.
- Edmond Tannous and Joanne Constantine, Graphic Design and Audio-Visual majors, were shortlisted among the 350 competitors from Arab Universities,

ranked in the top ten finalists with the MBC2 two-minute movie competition in January 2009.

- Eliane Nohra, a graphic design student at AUT, entered a best-poster competition, dealing with the theme of tolerance, which was organized by an NGO, "Youth for Tolerance" that was open to all universities in Lebanon in February 2009. AUT selected 5 student works in addition to Eliane's and the results were announced on Future TV's Zaven show. The poster by Eliane Nohra won first place. Posters by Anne-Marie Semaan and Antoine Kassis ranked among the top 5 and were also shown on TV.
- AUT student Ruba Hashem won the Gibran Tueni Award for Journalism in 2009 and Ghiwa Aoun won the 2011 award.
- The American Lebanese Language Center (referenced as The American University of Technology in the Cisco Networking Academy Program) earned the "Best Local Academy Award for 2009-2010" from CISCO.
- Mansour Fakhry and Christian Daou, won the Bronze Medal at the HORECA 2010 Junior Chef Competition.
- Wissam Maalouly was awarded a special certificate from Boecker – the region's largest Food Safety
- Services – in best hygiene standards at the HORECA 2010 Cold Sandwich competition.
- Elio Chayeb, student of Audio-Visual Arts had his short film, Oummi, rank 2nd in the 2011 10D10M International Film Competition.
- Patrick Honein, alumnus, designed the film for the Brand Protection campaign that received a silver award at Cannes Lions d'Or 2011.
- Rana El Chaer and Elie Sfeir, Hotel Management students at AUT, won first prize at the Best Sandwich competition organized by HORECA 2015. They were awarded gold medals by Boecker and the French Culinary Arts Association for food safety.
- AUT implemented the Phoenix project with the Municipality of Byblos Jbeil during the summer of 2015. Over 90 restaurants were checked regularly for food safety and water quality by AUT students.
- Many AUT alumni are now senior staff in the hospitality industry in the Arab countries. Charles Saliba is GM of Crowne Plaza in Oman, Mazen Dreik is Director of Revenue Management at Kempinski Beirut. Robert Salameh was Event and Banqueting Director at Cana Lilli in Las Vegas, NV.
- Sandra Boutros 2nd prize in the AUK Film Festival in summer 2015. For the second consecutive year, AUT scored high in the Al Kafaat Students Film Festival. Pamela Khadra ranked first with Naseem, the story of a female goatherd who is taking her favorite goat to the butcher. Pamela won her award during the ceremony held at AKU on September 23, 2016. All universities that offer an audio visual program participated in this festival and there were over 40 short films entered.
- In July 2017, Rafi Tannous, Charbel Chouchany and Pamila Khadra participated in the Cinema DaMare Festival and once again won 3 out of 8 prizes in 2 weeks. Week 1: Best Cinematography for Rafi Tannous Week 2: Best film for Charbel Chouchany and best cinematography for Pamela Khadra. They were competing with students and young filmmakers from all corners of the world.
- AUT basketball team won 3rd place in the FSUL Championship in 2019.

- Charbel Frem and Grace Khalil received distinction in the Boecker Food Safety course from the Royal Society of Food Safety in the UK in May 2020.
- Computer Science alumnus Nazih Youssef who made a career in logistics and transport is now at the head of the International Bahri – Bollore Transport and Logistics Company based in Riyadh.
- In July 2021, our 1st place winner Jimmy Rahi.
- In September 2021, alumni Jalila Sakr was promoted to Senior Research Analyst for Ipsos MENA.
- Joy Abdo, AUT Alumna, officially certified as a NewGen Peacebuilder in Lebanon.
- Students of Journalism, Mirelle Abalan, Tony Ghattas, and Zeina Ayoub, receive high honorary praise from news anchor and reporter Yazbeck Wehbe in November 2022.
- Graphic Design students Yara Nasr (first place), Mariane Mahfouz (first place), Pia Estephan (fourth place), and Clara Nassar (fifth place) win and represent AUT during Fabriano's 2022 competition.
- Marc Katerji defeats competitors in the Lebanese 2023 Taekwondo Seniors championship.
- AUT alumni, Josette Khalil, promoted to Art Director at CFI Financial Group Holding Limited.
- AUT alumni, Anthony Najm, appointed as F&B Manager for Crowne Plaza Resort in Salalah, Oman.

Academic System and Programs

The American University of Technology follows the North American credit system of higher education, wherein English is the language of instruction. Command of the English language, both oral and written, is essential to every student's success in his/her study program. The academic year consists of two semesters of fifteen weeks each and six-weeks summer sessions.

Academic Structure

The academic structure of the University consists of three faculties:

- The Faculty of Arts and Humanities
- The Faculty of Business Administration
- The Faculty of Applied Sciences & Technology

Faculty of Arts and Humanities

The Faculty of Arts and Humanities is the home of artistic creativity and communication excellence. Students learn to think critically, express themselves creatively, and communicate effectively.

It offers Bachelor of Arts (BA) degrees in:

- Graphic Design 102 credits
- Graphic Design with concentration in Web Design
- Interior Design 105 credits
- English Language and Literature 96 credits
- Translation 102 credits

It also offers Bachelor of Communication (BC) degrees in:

- Audio Visual Arts 110 credits
- Journalism 101 credits
- Public Relations 99 credits

Faculty of Business Administration

The Faculty of Business Administration aims to be recognized as the leading provider of market-driven, action-oriented, technology-based business learning in Lebanon and the region. Its undergraduate and graduate programs bridge the gap between academia and the business community through the uniqueness and responsiveness of its curricula and faculty to globalization, internationalization and the information revolution.

The Faculty is committed to developing value-centered business leaders through learning experience that is experiential, result-oriented, entrepreneurial in spirit, ethical in focus and global in orientation. This is the culture of AUT's Business students and faculty.

The Faculty of Business Administration offers Bachelor of Business Administration (BBA) degrees in:

- Accounting 99 credits
- Finance 99 credits
- Hospitality Management 100 credits
- Management 99 credits
- Management Information Systems 99 credits
- Marketing and Advertising 99 credits
- Transport Management and Logistics 99 credits

The Faculty also offers Master of Business Administration (MBA) degrees with concentrations in:

- Accounting 39 credits
- Finance 39 credits
- Hospitality & Tourism Management 39 credits
- Management 39 credits
- Management Information Systems 39 credits
- Marketing 39 credits

The MBA Program offers multi-tracks for candidates by widening the choice to meet developing and changing market demand and technology integration

Faculty of Applied Sciences & Technology

One of the newest and fastest developing areas of human knowledge, computer science and related disciplines deals with the design of computers, and with the investigation of their limitations, as well as the analysis, design and development of software systems that these machines execute. Today, software is being used to automate almost every aspect of our daily life. Therefore, skilled computer scientists, computer and software engineers, as well as Information Technology (IT) specialists are needed in all industries and organizations.

AUT programs, which follow the general guidelines of the Association for Computing Machinery (ACM), are designed to cover the theoretical foundations, while ensuring that students receive a good dose of practical and hands-on experience in designing and building large industrial-strength systems; through academic and faculty- directed research projects.

A challenging area of the sciences that will be much needed in future decades is the study of Water Resources. AUT is currently the only university in Lebanon that offers a Bachelor degree in this field of high potential in the job market. Similarly, as everyone is becoming more environmentally aware, our Environmental Health program provides a globalization approach to harness this interest and develop it into a degree program. Our Nutrition Program focuses on healthy food nourishment and addresses global concerns.

The Faculty of Applied Sciences & Technology offers the degree of Bachelor of Science (BS) in:

- Computer Science 99 credits
- Computer & Communication Sciences 110 credits
- Information Technology 99 credits
- Nutrition and Dietetics 99 credits
- Water Resources and Geo-Environmental Sciences 99 credits

The Faculty of Applied Sciences & Technology offers the degree of Master of Science (MS) in:

- Computer Science 39 credits

The Master of Science in:

- Information Technology 39 credits

is ready to be offered when the decree is received from the Ministry of Education and Higher Education.

Admissions

The admission rules and procedures at AUT are structured to be clear, efficient, and supportive, ensuring that students are well-prepared to embark on their academic journey. From application submission to placement exams, acceptance, and orientation, each step equips students with the knowledge and resources needed for a smooth transition into university life.

AUT is committed to providing an educational experience that fosters critical thinking, innovation, and academic excellence.

All applications for admission are considered with no discrimination on the basis of race, color, gender, handicap, religion, age or national origin.

Admissions to Undergraduate Programs

Criteria

- Admission criteria for applicants having followed general education:

- Students applying to the AUT undergraduate programs should hold the Lebanese Baccalaureate Part II or its equivalent as specified by the Lebanese regulations. **Holders of the Lebanese Baccalaureate Part II** are qualified for consideration for admission to sophomore class level.
- **Foreign secondary school certificates** are awarded either by ministries of education or by private schools and institutions. Certificates awarded by ministries of education are recognized by AUT. However, some countries award two levels of secondary school certificates. AUT recognizes the higher certificate.

- Admission by field of study for applicants having followed general education:

- Secondary school programs are divided into a variety of branches depending on the field of study, such as humanities, general sciences, social sciences and economics, life sciences, technical and vocational. While some constraints may apply, in general, any academic secondary certificate admits to any major offered by AUT.
- Holders of a Baccalaureate Part II in Humanities, Social Sciences and/or Economics, and wishing to join a Department of Science, should take additional courses in science and mathematics in preparation for a scientific career. **Placement exams** might be required. The department may refuse admission into science majors if it deems the applicant's level not sufficient.

- Admission Criteria for Applicants having Followed Technical and Vocational Education – BT3 and TS:

- Technical and Vocational secondary school certificates admit to a major that corresponds to the field of study of the technical or vocational secondary school program issuing the certificate. Applicants may refer to the official list issued yearly by the Ministry of Education and Higher Education specifying the majors accessible from technical studies. The list must be available at the Office of Admission at AUT. [e.g. *a holder of a technical secondary school certificate in business may apply to the Department of Business Administration*]

- **Holders of Technical Baccalaureate (BT3)** are required to take 6 to 12 credits remedial courses in addition to the graduation requirements. The list of remedial courses is issued by the Ministry of Education and Higher Education and is made available at the Office of Admission.
- **Holders of the Technical Studies Diploma (TS)** are required to have a minimum average of 12/20 to be admitted in a similar field at the University and can transfer up to 42 credits.
    - The transfer of credits from Technical Education (TS) to university education is based on the grades obtained in the official Lebanese certificate and the curricula studied by the student in the technical school.
    - The student must complete at least 50% of the required hours and credits needed to obtain a university degree.

Admission Criteria for Applicants Holding other Certificates such as GCE, GCSE, IGCSE, or IB

AUT recognizes the certificates if recognized by the Ministry of Education and Higher Education as equivalent to the official secondary certificate. This is the case under the following conditions:

- The school awarding the certificate is recognized by the Ministry of Education and Higher Education of Lebanon or by the host country.
- The student has successfully completed the twelfth grade as of elementary Grade I.
- The student has passed in six subjects: two at the higher level (two A levels or four AS levels) and four at the ordinary or subsidiary level (four O levels).
- English language and mathematics should be included within the courses required for admission to the American University of Technology.

Freshman Program

- Lebanese students, who hold a high school diploma, received either by studying abroad or in Lebanon by permission of the Lebanese Ministry of Education and Higher Education, may be considered for admission to the Freshman Class at AUT.
- To be admitted as a freshman, a student must present:
    - A Baccalaureate exemption from the Lebanese Ministry of Education and Higher Education,
    - The scores of the SAT exam.
- Upon completion of the Freshman Class a student may apply for equivalency from the Ministry of education and higher education if he has:
    - Successfully completed the 30-credit Freshman program,
    - Obtained a total score higher or equal to 870 on SAT for Freshman Arts or higher or equal to 950 for Freshman Science.

Transfer Students

- AUT approves the admission of transfer applicants. Transfer applicants must satisfy the following conditions:
    - They are transferring from technical school (TS) or recognized institutions of higher education (other university).
    - Before being admitted to the institution from which they are transferring, they have met the requirements for admission to AUT.
    - They satisfy the English language proficiency requirement.
- Transfer applicants may be required to take placement tests in Mathematics or French. They will be placed in the appropriate level of English (and, if needed, Mathematics or French) based either on the Placement Examination or on their academic records.
- Transfer credits are granted to those courses in which the student obtained a minimum grade of "C" on the condition that the period of time between the last semester completed and the admission into AUT does not exceed seven years.
- Transfer students can transfer up to 45% of their AUT's degree credit requirements from other accredited institutions.

Prerequisite Courses

- The prerequisite courses by major for applicants holding a Lebanese Baccalaureate II or equivalent are provided in appendix A.
- The prerequisite courses by major for applicants holding a Lebanese BT3 are provided in appendix B.

Procedures

The procedure for admission to undergraduate programs at AUT is designed to ensure a smooth transition for prospective students. Before applying, applicants must review the admission requirements, submission deadlines, and placement test policies. The procedure includes nine steps that are described in the following.

STEP 1 – Check Admission Requirements and Submission Details

Documents to submit

Before applying, prospective students must prepare the required documents (a list can be found at the University website[2]).

Applicants to the **Freshman Program** should submit the following documents:

- A completed application for admission
- Exemption from Arabic and authorization to join a foreign program approved by the Ministry of Education and Higher Education
- High school grades
- A document proving successful completion of grade 12
- An official copy of the high school diploma
- SAT score report
- One passport-size photo
- A copy of the applicant's ID or personal civil extract or valid passport

[2] https://www.aut.edu/admissions/

- A copy of the applicant's family civil extract
- A non-refundable application fee
- A National Social Security Fund (NSSF) certificate if available

Applicants to **Sophomore Year** should submit the following documents:

- A completed application for admission
- A certified copy of the secondary school certificate (Lebanese Baccalaureate of its equivalent)
- An official copy of the school grades for the last three secondary classes
- One passport-size photo
- A copy of the applicant's ID or personal civil extract or valid passport
- A copy of the applicant's family civil extract
- A non-refundable application fee
- A National Social Security Fund (NSSF) certificate if available

Transfer Applicants should submit the following documents:

- A completed application for admission
- Official transcripts of grades from the Technical School along with the catalogue of the institution from which they are transferring or a certified description of courses for which they seek transfer
- Official Lebanese certificate (endorsed by the Ministry of Education and Higher Education)
- One passport-size photo
- A copy of the applicant's ID or personal civil extract or valid passport
- A copy of the applicant's family civil extract
- A non-refundable application fee
- A National Social Security Fund (NSSF) certificate if available

Notes about Submitted Documents

- Submitted university transcripts, courses descriptions and grades must be stamped and sealed.
- All documents submitted for admission are confidential.
- All documents submitted for admission become the property of the American University of Technology and cannot be returned to the applicant.
- All documents submitted for admission will be archived within the Registrar Office.
- Incomplete applications will not be processed for admission.

TS Transfer review procedure

The review procedure covers two elements:

- Official Lebanese Certificate:
  The official Lebanese certificate (for the Technical Superior TS) is the primary standard for course equivalence. The grades obtained in this certificate are assessed to determine the student's academic level.

- Curriculum Review:
  The university reviews the curriculum studied by the student at the technical school. If the curriculum meets the university's requirements, some courses may be equated to complete the total credit hours allowed for equivalence.
- Students holding a technical certificate (TS) and requesting to enroll in university specializations must complete supplementary courses specified by the Ministry of Education and Higher Education

Submission periods

Two periods are distinguished for submitting applications:

- Early admission:
  Students applying under this plan must submit their application forms before mid-May of the year preceding admission. This plan allows applicants to secure acceptance in the major of their choice early enough and will receive final acceptance once they satisfy the other admission requirements at a later stage. Applicants under this plan are exempted from paying the application fee.
- Regular admission:
  The deadlines for submitting applications for the Fall and Spring semesters are the end of July and end of December, respectively. For the summer semester, the 15th of June is the deadline.

This information is provided on the website of the University[3].

Validity of admission

- Admission is valid for the whole academic year for which a student applies.
- If an applicant is admitted and does not register but intends to join the University the following semester, he/she should inform the University one month before the beginning of the next semester. Otherwise, admission is lost.
- If the student does not register within the academic year admitted for, then the acceptance becomes invalid, and a new application must be submitted.

STEP 2 – Placement Examinations

Depending on the faculty, applicants need to sit for placement examinations as follows:

- Faculty of Arts and Humanities:
  - Placement test in English
  - Placement test in French for translation major
- Faculty of Business Administration:
  - Placement tests in English and Mathematics
  - Technical Baccalaureate applicants take just English placement test
- Faculty of Applied Science and Technology:
  - Placement test in English
  - Placement test in Mathematics for Computer Science and Information Technology majors

[3] https://www.aut.edu/admissions/

English Placement Examination

- The English Placement Test (EPT) at AUT is taken by all new students.
- Transfer students who come from a French section should sit for the EPT.
- The English Department reserves the right to ask any transfer student whose grades are below 70 or whose completed courses do not fit into the English program at AUT to sit for the EPT.
- The EPT is graded out of 75 points and follows the CEFR assessment.
- The EPT will place students in one of the following levels:
  - Level 1: Beginner — Score between 14 and 40
    - to enroll in ENG010/011 Intensive One
  - Level 2: — Score between 41 and 60
    - To enroll in ENG020/022 Intensive two
  - Level 3: — Score between 61 and 64
    - Require an Oral Assessment for verification
  - Level 4: — Score 65 and above
    - To enroll in ENG200 Writing Skills

- Standardized tests are also accepted. To exempt applicants from intensive English courses the following minimum scores are required:
  - IBT (TOEFL) 72
  - The English section of SAT 550
  - IELTS 6.0 (with a minimum of 5.5 on each section)

Mathematics for Business Placement Examination

- The Mathematics for Business Placement Test is required from some applicants to the Faculty of Business Administration.
- It places the students in one of the following courses:
  - MAT010 College Algebra
  - MAT221 Calculus for Business

Mathematics for Science Placement Examination

- The Mathematics for Science Placement Test is required from some applicants to the Faculty of Applied Sciences and Technology.
- It places the students in one of the following courses:
  - MAT010 College Algebra
  - MAT011 Calculus I
  - MAT012 Calculus II
  - MAT203 Calculus III

STEP 3 – Choice of a Major and Submission of an Application

- The prospective student selects the desired major from the list of available programs at AUT[4].
- The student applies using one of the two methods:

[4] https://www.aut.edu/aut-academics/

- **Online**: through the AUT's official admissions portal: https://www.aut.edu/apply/
- **On Campus**: By filling out a paper-based application demand at the Admissions Office.

STEP 4 – Admissions Office Contact and Confirmation

- The Admissions Office reviews the application and initiates a phone call to confirm the following details[5]:
  - The applicant's personal information
  - The chosen major
  - The date of any required entrance or placement exam (if applicable)
  - Any missing documents needed to complete the application
  - Whether any additional information is required

STEP 5 – Student ID Generation

- The Admissions Office generates a unique student ID number for the applicant in the AUT SIS[6] system.
- The student ID must correspond to the specific semester the student is applying for.
- The student ID is unique and permits to identify the student in all the University activities such as registration, exams, …

STEP 6 – Official Email Notification

- The student receives a welcome email that includes:
  - The student ID number
  - Confirmation of the selected major
  - Information about the placement/entrance exam (if applicable), including the date, time, and topics and format of the exam
  - The admissions requirements as attachment, outlining the necessary documents and next steps to complete the application

STEP 7 – Placement Test and Results, and English Preparation Program

- This step applies only when a placement examination is required.
- The student sits for the requested examination as planned.
- The student receives the placement test results via SMS within 48 working hours after taking the test.
- The Admissions Office, in collaboration with the English Department, organizes a free English preparation program in August for a duration of four weeks. This program is designed to support students placed in Intensive I and II.
- After completing the program, students can retake the English placement test for a chance to improve their placement level. A student has the right to take the placement test up to three times.

[5] After checking with appropriate faculty if need be
[6] Student Information System

STEP 8 – Registration Period

- During the registration period, students must complete the following to finalize their admission and enrollment.
- The student's file is reviewed to ensure all required documents have been submitted and verified.
- The student pays the registration and technology fees to proceed with enrollment.
  - Refund Policy: If a student fails the official Baccalaureate exam or the BT3 official exam, the registration and technology fee will be refunded
- The student receives an official acceptance letter signed by the Dean of Admission.
- The acceptance letter includes:
  - A reference serial number
  - The date of issuance
  - The student ID number
  - The student's full name
  - The chosen faculty and major
  - The semester and academic year
  - The English placement level
  - The list of prerequisites if applicable
  - An email address, username, and first password for university systems and a QR code for accessing Moodle
  - The name of the assigned academic advisor
- At this stage the student is officially registered and can begin her/his academic journey at AUT.

STEP 9 – Student Orientation

- The Center for Student Success and the Recruitment Unit organize on-going orientation sessions for students applying to enroll at AUT. Details concerning the majors offered, the credit system, the registration process, the drop and add rules etc. are explained to students using a variety of audio-visual aids.
- The orientations sessions are conducted several times, if the demand arises, prior to the spring semester.
- A second orientation is provided to all new students at the beginning of each semester. This second orientation is intended to introduce the new students to the University's organization, policies and procedures and to the faculty members as well as the specifics of each major offered by the faculty. The date of the New Students Orientation is listed in the Academic Calendar.

Admissions Graduate Programs

Criteria

A graduate student should hold a bachelor's degree from an accredited program.

A minimum grade point average (GPA) of 2.7 (based on a 4.0 scale) is required. Applicants with a GPA of less than 2.7 may be given by the dean a conditional admission (requesting the student to raise her/his GPA).

Students coming from institutions where the language of instruction is not English may be required to take the International TOEFL and get a minimum score of 550. Internationally recognized English tests other than TOEFL may be acceptable.

Other than regular admission, students may be admitted on probation or conditionally.

Graduate Programs

Master of Business Administration

- The MBA Program is an innovative, market-driven program, designed to develop leaders who will create value for themselves and their organizations in a time of relentless change. It is a lock step.
- The MBA Program is 39 credit hours.
- The MBA Program is fully accredited by the Ministry of Education and Higher Education

Master of Science

- The Faculty of Applied Sciences and Technology offers a Master of Science in Computer Science and Information Technology.
- The Master of Science in Computer Science and Information Technology is 39 credit hours
- The Master of Science in Computer Science and Information Technology is accredited by the Ministry of Education and Higher Education

Procedures

Documents to submit

- An applicant should submit the following documents:
  - A completed application for admission
  - A recognized degree of Higher Education with official equivalence by the Ministry of Education and Higher Education
  - An official transcript
  - Two letters of recommendation
  - An updated Curriculum Vitae
  - One passport-size photo
  - A copy of the applicant's ID or personal civil extract or valid passport
  - A copy of the applicant's family civil extract
  - A non-refundable application fee
  - A National Social Security Fund (NSSF) certificate if available

Conditional students

- To satisfy deficiencies, the conditional student may be required to take special courses and receive a grade of "B" or better in those courses. The conditional courses will be specified in the acceptance letter from the Office of Admissions.

Other Matters Related to Admission

Scholarship and financial aid information

- AUT offers significant scholarships and financial aid support divided on different categories:
  - Financial aid
  - Merit (for returning students)
  - Sibling
  - Sport
- New students once admitted may present a request for financial aid.
- At the beginning of the academic year a financial aid committee is formed to state on the demands for financial aid.
- The students are informed about the granted financial support as soon as the decision is made.

Support for international students

- Foreign students should secure an entry visa to Lebanon from the Lebanese embassy or consulate from their home country.
- The Admission Office provides guidance for international applicants regarding visa requirements.
- Foreign students must have passports valid for a period not less than 13 months.

National Social Security Fund (NSSF)

- Membership in the NSSF is mandatory by law for all Lebanese students excluding students who are older than 30 years old and non-Lebanese students.
- Students are required to bring the following items when registering for the NSSF:
  - An appropriately filled social security application form. Copies of this form will be available for distribution at the time of registration to students who have not completed it
  - A photocopy of the Lebanese Identity Card
  - NSSF number if already registered
  - The NSSF number of the parent if insured with the NSSF through father or mother
  - Family civil extract is required for married students only

Registration

Rules

Registration for classes in absentia or by way of proxy is not permitted.

New students are urged to make sure that all documents required for finalizing their admission, particularly those indicated in the letter of admission, are submitted to the Office of Admissions before registration begins.

Advising

The advising service is designed to develop mutual confidence between advisor and student. Each new student is assigned a faculty advisor whose role is not restricted to routine scheduling of courses but encompasses a wide range of student concerns and services. This may include helping students define alternative courses of action based on their capabilities, interests and goals, and to readjust their goals when they are unrealistic.

Categories of Students and Number of Credits

Full-time students

- The average load of a full-time undergraduate student is 15 credits per semester. With the approval of the advisor, and in special cases, a student may be allowed to register for more than 15 credits.
- The minimum load of a full-time student is 12 credits.
- The full-time load for graduate students is 9 credits per semester.

Part-time students

The category of part- time student is restricted to the following types of students:

- AUT staff members who are working for a degree.
- Those who need less than twelve credits to complete work for an undergraduate degree.

To receive an enrollment certificate, the student must be registered for at least 12 credits during the Fall or Spring semesters.

The maximum load for registration for an undergraduate student during each of the Fall and Spring semesters is 18 credits, and 9 credits in a Summer session.

Early Registration

The University offers returning students the facility to pre-register online, using the AUT's portal, in order to gain access to a wider selection of classes before sections close. Students who register online must pay before the deadline of making the first payment of the semester. Pre-registration dates and first payment deadline are listed in the Academic Calendar.

Late Registration

Students who for any reason fail to register during the scheduled period for registration can still be registered duringthe late registration period (see Academic Calendar) but will be charged an extra fee.

Registration for Tutorial Courses

Tutorial courses, when approved by the Dean, are offered to those students who:

- for legitimate reasons were unable to take these courses when offered,
- have earned at least 60 credits at AUT, and
- Will be graduating at the end of the semester.

Procedures

The following steps should be followed in registration for "new" and "current" students.

STEP 1 – Letter of acceptance

- New and transferring students shall obtain the "letter of acceptance" from the Admission Office.
- Returning students may skip this step.

STEP 2 – Clearance

- All students should pass by the Business Office to pay their registration fees, in this case the Business Office issues a clearance to the student.
  - Show the "letter of acceptance" to the Business Office (new and transferring students only).
- The student pays the amount of the registration fees shown on the slip at the designated bank and asks the bank clerk to stamp the payment slip. The Business Office will remove the "Finance Hold" from the student record by following up the on-line banking payment.
  - **Note:** Due to the financial situation of the banking sector, students are advised to pay the registration fees at the business office.

STEP 3 – Advising

- Advisors are available for individual consultation during office hours and by appointment.
- The student carries the clearance to the advisor. The advisor's name as well as the place and dates for advising are indicated in the Registration Schedule. New students should present their letters of admission, identity card or passport to their respective advisors at the time of consultation.
- Before finalizing the schedule, the student and the advisor discuss the proposed schedule prepared by the student in relation to her/his academic needs and interest and plan the future selection of courses.

STEP 4 – Registration

- Student pass by the Registrar Office for finalising the registration

STEP 5 – Payment of fees

With the schedule card signed by the advisor, and on the date indicated in the registration guide, the student proceeds to the Business Office to finalize payment of fees. Registration is considered complete after going through this step.

Other Matters Related to Registration

AUT ID card

Each new student must submit, with her/his application to the Admissions Office, a recent photo, which will be used by the Student Affairs Office to issue the student with an ID card. This ID must be always carried on campus and be shown when necessary for identification and certain University transactions.

Student Name

The names of students will be recorded in the AUT books as they appear on their identity cards or passports. Students whose names are not spelled in Arabic or English on their identity cards or passports may have their names on degrees and diplomas according to their personal preferences.

Requests for a name change must be supported by original, legal documents.

Refund Policy

Consult the section on Tuition and Fees for details on the refund policy of the University.

That refund, where applicable, applies to tuition only. Other fees are not refunded for any reason.

Classification of Students

Students are classified in the following classes according to the number of credits they have completed:

- Freshman 1-30 credits
  - The student must be officially admitted in the Freshman Program
- Sophomore 31-60 credits
- Junior 61-90 credits
- Senior 91 and above credits

Student Records/Statements

Generally, educational records of a student may not be released to other people without the student's written consent. Exceptions include communication of such documents to personnel of AUT who have a legitimate educational need for the records and release, in the case of an emergency, involving the health or safety of students or others. All kinds of statements, such as enrollment verification and other official certificates must be

requested at the Registrar's Office. However, the University may disclose information about a student in compliance with a judicial order.

Transcripts

The Office of the Registrar will issue official transcripts following a written request, provided the student does not have outstanding financial obligations to the University. A fee will be charged for each requested transcript. Transcripts can be obtained within 72 hours.

Unofficial transcripts are available to students at any time as the student's "Academic History" online through the AUT's portal.

Change of Address and/or Telephone Number

Students are requested to update/correct their addresses, telephone numbers, or the spelling of their name by notifying the Registrar's Office.

Change of Nationality

No student is allowed to change his/her nationality in the books of the University unless they meet the admission requirements of the State of Lebanon.

Academic Rules and Regulations

Grading System

AUT's grading system is based on letter grades (e.g., A, B+, B, C+, etc.) and a Grade Point Average (GPA) on the scale of 4.00.

Grade	Scale out of 4.00	Qualification	Scale out of 100
A	4.00	Excellent	90-100
B^+	3.50	Very Good	85-89
B	3.00	Good	80-84
C^+	2.50	Satisfactory	75-79
C	2.00	Average	70-74
D^+	1.50	Weak	65-69
D	1.00	Poor	60-64
FC	0.00	Fail	Below 60

Note: "D" is the passing grade for undergraduate courses and "C" for graduate courses.

The following grades are not counted in the GPA:

Grade	Meaning
AU	Audit
AW	Administrative Withdraw
F	Fail
GR	Granted
I	Incomplete
IP	In Progress
P	Pass
TR	Transfer
W	Withdraw

Grade AU (Audit): Automatically assigned by the system after the student registers for the course with the "Audit" option. Other grades may not be converted to an "AU" grade for any reason and vice versa.

Grade AW (Administrative Withdraw): Automatically assigned by the system after the student is withdrawn from all his/her courses for the semester due to very special circumstances (e.g., personal medical situation, travel for an extended period, etc.) that prevent the student from finishing the semester.

Grade GR (Granted): Given for a course granted to a student due to his/her completion of a diploma or a degree prior to the student's admission to AUT. For example, course credits granted to an undergraduate student for the Baccalaureate II diploma.

Grade I (Incomplete): Only given when a student is unable to complete a specific requirement of a course (e.g., final exam, project, research paper, etc.) for an acceptable and justifiable reason. "I" must be changed to a normal grade by the deadline date as published in the University's Academic Calendar otherwise it will automatically forfeit to "F or FC".

Grades P/F (Pass or Fail): Given in special courses (e.g., remedial courses) or in undergraduate courses taken by graduate students.

Grade TR (Transfer): Assigned to an approved transfer course from another University. A student is not allowed to re-take a transferred course by enrolling in its equivalent course at AUT.

Grade W (Withdraw): Automatically assigned by the system after the student officially withdraws from a course any time after the Add/Drop period and by the date of the "Last Day to Withdraw with W" as published in the University's Academic Calendar.

Grade Report

All semester grades are remitted by instructors on the AUT Portal, printed, signed and submitted to the Dean no later than 72 hours after the final course examination is completed.

Grade changes by the instructor, due to miscalculations, may be made within two weeks from the reporting date after the approval of the Dean of the Faculty.

A grade may not be changed after the lapse of one semester unless the student(s) can prove that his/her petition has not been processed by the department in charge or by the Student Affairs Office.

Unofficial transcripts, which list grades and GPAs are accessible by students online through Power Campus.

Grade Point Average (GPA)

To compute the GPA, we multiply the number of credits per course by the corresponding numerical scale and get the number of points per course. We add the points for all courses and divide the total number of points by the total number of credits attempted. Thus, the Grade Point Average is the ratio of the number of points earned to the number of credits attempted.

Academic Standing Policy

Academic Probations

A student on Probation I or Probation II is not allowed to take more than 13 credits per semester.

An undergraduate student will be placed on probation if, at the end of a semester, her/his GPA meets any of theconditions in the following table:

Current Situation	Cum GPA	Semester GPA	Effect
Good Standing	< 2.0	-	Probation I
Probation I	>= 2.0	-	Good Standing
Probation I	< 2.0	>= 2.0	Probation I
Probation I	< 2.0	< 2.0	Probation II
Probation II	> 2.0	-	Good Standing
Probation II	< 2.0	>= 2.0	Probation II
Probation II	> 2.0	< 2.0	Suspend for one semester

Removal of Probation

Probation is removed at the end of a semester if the student attains a cumulative GPA of no less than 2.0/4.0 with no failure in any course.

Class Attendance

- No student may pursue her or his education through correspondence or by merely passing examinations.
- Students are expected to attend and participate actively in all classes and workshop sessions. Absence of a student, whether excused or not, from any course or workshop session does not excuse the student from her/his responsibility for the work done or for any announcements made during her/his absence.
- If a student absents her/himself from one fifth of the classes (sessions), the student will be asked to drop the course. If the student does not drop the course a grade of "F or FC" will be given for that course.

Dismissal from the University

Dismissal is a penalty applied in cases of serious violations of rules and regulations, and when circumstances show that a student's association with the University should be terminated in the interest of maintaining the standards of behavior and conduct normally expected within a University community.

Readmission to the University

A student who has been suspended but who has not been denied the privilege of returning to the University may apply for re-admission after the expiration of one academic year. During that year the student should join an institution of higher education on a full–time basis and get a minimum GPA of 2.0/4.0. A decision to re-admit the student will be taken after a total re-evaluation of the student's record and in accordance with the admission and re-admission practices in effect at the time of application. Re-admitted students are placed on probation. If, by the end of the first semester of readmission, they fail to remove their probation they are dismissed from the faculty. If dismissal was decided for disciplinary reasons, the consideration for his/her readmission depends on the nature of the offence that led to the dismissal from AUT. An interview is required before a student is granted re-admission, which will be on probation.

Handling Student Absence Due to Illness

Students who have medical conditions, which may prevent them from meeting their university obligations, are required to follow the following procedure, to warrant the proper handling and consideration of their case.

Procedure:

- The student must report to the University's physician, Dr. Jean-Claude Honein, whose office is in AG108, for consultation. After the physician's assessment of the student's case, the student might be issued a medical report.
- Or the student may bring a medical report from his/her physician explaining the medical condition and the doctor's recommendation. In this case, the student must submit the medical report to the University's physician for his review and approval *within two (2) business days otherwise the medical report will be subject to rejection*. The report may be submitted directly to the University's physician office (AG108) or through the Student Affairs Office (AD201).
- The physician's office sends a copy of the approved medical report to the Dean of the student's Faculty.
- Upon obtaining a medical report approved by the University's physician, the student presents the approved, original medical report to each of his/her instructors for their consideration and appropriate action.
- The instructor will then make the appropriate arrangement for the student to make up for any work or
- Exams missed due to the student's absence.

Please note that no medical reports will be honored by the instructors or any representative of the University until they have been reviewed and approved by the University's physician.

Tardiness

Students are expected to be in class on time. Those who arrive late disrupt the activity being conducted. Three occasions of tardiness count as one absence.

Drop and Add

Dropping and adding courses take place during the add/drop period of a semester. After the end of this period no student may add courses.

Withdrawal from Courses

A student may withdraw from courses before the end of the withdrawal period, which is listed in the Academic Calendar of each semester. A "W" is inscribed on her/his semester grade report and on the transcript of record.

No refund for withdrawals is made.

Administrative Withdrawal

A student who has special circumstances that prevent him/her from completing the semester (e.g., need to travel, major illness, accident, etc.), may request to withdraw completely for the semester by submitting a completed "Request for Administrative Withdrawal" form along with documents supporting the case.

Note that:

- The Form must be submitted before the last day of classes of the semester.
- If approved, the student will be withdrawn from all registered courses and will be assigned a grade of "AW" for each course.

Change of Major

A change of major may be approved if the student meets the admission requirements and academic standards of the selected major. Students must complete and submit a "Change of Major" form to the Registrar's Office or the faculty dean's office before the deadline listed in the Academic Calendar.

Students with an approved change of major will have the option of dropping, from the Grade Point Average (GPA) computation, the grades of all his courses taken at AUT belonging to the requirements of the previously selected major, provided these courses are not required in the new major. In addition, courses graded "FC" that belong to the requirements of the previously selected major and are not required for the new major will be excluded from the GPA upon the request of the student. Students are not allowed to return to their previously selected major for any reason.

Change of Grade

Once the grade is recorded in the Office of the Registrar, an instructor may change it only because of recording or calculation error. The instructor should submit a change of grade form to the Registrar's Office after securing the approval of his/her chairperson of the department or the Dean. The change of grade form must reach the Office of the Registrar within eight weeks of the following semester.

Repeating Courses

A student who fails a course or gets a grade less than "C" is allowed to repeat the course twice only. While all grades the student gets for the course are inscribed on his/her record, only the highest grade obtained will be computed for the cumulative GPA.

Incomplete Grade

This grade is used only when the student, for reasons beyond his/her control, is unable to finish the work of the course, and there is reasonable expectation that he/she will successfully complete the course requirements. The "I" grade is given if the student has successfully completed a minimum of 60% of the course work and submits a "Request for Incomplete Grade in a Course" form. If the "I" grade is resolved, the course Instructor will submit to the Registrar the "change of grade form" indicating the new grade. If an "I" grade is not resolved by the deadline listed in the Academic Calendar, the Office of the Registrar will automatically convert the "I" to "F or FC".

Moral Character

Students are expected to conduct themselves in accordance with the University regulations and show evidence of sound moral character.

Any case of plagiarism, cheating, disrespect for oneself or others, undignified bearing, dishonesty and unfairness in attitude and behavior will lead to penalties ranging from failure in an assignment, an examination or course to probation, suspension or dismissal from the University.

Records of Disciplinary Actions

All records related to a student's violation of the University rules will be maintained for a period of 5 years after the student's last registration at the University. If the University decides that the penalties become part of the student's permanent record, the record will be maintained indefinitely. These records are subject to University regulations concerning the confidentiality of student records. Upon written request, students have the right to inspect their records of violations of University rules. Disciplinary records are kept with the Office of Student Affairs.

In some cases of misconduct, a student shall receive a dean's warning. If during the same Academic Year the student receives another dean's warning, he/she will be dropped from the University. If no cases of misconduct are repeated during the same academic year, the student can petition to have Dean's warning removed from the transcript.

Graduation Requirements

Undergraduate Program

As of the sophomore, students following the regular AUT program should complete a number of credit hours as designated in the contract sheet of each major in a minimum of 6 semesters and a maximum of 12.

Freshman students should complete 30 extra credits above their respective major in a minimum of 2 semesters and a maximum of 4.

As to the required GPA, a Cumulative GPA of 2.25/4.0 and 2.50/4.0 in the major courses are required.

Application for Graduation

An undergraduate student will be eligible for graduation if the student has:

- Has successfully completed the number of credits required for the degree program.
- Has passed all courses required in the major.
- Has a cumulative GPA of 2.25 or higher in all the courses taken at AUT and a GPA of 2.5 in major courses.

Students are asked to meet with their advisors each semester to discuss courses to be taken the following semester(s) and their academic standings.

It is the responsibility of the student to apply for graduation by completing the Graduation Form during the last semester.

Deadlines for students to submit their applications for graduation before the end of the graduation semester to print for them the correct name in "Arabic & English" on their degree.

Obtaining the Diploma

Upon clearing students for graduation and the printing of their diplomas, students must be cleared up by the Business Office and the Library before they can obtain their diplomas from the Registrar's Office. Also, they should fill the Alumni Association Form. They can receive, if they want, the Alumni card from the Students' Affairs Office.

Procedure for clearance to obtain the diploma:

1. The student completes a "Request to Obtain Diploma Form" and brings it to the University with a proof of identification (e.g., a passport or national ID card). If someone other than the student presents the form, then the designee must submit a copy of the student's proof of identification and a signed statement from the student authorizing the person to receive the diploma on his/her behalf.
2. Clearance after graduation to clear any item, especially from the Business Office at AUT at your Campus.
3. The student gets a clearance from both the Business Office and the Library.

4. The student returns the signed form to the Registrar's Office, to receive the diploma. The Registrar's Office grants the diploma to the student and signs the form.
5. The student should pass by the Students Affairs to replace her/his ID card by Alumni Card.
6. The student should fill the Alumni Association Form.
7. The original copy of the form is filed at the Registrar's Office along with other documents related to graduation to fill in the Exit Survey by using the link below:

   https://forms.gle/wxKVumcFqenozStG6

   Named: "American University of Technology Graduate Exit Survey (Classes of 2021 to 2026)"

Honors Designation for Undergraduate Students

AUT has two honors categories for students in undergraduate programs: The Dean's List and graduating with honors.

Dean's Honor List:

This Designation is determined at the end of each semester (excluding Summer).

To be placed on the Dean's Honor List at the end of a given semester, a student must:

- Be a regular full-time student.
- Have a Semestrial GPA of at least 3.5/4.0
- Have no failing or incomplete grades.
- Have no probations of any type.
- Have no disciplinary action against her/him.

Graduating with Honors:

This honor's designation is to appear on the student's diploma and academic transcript.

There are three Honors levels:

- Cum Laude (Honors): $3.50 \leqslant GPA < 3.65$
- Magna Cum Laude (High Honors): $3.65 \leqslant$ Cum. GPA < 3.80
- Summa Cum Laude (Highest Honors or distinction): $3.80 \leqslant$ Cum. GPA $\leqslant 4.0$

Graduate Program

The AUT Graduate Program aims to be the premier provider of market-driven, action-oriented, technology-based graduate education.

The graduate program answers to local and regional market needs by the uniqueness of its curricula and responsiveness of its emphasis while keeping an eye on globalization, internationalization and the information revolution. In designing its graduate program, the AUT Graduate Study program created a learning environment that is truly focused on the needs of businesses and career goals of future professionals.

The mission of the Graduate program consists of bridging the gap between academia and the marketplace through the integration of market challenges into its program. It also

prepares its curricula to respond to the emerging needs of the local and regional markets, providing the market with total solutions via applications-oriented education, executive training, consulting and research. Several graduate programs have been developed to cover a wide area of concentration and needs.

Probation Students

Students accepted on probation must obtain a grade of "B" or higher in any courses specified in the acceptance letter from the Office of Graduate Studies.

GPA Requirements and Dismissal from the Program

Master's Degree candidates are required to maintain at least a B average. Only students with a 3.0 or better will graduate. A student may not graduate with more than 2 course grades lower than B. Courses for which grades lower than B are received may be repeated only with the permission of the Board of Deans committee. The new grades replace the old for the computation of the GPA, but both grades are recorded on the transcript.

A student whose academic performance is considered inadequate will be dismissed from the program. Conduct inconsistence with ethical and professional standards is also ground for dismissal. Such conduct includes academic fraud.

Leave of Absence

Students who have not completed their programs of study and desire a leave of absence must apply to the faculty specifying the duration of the requested leave. Such leave will normally be granted, but any student who does not apply for the leave of absence and does not register for at least one course in a semester will be considered as withdrawn from the program.

Reinstatement to the Program

Students who have withdrawn from the program need to submit a "Reactive Application" to the appropriate faculty.

Graduation Requirements

Students are responsible for knowing and meeting curriculum requirements as shown below:

The Master of Business Administration (MBA) in Business Administration requires a minimum of 39 credits with Thesis or a non-thesis option.

The Master of Science (MS) in "Computer Science or Information Technology" require a minimum of 39 credits with Thesis or non-thesis option.

Those who expect to receive the Master degree should make clear their graduation intentions to their advisors.

Withdrawal Refund Policy

After registration, a student withdrawing for a justifiable reason will be refunded tuition fees as follows:

- Before classes begin: 100% of fees are refunded
- During the first week of classes: 75% of the total fees are refunded
- During the second week of classes: 50% of the total fees are refunded

This refund policy is applicable for Fall and Spring semesters. There will be no refunds for summer semester withdrawal.

Offered graduate programs

The Faculty of Business Administration and the Faculty of Applied Science & Technology offer graduate programs that lead to master's degrees. For specific information kindly refer to the faculty concerned in the introductory part of this catalog.

Master of Business Administration

The MBA program is an innovative, market-driven program, designed to develop leaders who will create value for themselves and their organizations in a time of relentless change. It is a lock step.

Master of Business Administration is 39 credit hours and is fully accredited by the Ministry of Education and Higher Education.

Enrolling students will have the strategic skills and vision necessary to attain organizational and personal goals. The program's highly applied curriculum is built around a unique blend of analytical foundations, solution-based courses and action learning opportunities. Students have the opportunity of selecting a general or any of the fields of concentration that are unique in Lebanon and the region i.e. Accounting, Banking & Finance, Entrepreneurship, Hospitality and Tourism Management, Human Resources Management, Management, Management Information Systems, Marketing and School Administration.

Master of Science

Master of Science in Computer Science & Information Technology is 39 credit hours and is fully accredited by the Ministry of Education and Higher Education.

The Department of Computer Science offers two Master of Science degree programs: one in Computer Science and the other in Information Technology. These programs are designed to provide advanced Knowledge of the fields of study to enhance the potential and competence of graduates searching for better study and career opportunities.

Tuition and Fees for the Academic Year 2024-2025

The following tuition fees apply to all students.

Undergraduate credit	$ 220
Graduate credit	$ 315
Registration per semester	$ 400
Activities, yearbook, technology, Internet and library access per semester	$ 250
NSSF per year (when applicable)	LBP 5,400,000 or $ 60

Lebanese students are also required by law to enroll in the National Social Security Fund (NSSF) – Medical Branch. Those students who do not benefit through a parent will be charged a fee of LBP 5,400,000 annually for this coverage or equivalent to $ 60.

Other fees also apply and are summarized in the following.

Application and admission fees including placement exams		$ 50
Graduation fees		$ 300
Final exam make-up (when no valid reason and if approved)		$ 100
Late payment		10% of remaining balance
Reactivation of student file who left between 2 years		$ 100
Readmission of student left more than 2 years		$ 400
Change of major to other faculty	Same faculty	$ 20
	To other faculty	$ 25
Petition		$ 10
Transcript		$ 20
Certificate / Attestation		$ 10
Diploma duplicate		$ 100
Diploma shipping by courier		$ 50
Add Envelop and stamp to any document		$ 5
Deposit for cap & gown		$ 100
Refund cap & gown upon return		$ (75)
Alumni ID card		$ 10

Financial Aid

The Financial Aid policy states that American University of Technology is committed to needy enrolling students regardless of their religion, race, gender, nationality, and social background.

Applications are evaluated on a case-by-case basis.

Many governmental and private companies provide parents with financial assistance to help with the educational needs of their dependents. Students on financial aid, who benefit from such aid, must inform the Financial Aid Office, in writing, of any such financial assistance they are receiving. In this case, the total financial aid received from AUT and external sources cannot exceed the student's tuition fees.

Types of Financial Aid

Standard Financial Aid - The Financial Aid is designed to be offered to needy students that are working and can demonstrate that they have no time to give to a work/study program. The committee will ask their employers for affidavits in support of their claims. Furthermore, students who lose parents during their study are eligible for financial aid if their family situation shows there is a need.

Work Study - The objective of the Work-Study program is to develop the student's discipline and responsibility. Students must be on the Financial Aid list to be eligible for this program. They may be assigned to departments or offices or to specific events like open house, school orientation, conferences, outdoor events, etc.

President Grant - The President Grant is directly related to the President of the University, but once granted to a student, it is managed by the Financial Aid office. A procedure in this respect must be followed. The President, upon his/her discretion, shall choose the recipient of this grant, which could be offered to more than one student.

Sibling Discount - A 10% discount is given to brothers and sisters registered at the same time. In the presence of three siblings they will each automatically obtain 20%.

Athletic Discount - This is granted to talented students who participate in the official university team. A 10% discount will be given to those who represent the university sports team.

Corporate Discount - This is an agreement made by Admissions with a given institution, whereby a student benefits from a percentage discount on tuition fees according to each individual agreement.

Staff Discount - Staff family members benefit from a 25% discount on tuition fees, whereas the children of staff benefit from a 100% discount on the tuition fees.

Scholarships - The remaining budget from the financial aid budget is allocated to scholarships granted to students who achieve high GPA levels. This budget is allocated according to faculty and campus needs.

Designated Grant - As determined by the donor - This grant is awarded based on the availability of financial assistance provided by donors and/or organizations. The criteria to follow in this category is determined by the donor.

Financial Aid Council

The University shall establish one Financial Aid Council for all campuses. The Council is appointed for one year starting June 1st and ending May 31st. The Council is appointed by the President in consultation with concerned administrative and academic key personnel. The Council is normally composed of representatives from the Registrar Office, Admissions Office, Business Office, Financial Aid Office, External Relations Office and three faculty members – one from each faculty. The Student Information System (SIS) Coordinator for Accounts Receivables is invited to attend when the need arises. The President, Provost and Deans may attend the meetings as ex-officio members with no voting power.

The Financial Aid Council elects a Chair and a secretary in its first meeting of every year. It is the duty of the Council's Chair to call for meetings in coordination with the Financial Aid Office.

The Financial Aid Council is responsible for allocating the annual financial aid budget as set and defined in the university budget. The budget must include all types of financial aid programs. However, it shall be the duty of the Financial Aid office to supervise the implementation of the program.

Financial Aid Eligibility

In general, a student, to be eligible for financial aid at AUT, must meet all the following criteria:

- The student is accepted at AUT.
- The student who is not eligible for financial aid and cannot pay the full fees is allowed to pay the amount in installments during the academic semester.
- The student who registers for only 12 credits is not eligible for any financial aid but can pay the amount in installments during the academic semester.
- The student maintains a cumulative GPA of 2.4 and above. The student loses financial aid when his/her cumulative GPA drops below the said GPA. New students may get financial aid based solely upon their financial situation and for one year only. The GPA will apply after the 1st semester.
- The student receives passing grades in 15 or more credits in the semester he/she is registered in. Financial Aid is automatically denied once the student does not match this condition. Reinstating financial aid may be done in cases where the condition is satisfied and upon reapplying to the Financial Aid Council.
- The student has no disciplinary actions against her/himself.
- Discounts are applied on the tuition fees only.
- If there is an outstanding balance due at the end of a semester the student will lose her/his financial aid.

The student abides by the rules and procedures set by the Financial Aid Committee and supervised by the Financial Aid Office. The student is expected to accept the decisions of the Financial Aid Committee. In cases where the student is not satisfied with the decision, she/he may appeal to the University Council.

Financial Aid Application

Financial Aid is normally granted for one academic year (from October to June). It may be renewed upon re-application if the eligibility still holds.

The Financial Aid application form may be obtained from the Financial Aid Office. Students wishing to apply are requested to fill out this form and submit it before the deadline announced on the AUT's website (www.aut.edu). The application form must be filled out accurately and signed by both the student and parent or guardian. All students must submit, along with the application, official documents proving the authenticity of the information provided. New students must submit their financial aid applications to the Office of Admissions, which in turn will forward them to the Financial Aid Office for further processing. Any attempt to provide misleading information may result in rejection of financial aid to the applicant. The information provided is strictly confidential. The Financial Aid Office then contacts the student for an interview, which includes his/her parents or guardian, before a decision is made.

In case the Financial Aid Office discovers that there was misrepresentation, inconsistency or withholding of necessary and important information, the University reserves the right to request the return of the money already paid to the student. The Financial Aid programs are subject to budget availability.

Work-Study Rules and Procedures

Work-study is another form of financial aid. The student must meet the conditions of Financial Aid Eligibility. To benefit from the Work-Study Program, the Financial Aid Committee decides on the number of working hours per semester for each accepted applicant. The rate per hour is set and announced by the Administration as part of the approved annual financial aid budget of AUT. Students on the work-study program are assigned to offices and departments by the Office of Student Affairs in consultation with the officer of the department concerned.

Such students are expected to complete the assigned hours as scheduled by the office/department to which they are assigned. If students fail to do so, they must pay the difference from their account and their work-study aid may be suspended. Students are responsible for filling out their work time sheet on a daily basis or on the days they have been given work to do. Such time sheets, signed by the officer of the department, must be submitted to the Financial Aid Office by the OSA at the end of every month. (However, the Financial Aid Office may, for financial purposes, assign a specific date at the end of the semester, to close the balance of the students' working hours).

Student Affairs Office

Statement of Purpose

The Student Affairs Office is committed to providing an atmosphere of interaction between students conducive to better understanding of other cultures, tolerance of other people's beliefs and constructive debates around key issues of interest. It also works to promote activities and events that help the development of students' talents and interests.

Scope of Activities

The Student Affairs Office works in collaboration with student leaders to help establish clubs and associations. Each club or association must be formed and operated according to specific bylaws provided by the Office of Student Affairs. Clubs cover areas related to sports, social issues, drama, movies, chess and other areas wherein student interest is detected, and that do not conflict with the mission of AUT.

Student Profile

AUT cares about the educational welfare and future of each and every one of its students. AUT prepares its students to become successful leaders in their own fields of specialization in Lebanon and around the world. An important part of AUT's mission is the holistic development of the student as a person who possesses the essential qualities and values for success in life. Accordingly, the University has identified a set of characteristics and attributes that a graduate of AUT should have, along with activities and programs to foster and nurture their development.

The profile of an AUT graduate can best be defined as a person who is:

- Caring
- A communicator
- A problem solver
- Reflective, critical, and creative
- An active team player
- Cultured and open-minded
- Genuine
- Ethical

Activities and Campus Life

Learning and development take place in many ways on a university campus. Co-Curricular activities organized by the Office of Student Affairs offer students many opportunities to develop new skills, try new activities and make new friends. Activities include campus-held conferences and cultural events, field trips to businesses, community-oriented projects as well as sports training and competitions.

The Office encourages community services, which aim at providing a link between students and society. It develops within students an awareness of social needs and gives satisfying experiences.

Guidance Office

This Office functions under Student Affairs. It provides students with the attention and assistance they need for their physical, social, emotional and academic growth needs by providing the following services:

Counseling Services

One of the major functions of the Guidance Office is to provide individual or group counseling for students.

Qualified counselors are available to work with students with personal and social adjustment problems, with concerns related to selection of majors as well as with general academic, educational and career planning advice. Professional confidentiality is strictly maintained in all areas of student counseling.

Health Services

The health services provide preliminary health education and health counseling. Every student has a medical insurance plan designed to help meet financial difficulties arising from illness or accidents.

Programs

Career guidance programs are planned based on students' interests featuring information about graduate study, writing curriculum vitae and preparing for job interviews.

Student Orientation

At the beginning of each semester, prior to registration, the Office of Student Affairs conducts a "one or two" days orientation program for all new students. The program is aimed at helping new students get acclimated to the University and its campus, as well as giving them the chance to meet other new students and returning students who assist with the orientation program. Orientation includes campus tours and visits, meetings, lectures, demonstrations and other relevant activities. New students are expected to participate in all activities, as they provide information which is designed to insure a successful first-year experience.

Student Services

The Student Affairs Division at AUT strives to ensure that students have a full, enriching and exciting experience at the University. The personal and academic development of the students is central to the Division's mission, which entails:

- Complementing academic experience.
- Providing directions for out-of-classroom learning.
- Helping students to develop self-responsibility and respect for others.
- Working with students to build a campus community that is both supportive and inclusive.
- Creating experiences that expose students to new ways of thinking and living.
- Encouraging personal growth through the development of social skills, ethics and overall wellness.
- Developing opportunities for students to learn and practice leadership skills.

- Assisting students with transition and adjustment issues through counseling or otherwise.
- Engaging students in local and national service opportunities.

Our efforts aim to maximize the development of the students with whom we work. We are committed to:

- Promoting a safe, fun, and healthy campus environment.
- Serving as positive role models.
- Involving students.
- Providing a learning environment that is both challenging and supportive.
- Assuring the presence of high quality, dynamic student services that are responsive to student needs.
- Working collaboratively with other divisions of the College and the larger community.

The key programs and services offered to students:

- Academic support.
- Financial support and scholarships.
- Work-study program.
- Internship and career services.
- Group and peer tutoring.
- Training and enrichment activities.
- Writing across the curriculum.
- Spiritual counseling.
- Medical and health counseling.

What makes AUT different?

- Small and dynamic classes.
- High academic standards.
- Caring faculty and staff.
- Support available when needed.
- Convenient and accessible campuses.
- The student comes first.

Clubs and Societies

One way for the students to get involved in student life at AUT is through Students Clubs. For a club to be recognized by AUT, its purpose must be consistent with the stated objectives and goals of the University and must have a full-time faculty member as an advisor.

Clubs are part of campus activities that provide a platform for students to interact with their peers, who have similar interests, and to learn from each other and together reach out to the campus community and the community at large, amongst them being the AUT Debate Club, AUT Sports Club, and more.

Student Success Office (SSO)

Introduction: The Student Success Office (SSO) coordinates the University's retention strategies through a partnership with faculty, students, campus life, staff, parents and other university constituents. The emphasis is on the students' social, personal and academic adjustment to college life and experiences.

We at AUT believe that Individual attention gives students the needed assistance to be successful.

The Mission: The Student Success Office (SSO) at the American University of Technology is dedicated to improving the quality of the University experience for all students, from the time of the initial transition into the University community throughout the first year and beyond. SSO offers a unique service as an advocate for all students and specifically for undergraduates and New Year students.

The Focus: Problems may arise in a number of different areas. It is important that these problems be handled in a direct, quick, and friendly manner. First Year students attend the SSO with concerns ranging from a need for academic services, course load difficulties, testing issues and sometimes just for moral support.

To serve our diverse student body better, the Student Success Office (SSO) upholds and reaffirms AUT strategy in understanding our students' needs in more depth and in an ongoing effort to align our programs and services accordingly. SSO personnel can assist, guide, advise or steer most students to the right person or place on campus, in order to achieve a resolution of their problems.

Direct Student Support Objectives

- Enhance the quality of student experience through effective transition and integration strategies.
- Increase student access to campus-wide services through information and referral processes.
- Identify social, financial, and academic issues that could potentially affect student attendance, performance, and success.
- Assess and identify academic-related skills needs.
- Provide support in effective problem solving and successful planning strategies.
- Develop an academic environment, expand independent learning, and provide opportunities for the personal growth of future professionals.

Student Success Services

SOP (Summer Orientation Program) – AUT's Summer Orientation Program is a summer program for Fall classes, during which incoming first year students take placement exams in English and mathematics; and when necessary, other examinations, register for classes with their academic advisor, get their student ID and learn more about the academic particulars of their new campus.

YLPS (Year-Long Program for Students) – SSO offers year-long programs which help first year students overcome any difficulties they may encounter, whether on academic level (by providing special assistance in coping with academic departments) or on a social/emotional level (by providing special seminars with the University psychologist,

medical doctor and speakers specialized in topics that enhance students' social adaptation) to make their social integration easier and more productive. SSO also directs and assists students in abiding by the University rules and regulations, especially those related to attendance, participation, behavior and other academic regulations.

Parent Participation Program – This program is designed to keep parents informed of important first year student issues and activities, and to create and maintain communication among parents, their children, and the University, where and when it is possible.

AUT Student Code of Conduct

In line with the values and principles of the American University of Technology (AUT), the Student Code of Conduct complements the AUT General Code of Conduct. It outlines the behavioural expectations, rights, and disciplinary procedures applicable to all students enrolled at AUT.

By enrolling at AUT, students agree to uphold these standards, thereby contributing to a respectful, safe, and academically honest university environment.

Preamble

The American University of Technology expects that all faculty, staff, and students embrace and exemplify the values and principles as defined in the "AUT General Code of Conduct", in particular:

- Act with academic integrity
- Value diversity
- Respect of academic freedom
- Comply with law and policies
- Advocate mutual respect
- Protect health and safety
- Respect university resources and data protection

The "AUT Student Code of Conduct" is based on the "AUT General Code of Conduct" and complements it by providing the procedures that apply in several misconduct cases.

By applying for and accepting admission to AUT, students accept its regulations and acknowledge the right of the University to take disciplinary action for conduct judged to be in violation of the applicable Code.

Prohibited Conduct

Alcohol and/or Drugs

- The possession, use, or distribution of alcohol or drugs on campus or in any activity or event related to the University is strictly prohibited.
- Any alcohol- or drug-related behaviour that endangers the health, safety, or well-being of other members of the University or non-members of the University is strictly prohibited.
- These are considered as a violation of the code of conduct that falls under the jurisdiction of the "Ethical Committee" defined in "AUT General Code of Conduct". Depending on the case, the committee evaluation outcomes can vary from requiring treatment up to terminating the student relationships with the University.

Bribery

- Attempting to bribe or causing to offer bribe or favour to any member of the University to influence or alter decisions, processes, academic evaluations, or administrative procedures are strictly prohibited.
- These are considered as a violation of the code of conduct that falls under the jurisdiction of the "Ethical Committee" defined in "AUT General Code of Conduct". Depending on the case, the committee evaluation outcome can be one of the disciplinary measures enumerated in the following.

Collusion

- Aiding, assisting, or attempting to aid or assist another individual to commit a violation is not allowed.
- The resulting measure can be up to the same measure applied to the person committing the violation and, depending on the violation, falls under the jurisdiction of either the Disciplinary Committee or the Ethical Committee.

Damage to Property

Any damage caused to university property, or to property owned by individuals, is considered as the result of misconduct that must be prohibited.

Depending on the level of the damage, such violation falls under the jurisdiction of either the Disciplinary Committee or the Ethical Committee.

Discrimination and/or Harassment

- Engaging in actions, behaviours, or practices that unfairly target or disadvantage individuals or groups based on age, disability, ethnicity, gender, nationality, race, religion, sexual orientation, or socio-economic status is strictly prohibited.
- Using language or materials that promote hatred, violence, or discrimination against individuals or groups of individuals is forbidden.
- Participating in verbal, physical, or digital harassment that intimidates, threatens, or demeans is not allowed.
- Engaging in stalking, inappropriate comments, or actions of a sexual, verbal, or physical nature that violate personal boundaries is prohibited.
- Depending on the severity of the case the resulting measures can go from a disciplinary measure up to and including termination of relationships with the University. In extreme cases, civil or criminal charges and penalties may apply. The Disciplinary Committee is first involved in defining the resulting measure, and if need be, it can forward the case to the Ethical Committee.

Disruption

Three cases are distinguished:

- Disruption of University community and/or campus neighbourhoods
- Disruption of safety measures
- Disruption of Activities

Any disruption is prohibited. The most severe case is the disruption of safety measures. The resulting measures depend on the severity of the disruption.

This falls under the jurisdiction of the Disciplinary Committee that can forward the severe cases to the Ethical Committee.

Failure to Comply

The failure to comply with a proper directive of a university official is considered as a prohibited misconduct. Examples include refusing to present the Card ID on the gate or failing to attend mandatory meetings.

This falls under the jurisdiction of the Disciplinary Committee.

Harm to Persons

Any type of harm (physical, emotional, or psychological) caused to a person or group of people is prohibited.

This falls under the jurisdiction of the Disciplinary Committee that can forward the severe cases to the Ethical Committee.

Invasion of Privacy

The intrusion into the personal life of another in ways that could cause injury or distress is prohibited. Exceptions may be accepted if the aim of the intrusion is to prove oneself innocent with the condition that the private materials (proofs) remain confidential.

This falls under the jurisdiction of the Disciplinary Committee.

Misleading information

Presenting wrong or falsified information to university officials misleading them is prohibited.

This falls under the jurisdiction of the Disciplinary Committee.

Theft

Stealing on campus or at a university-authorized event off campus, including unauthorized use of university equipment or services is prohibited.

This falls under the jurisdiction of the Disciplinary Committee that can forward the severe cases to the Ethical Committee.

Violation of Law or Operational Rules

Violation of national or international law, or university operational rules is strictly prohibited.

This falls under the jurisdiction of the Ethical Committee.

Weapons

Possession or storage of weapons or items that could be used as weapons or pose a safety risk on campus or at a university-authorized event off-campus is strictly prohibited.

This falls under the jurisdiction of the Ethical Committee.

Jurisdiction and Consequences

Jurisdiction

Violations may be divided into two categories: academic and non-academic. For example, the failure to comply with the rules of a course assessment is considered as an academic violation, while damaging a university property is considered as a non-academic violation.

Jurisdiction of academic violations lies under the authority of the course instructor in which the violation occurred. The student may require the intervention of the Student Affairs Office. In this case, the dean of the faculty decides on the measure to take.

Non-academic misconducts fall under the jurisdiction of either the Disciplinary Committee (for non-severe cases) or the Ethical Committee (refer to "AUT General Code of Conduct") who will consult with the dean of the faculty to which the student belongs.

Consequences

Disciplinary action will be imposed according to the nature (academic or non-academic) and severity level of the violation.

Academic Misconduct

In principle, enforcement of disciplinary actions for academic violations is carried out by those immediately responsible.

When the instructor has taken the initial disciplinary action, he or she should send a letter to the office of the dean of the faculty in which the incident occurred, informing her/him of the incident and the initial action she/he has taken. A copy of the letter will be placed in the student's file, and another copy forwarded to the student's adviser for follow-up.

In case any student is caught cheating in any manner or form, the following procedure will be followed:

1. The proctor will ask the student to provide his/her ID to record the incident.
2. Paper slips or any object used for cheating must be attached to the report.
3. The proctor may allow the student to complete the exam leaving it up to the instructor to analyse the incident report and take the final decision.
4. If the caught student refuses to hand in the ID, she/he shall be asked to leave the room. Also, if the caught student is caught again in an act of cheating, she/he will be asked to leave the room.
5. The report, filled in and signed by the proctor, will be forwarded to the instructor responsible of the course, to follow up and take appropriate action. A copy of the report must be sent to the corresponding dean's office.

Other cases of misconduct such as disrupting the flow of the exam shall be reported following the same procedure as above. If the misconduct continues afterwards, the student will be asked to leave the room.

Non-Academic Misconduct

Non-academic misconduct cases are handled by either the Disciplinary Committee or the Ethical Committee depending on its severity. The committee conducts the necessary investigation and issue one of the following disciplinary actions.

Warning

This may be oral or written. It is a statement that the student has inadvertently violated a university regulation. The warning will be documented and recorded. Examples: smoking in prohibited areas.

Reprimand

This will be in writing. It is a statement that the student has violated a university regulation. It is intended to communicate most strongly, both the disapproval and the reprimand of the university community.

Examples: inadvertent plagiarism.

Dean's Warning

This will be in writing. Only two dean's warnings are allowed in a student's academic pathway at AUT.

It is recommended that any violation of university regulations after the second dean's warning results in consideration of suspension. Dean's warnings are normally accompanied by secondary disciplinary actions. If the student refrains from further actions of misconduct, she/he may petition the dean to remove the warning from the transcript. Examples: plagiarism, academic dishonesty, disruption, in-class disruption, mental or physical harm, discrimination and harassment.

Suspension

This will be in writing and will form part of the student's permanent record (and will appear on the student's transcript). A student who commits flagrant acts such as assaults, theft, and destruction of property, will be suspended for a fixed period during which the student may not participate in any academic or other activities at the University.

At the end of the suspension period, the student may be readmitted to the University, only upon the recommendation of the University Ethical Committee.

Expulsion

This will be in writing and will form part of the student's permanent record (and will appear on the student's transcript). Expulsion denies the student the right to participate in any academic or other activities of the University for an indefinite time. Only under the most unusual circumstances, and upon the recommendation of the University Ethical Committee, will an expelled student be readmitted to the University.

Examples: academic dishonesty, possession of dangerous weapons or materials, and endangering public safety.

Complaint Procedure

Any person subject to, or who witnesses, a violation of the Student Code of Conduct should forward a written complaint to a faculty member, a chairperson, or any university official.

Reports should include specific details, evidence if available, and contact information for follow-up.
The University ensures confidentiality and protection for good-faith reporters.
Investigations will typically begin within 5 working days of receiving a report.

Appeal Procedure

Any student who is charged with a disciplinary offense has the right to a full and fair hearing for any disciplinary charges brought against him or her under university regulations.

If any of the following apply, a student may appeal to the dean of the faculty regarding faculty or departmental decisions, or to the Disciplinary Committee, or the University Ethical Committee against other disciplinary actions depending on the committee that decided the measure:

1. Procedural error
2. New evidence
3. Unsupported conclusion
4. Disproportionate sanctions

The outcome of this appeal may result in higher, lower, identical, or no sanctions at all being imposed. After the appeal the University Ethical Committee's decision shall be final.

Disciplinary Committee

The Disciplinary Committee in each faculty is responsible of studying non-academic violations and deciding on the resulting measures. The Committee is formed of:

- Dean of the corresponding Faculty (Chair)
- One Chairperson
- One Faculty member
- A member from the Student Affairs Office
- One student representative

For each case, the committee tries to reach a consensus about the measure to take. In case no consensus is reached, the Dean chair of the Committee states on the case.

Disciplinary Records and Confidentiality

• Disciplinary records are maintained by the Office of Student Affairs for a period of up to 5 years.
• Access is restricted to authorized University personnel.
• Records may be disclosed to external parties only with student consent or as required by law.

Definitions

• *Academic Integrity: Upholding honesty and ethical standards in all academic work.*

• *Harassment: Unwanted conduct affecting a person's dignity or creating an intimidating environment.*
• *Misconduct: Any behaviour that violates the standards of the AUT Student Code of Conduct.*
• *Appeal: A formal request to review or change a disciplinary decision.*
• *Ethical Committee: The body responsible for evaluating misconduct and determining appropriate actions.*

Student Rights

• *The right to due process and a fair hearing.*
• *The right to be informed of allegations and see the evidence.*
• *The right to appeal disciplinary decisions.*
• *The right to confidentiality during investigations.*
• *The right to representation or accompaniment during hearings.*

Freshman Program

Students admitted into the Freshman Program are required to complete the entire Freshman Curriculum and then obtain the Freshman equivalency certificate before starting to study & apply to Freshman Program from the Lebanese Ministry of Higher Education (MEHE). Freshman Arts requires a minimum total score of 870 on SAT I. Freshman Science requires a minimum total score of 950 on SAT I.

The student should provide the admissions office with approval or the equivalence from MEHE to study the Freshman program at AUT. Students admitted to the Freshman Program will have one year to complete a total of 30 credits.

The Curriculum

Freshman Arts 30 credit hours should be:

A. Mandatory courses **9crs.** (ENG 103, MAT 100, COM 110) or other equivalent courses.
B. Humanities & Social Sciences **12crs**.
    i. Humanities **(min 3crs)**.
    ii. Social Sciences **(min 3crs)**.
C. Natural Science or Computer Science **3crs**.
D. Free Elective courses **6crs**.

Freshman Science 30 credit hours should be:

A. Mandatory courses **21crs.** (ENG 103, COM 110, MAT 101, BIO 101, CHE 101, PHY 101, CSC 101) or other equivalent courses.
B. Humanities & Social Sciences **6crs**.
    i. Humanities **(min 3crs)**.
    ii. Social Sciences **(min 3crs)**.
C. Free Elective course **3crs**.

The Freshman courses are listed below, and the student can choose the specific courses from the list when offered during the year:

English course: ENG 103

Languages courses can be taken as elective courses: CHI 101, ITA 101, SPA 100, and FRE 101.

Humanities Courses:

ART (100, 101, 102, 105, 106, 107, 110, 120) DES 101, DRA 100, FLM (102, 104, 110, 111, 112), GDP 101, HIS 101, PHL (101, 102, 103), HUM 118, HOM 160.

Social Sciences courses:

ACC (101, 102), BUS 101, COM (102, 106,110), ECO (101, 102), MKT (100, 102, 106), POL (101, 102), PSY 101, SOC (101,103).

Natural Science & Computer Science courses:

BIOL (101,103), CHE (101,102,103, 111), CSC (100, 101, 106, 115, 130, 141), GEO (101,102), HLT 110, MAT (100, 101, 102, 103), NTR 101, PHY (101, 102, 103), WGS (100, 113).

Notes:

- Students will not be allowed to enroll in their Sophomore year until they obtain the Freshman Equivalency from the MEHE upon completion of their program.
- BT3 students who are accepted to study at AUT, should register and select their courses from the remedial courses listed below (taking into consideration their respective majoring program):
  BIOL 104, CHE 104, ECO 104, MAT 104, MKT 104, PHL 104, PHY 104, PSY 104, SOC 104, STA 104.

Advisor

Mrs. Huda Nakad (AUT Registrar)

Course Descriptions

Humanities & Social Sciences

ENG103 Writing Skills for Freshman (3 credits) Freshman is an advanced language course that includes listening, speaking and reading/writing. It covers the major components of effective communication in English. Students practice essay writing and are expected to participate in oral debates and presentations. By completing this course, they should be able to fluently communicate in English, both orally and in writing. **Prerequisites**: Placement

HIS101 History of Modern Lebanon (3 credits) This course covers the history of the modern Republic of Lebanon for a period of about one century, from 1920 until the present day. After a brief historical introduction of the Ottoman domination, the course will address the earlier emergence of Greater Lebanon, as well as the independence period, and study all the major events leading up to the civil war. It will also look at the period covering both power sharing agreements: the Maronite Sunni agreement of 1943 and the Taëf agreement of 1989. Finally, it will conclude with a close look at the contemporary period: from the reconstruction of Lebanon after the end of the war until the new tensions emerging in Lebanon within the Middle East crisis.

Foreign Language (3 credits) This course is to allow students to read and understand scientific texts and draw differences between such texts and literary ones. Furthermore, this course should also allow students to practice writing skills. All this is meant to facilitate the study of subject matter related to technical specializations.

PHL101 History of Arab Philosophy (3 credits) These courses trace the intellectual, literary, and cultural development of the Arabs from pre-Islamic times up to the age of Ibn Khaldun.

Social Sciences:

COM110 Introduction to Public Relations (3 credits) This course provides information about the field of Public Relations: Definition of basic concepts and how the practice is conducted in various settings. It also provides updated information and case studies to help students understand the models, practices and issues in contemporary Public Relations. The elaboration of two projects will allow students to put in practice the information they have learned.

ECO101 General Economics (3 credits) This course covers the behavior of firms and households in the market economy, production of the firm, determination of costs and prices, income distribution, examination of alternative market structures. Topics covered include: maximizing behavior of consumers and welfare implications of marketplace performance.

HUM118 Human Rights (3 credits) This course is designed to provide students with the opportunity to learn about the growing importance of human rights and their impact in the world today. Students examine a variety of issues related to human rights and broader contemporary trends related to human rights and business. The course helps students to understand the interrelationship between human rights and political, social and business development. Students will also gain an understanding of the existing international human rights standards and examine ways in which business and human rights intersect.

POL101 Introduction to Political Science (3 credits) In this course students will be exposed to guiding principles in political science. It seeks to address current issues, as well as establish solid basis for political understandings. We will focus on two areas: political theories and their relationship to important actors in current global politics.

PSY101 Principles of Psychology (3 credits) This freshman level social sciences course introduces students to the basic terms, facts and principles of psychology as the scientific study of human behavior and mental processes. Topics include biological aspects of behavior, sensation & perception, learning, memory as well as consciousness.

SOC101 Introduction to Sociology (3 credits) This course introduces students to the basic concepts and methods of sociology. It develops their social perspective, their sense of interpreting and understanding of the social world around us from a sociological perspective.

Mathematics and Natural Sciences

Mathematics

MAT100 College Algebra (4 credits) Real numbers and their properties; first-degree equations and inequalities; exponents and polynomials; operations with rational expressions; radicals, and rational exponents; Quadratic equations, inequalities; equation of a straight line; systems of equations and inequalities; functions; exponential functions; logarithmic functions.

Prerequisites: Placement

MAT101 Calculus I (3 credits) Functions and graphs; Trigonometric functions; Logarithmic and exponential functions; Rate of change; Limit and continuity; Tangent

lines; Derivatives; Differentiation rules; Applications of derivatives: extreme values, graphing functions, optimization and differentials.

Prerequisites: Placement

Natural Sciences

BIO101 General Biology (3 credits) To study a simplified presentation of basic chemical and biological concepts with the emphasis on human body structures and functions and the common systematic disorders, diseases, and malfunctions associated with the different systems and their organs.

Prerequisites: Placement

CHE101 Principles of Chemistry I (3 credits) This course is a survey course in chemistry. It involves the study of the fundamentals of chemistry with an emphasis on bonding, intermolecular forces, and properties of the elements, physical states of matter, the periodic table, chemical kinetics, and the chemistry of materials.

GEO102 Introduction to Geology (3 credits) Physical aspects of the science of geology; common rocks and minerals; engineering properties of rocks; earth's processes and structure in solving engineering problems; historical aspects of geology; application of geological science.

PHY101 General Physics I (3 credits) Elements of vector calculus, position, velocity and acceleration. Motion in one and two dimensions. Dynamics of point particles, Newton's laws, gravitation, concept of force, freely falling objects, projectile motion, circular motion. Work, energy and power. Kinetic and potential energy. Conservation of total energy. **Prerequisites**: Placement

Computer Science

CSC101 Computers and Society (3 credits) This is a course that explores different computer hardware, software, applications, and cases that demonstrate their impact on different services and industrial firms. This course will cover the most used Microsoft applications such as windows operating systems, Microsoft office suite including: Microsoft Word, Excel, etc.

Art – Music & Drama

ART100 Principles of Drawing (3 credits) Basic introduction to drawing tools and instruments and the theories in the various areas of drawing dealing specifically with the human figure, nude, clothed and in relationship with a given spatial environment. The main issue is to familiarize students with a deeper conception of creative drawing and illustration using their own perception, logic and their ways of expression.

ART110 Painting I (3 credits) An introductory, theoretical and practical course looking at painting techniques and exploration of painted space. Interpretation on a two-dimensional plan, awareness of the expressive potential of the elements of arts in the creation of moods in various media.

ART105 Introduction to Music 3 credits) A general introductory course designed to enhance listening enjoyment and ability. Emphasis is placed on the elements of music, the characteristic styles of major historical periods, and the lives and works of key composers within the Oriental and Western musical traditions.

ART106 Performance (3 credits) Application of the principles of performing in TV and Film, Exercises in news reading announcing, interviewing, hosting TV programs, performing in commercials and acting in dramatic TV programs and films.

General Education Requirements

The General Education Requirements (GER), also known as the "University Requirements", is a set of courses totaling 26 credit hours that must be completed as a part of each undergraduate student degree program.

The General Education courses should include the following:

A. Language & Communication Skills **12crs**.
B. Business, Ethics & Humanities **7crs**.
C. Arts & Social Sciences **3crs**.
D. Science & Technology **3crs**.
E. Health & Physical Education **1cr**.

General Education Requirements			**26 credits**	**Prerequisite**
A1. GED English Requirements & Communications			**12 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
ENG	200	English Writing Skills II	3	ENG 020/022
ENG	201	English Rhetoric	3	ENG 200/ ENG 260
REM	308	Research Methodology	3	ENG 201
BUS	210	Business Communication & Present. Skills	3	REM308
A2. GED Mandatory			**7 credits**	
ENT 301 or BUS 201		Entrepreneurship or Foundation of Business	3	ENG 200
HUM212 or BUS 215 OR HUM 215		AUT Cultural Plus or Presentation Skills or Leadership & Empathy	1	
HUM 318		Human Rights	3	ENG 200
A3. GED Arts & Social Sciences			**3 credits**	
ART 205		Contemporary Arts	3	
ART 206		History of Art & Design	3	
POL 202		Globalization & Political Change	3	
SOC 201		Sociology	3	
PSY 201		Psychology	3	
COM 208		Introduction to Social Media	3	
HIS 200		History of Modern Lebanon	3	
HUM 211		Music Appreciation	3	
HUM 210		Arts Appreciation	3	
A4. GED Sciences			**3 credits**	
CSC	201	Introduction to Information Technology	3	
HLT	210	Health & Wellness	3	
NTR	201	Introduction to Nutrition	3	
A5. GED Professional Ethics			**1 credits**	
PED 201 or 203 or 209		Physical Education	1	

The General Education courses are listed below, and the student can choose the specific courses from the list when offered during the year:

- **Language & Communication:** English Language ENG (200,201) 6crs & 1 course REM 308 3crs and one course BUS 210 3crs = **12crs**.
- **Business, Ethics & Humanities:** (BUS 201 or ENT 301 3crs & HUM 318 3crs & (HUM 212 or BUS 215 or HUM 215) 1cr = **7crs**.
- **Arts & Social Sciences:** (ART 205 or ART 206 or HUM 210 or SOC 201 or COM 208 or HUM 211 or PSY 201 or POL 202 OR HIS 200) 3crs = **3crs**.
- **Science & Technology:** (HLT 210 or NLT 201 or CSC 201) = **3crs**.
- **Health & Physical Education:** PED (201 or 203 or 209) **1cr = 1cr**.

Course Descriptions

ART205 Contemporary Arts I (3 credits). This course consists of a comprehensive overview of Euro-American radical art and visual image-making, looking at aspects of the 20th century to the present day.

BUS201 Foundations in Business (3 credits). This course is a study of the business essentials principles and concepts, specifically its history and philosophy, in addition to the processes, decision-making, planning, organizing, actuating and controlling.

COM208 Introduction to Social Media (3 credits). This is the final phase of the core mandatory English language element for all students. It is designed to take a student to the practical business/academic arena, using technical terms within preparations of documentation to personal professional presentation itself.

ENG200 English Writing Skills (3 credits) is an advanced language course that includes listening, speaking and reading/writing. It covers the major components of effective communication in English. Students practice essay writing and are expected to participate in oral debates and presentations. By completing this course they should be able to fluently communicate in English, both orally and in writing.

Prerequisites: Placement

ENG 201 Rhetoric (3 credits) The purpose of this course is to explore the history of rhetorical thought, to help students interpret logical fallacies, analyze others' attempts to persuade in diverse fields, as: advertising, media, politics, law, and science. Students learn to think logically while speaking and writing, and construct their own arguments on controversial topics.

REM 308 Research Methodology (3 credits) This course provides students with practical skills in research design and execution. Students will learn how to formulate research questions, conduct literature reviews, and apply appropriate research methods to address real-world problems. The course covers both qualitative and quantitative approaches, emphasizing the importance of ethical research practices and effective data analysis. The course culminates in the submission of a research article or term paper, showcasing the student's ability to conduct independent research.

Prerequisites: ENG201

ENT301 Start-up Business Entrepreneurship (3 credits) Basic concepts of business start-up are introduced. Typical profiling of entrepreneurial business is analyzed, while essential components of the entrepreneurial spirit are highlighted. The basic definition of entrepreneurship is contrasted with the functions of management and of leadership. This course outlines the lifeline of a new business start-up, from dream to reality, passing through the necessary stages of fireproofing, expansion, crisis, bankruptcy, and exit. Fun and failure go hand in hand, while persistence and passion shape the personality of the entrepreneur. This course is intended as introduction to the topic of business start-up for all business students of all majors.

HLT210 Health and Wellness (3 credits) Covers diversified concepts including stress management, human sexuality, nutrition and exercise, disease prevention, alternative medicine, drug use and abuse, and a healthy environment.

HUM210 Arts Appreciation (3 credits) This course provides a comprehensive overview of the world of visual arts. It serves to enhance understanding and appreciation for a broad range of imagery, media, artists, movements and periods in history. This course illustrates the place of art in social and cultural life and encourages students to develop their critical judgment in art analysis and criticism. Students, familiarized with this basic core of information, thought, and experience, can become more confident in their visual literacy.

HUM211 Music Appreciation (3 credits) A general introductory course designed to enhance listening enjoyment and ability. Emphasis is placed on the elements of music, the characteristic styles of major historical periods, and the lives and works of key composers within the Oriental and Western musical traditions.

HUM212 AUT Cultural Plus (1 credit) This course is designed to improve observation skills for all the AUT students boosting their curiosity and adding to their culture. It aims to develop clear understanding of their future jobs and make them aware of and alert about the latest trends and development in the city. Through guest speakers, they will learn how to improve their presentations and their language

HUM318 Human Rights (3 credits) This course is designed to provide students with the opportunity to learn about the growing importance of human rights and their impact in the world today. Students examine a variety of issues related to human rights and broader contemporary trends related to human rights and business. The course helps students to understand the interrelationship between human rights and political, social and business development. Students will also gain an understanding of the existing international human rights standards and examine ways in which business and human rights intersect.

Prerequisites: ENG201

NTR201 Introduction to Nutrition (3 credits) An introduction to nutritional science, including food composition, food absorption and utilization, energy balance, special diets, and food technology.

Prerequisites: ENG201

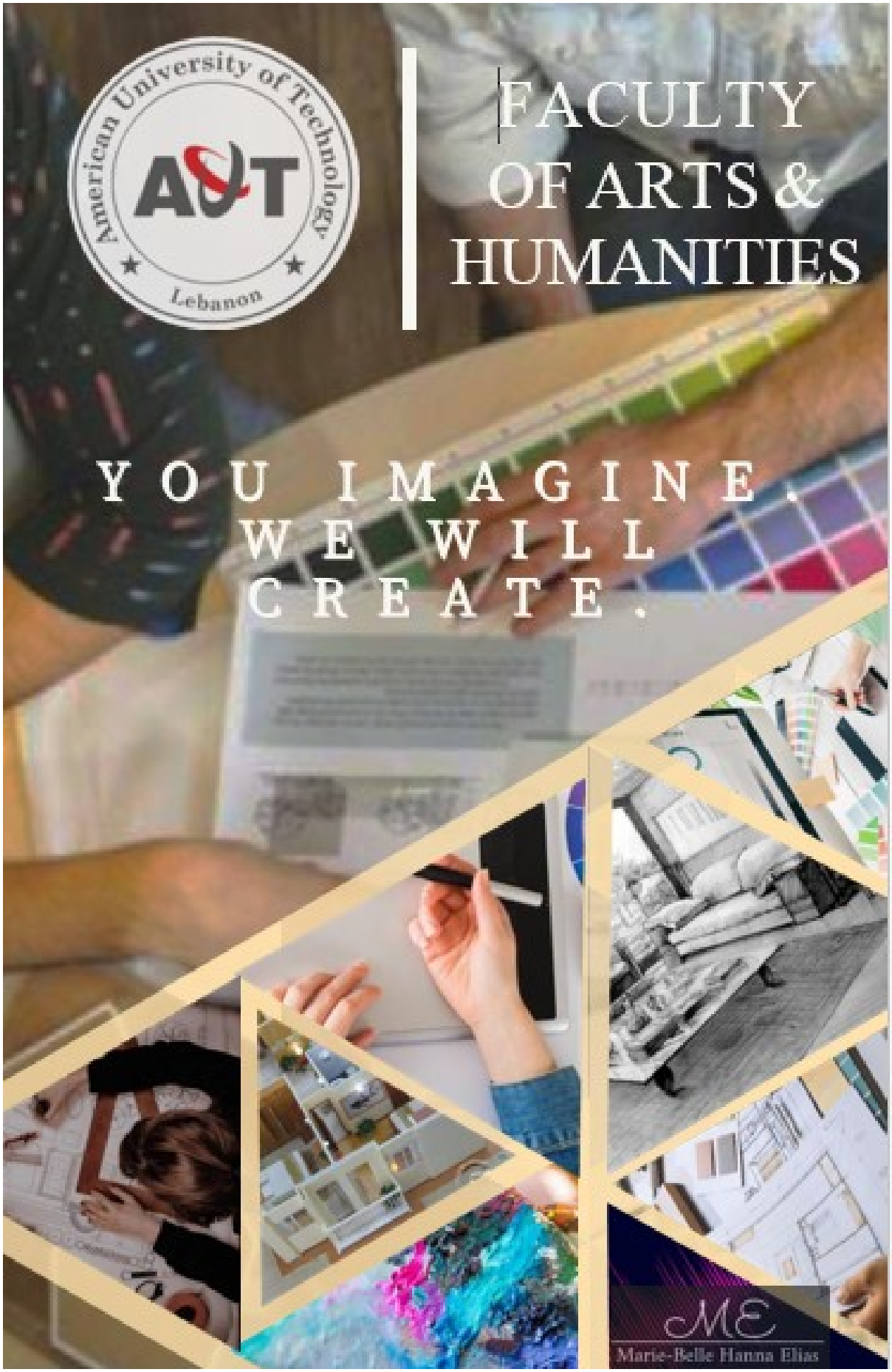
PED201 Basket Ball (1 credit) This one-hour credit course is designed to impart knowledge of the sport, leadership, loyalty, sportsmanship, and team play. The emphasis will be on learning both the tactical and technical aspects of the game of basketball. The purpose of this course is to provide students with the environment and opportunity to learn various offensive and defensive strategies and to teach the basic rules and regulations.

POL202 Global and Political Change (3 credits) This course introduces the phenomena of globalization. It examines its historic roots and the different views associated with its universal impacts. It examines how globalization is helping the integration of world culture, economies, and states.

Prerequisites: ENG200

SOC201 Justice, Society and Gender (3 credits) This class will explore political and legal institutions by investigating subjects such as the political constraints under which the law and society operates, the institutional competence of courts, the role of judges and ministers in the development of policy, the role of society in the interpretation of outcomes of the legal process, and the background and decision-making behavior of judges. Other topics will be examined to determine the roles of law, politics, and society in the development of the policies governing those issues.

Prerequisites: ENG201


American University of Technology
AUT
Lebanon
FACULTY OF ARTS & HUMANITIES
YOU IMAGINE.
WE WILL CREATE.
ME
Marie-Belle Hanna Elias

Faculty of Arts and Humanities

Mission Statement

The Faculty of Arts and Humanities (FAH) aims at developing students' knowledge, technical expertise, and artistic talent, as well as their creativity and critical thinking.

Degrees offered by the Faculty of Arts and Humanities

Bachelor of Arts (BA) in:

- Graphic Design 102 credits
- Graphic Design with concentration in Web Design 102 credits
- Interior Design 105 credits
- English Language and Literature 96 credits
- Translation & Communication 102 credits
- Audiovisual Arts 110 credits
- Journalism 101 credits
- Public Relations 99 credits

Department of Arts

Bachelor of Arts in Graphic Design

(102 credits)

Graphic design is visual communication. Graphic designers create visual ideas that inform and captivate.

Learning Outcomes

Graphic designer students combine art and technology to communicate ideas through text, images, and page layout. They make posters, advertisements, brochures, magazines, logos, book covers, billboards, websites…

Career Opportunities

Graphic design graduates work in advertising agencies, publishing houses, the printing industry, newspapers and magazines, and production houses. Experienced designers become chief designers and art or creative directors. They may also start their own graphic design house.

BA in Graphic Design (102 Credits)

General Education Requirements			**26 credits**	**Prerequisite**
Core Requirement			**18 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
ART	200	Drawing & Illustration I	3	
ART	201	Drawing & Illustration II	3	ART200
ART	301	Theories of Imaging	3	
DES	201	Fundamentals of Design I	3	
DES	211	Fundamentals of Design II	3	DES201
MAT	261	Visual Math for Arts	3	
Major Core Requirements			**31 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
ART	206	History of Art and Design	3	
COM	206	Principles of Photography	3	
GDP	200	Typography & Calligraphy	3	ART201
GDP	211	Graphic Design I	3	Co. GDP200, ART201
GDP	215	Computer Software (I) for the visual	3	
GDP	300	Page Layout and Design	3	GDP211
GDP	310	Computer Software (II) for the visual	3	
GDP	330	Visual Narratives	3	Co. GDP211
ART	355	Animation	3	GDP310
MKT	201	Marketing Principles	3	ENG200
DES	410	Professional Practice	1	Senior Standing
Emphasis Requirements - Graphic Design			**24 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
GDP	225	Graphic Design II	4	GDP211
DES	311	Copywriting	3	Co. GDP211
GDP	325	Package / Product Design	3	GDP211
ART	400	Special Topics	3	ART201
GDP	435	Printing Variables	3	GDP211
GDP	490	Senior Project I	4	GDP225
GDP	491	Senior Project II	4	GDP490
Free Elective (200 level or above)			**3 credits**	

Bachelor of Arts in Graphic Design – Proposed Sequence of Study

(102 Credits)

First Year

Semester	Course #	Title	Credits	Prerequisite
Fall	ENG200	English Writing Skills II	3	
	DES201	Fundamentals of Design I	3	
	ART200	Drawing and Illustration I	3	
	COM206	Principles of Photography	3	
		General Education Course	3	
		Total	**15**	
Spring	ENG201	Rhetoric	3	ENG200
	DES211	Fundamentals of Design II	3	DES201
	ART201	Drawing and Illustration II	3	ART200
	GDP215	Computer Software I for the visual	3	Co. GDP200, ART201
	MAT261	Visual Math for Arts	3	
		Total	**15**	
Summer	BUS210	Business Communication Skills	3	REM308
		Elective	3	
	BUS215	Business Presentation Skills	1	Co. BUS210
		Total	**7**	

Second Year

Semester	Course #	Title	Credits	Prerequisite
Fall	GDP310	Computer Software II for the visual	3	
	ART206	History of Art and Design	3	
	GDP200	Typography & Calligraphy	3	ART201
	GDP211	Graphic Design I	3	Co. GDP200, ART201
	ART301	Theories of Imaging	3	
		Total	**15**	
Spring	GDP225	Graphic Design II	4	GDP211
	GDP300	Page Layout & Design	3	GDP211
	DES311	Copywriting	3	Co. GDP211
	ART355	Animation	3	GDP310
	GDP325	Package / Product Design	3	GDP211
		Total	**16**	
Summer	BUS201	Foundations in Business	3	
	PED….	Physical Education	1	
		Total	**4**	

Third Year

Semester	Course #	Title	Credits	Prerequisite
Fall		General Education Course	3	ENG200
	GDP330	Visual Narratives	3	Co. GDP211
	GDP435	Printing Variables	3	GDP211
	GDP490	Senior Project I	4	GDP225
	HUM318	Human Rights	3	ENG200
		Total	**16**	
Spring	MKT201	Marketing Principles	3	ENG200
	ART400	Special Topics	3	ART201
	DES410	Professional Practice for Graphic Design	1	Senior Standing
	GDP491	Senior Project II	4	GDP490
	REM308	Research Methodology	3	ENG201
		Total	**14**	

Bachelor of Arts in Graphic Design Concentration: Web Design

(102 Credits)

General Education Requirements			26 credits	Prerequisite
Core Requirement			**18 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
ART	200	Drawing & Illustration I	3	
ART	201	Drawing & Illustration II	3	ART200
ART	301	Theories of Imaging	3	
DES	201	Fundamentals of Design I	3	
DES	211	Fundamentals of Design II	3	DES201
MAT	261	Visual Math for Arts	3	
Major Core Requirements			**31 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
ART	206	History of Art and Design	3	
GDP	200	Typography & Calligraphy	3	ART201
GDP	211	Graphic Design I	3	Co. GDP200, ART201
GDP	215	Computer Software (I) for the visual	3	
GDP	300	Page Layout and Design	3	GDP211
GDP	310	Computer Software (II) for the visual	3	
GDP	330	Visual Narratives	3	Co. GDP211
MKT	201	Marketing Principles	3	ENG200
ART	355	Animation	3	GDP310
COM	206	Principles of Photography	3	
DES	410	Professional Practice	1	Senior Standing
Emphasis Requirements - Web Design			**24 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
WED	200	Web Design I	3	Co. GDP200
WED	203	Web Integration	3	
WED	201	Web Design II	3	WED200
WED	202	Web Animation	3	GDP310
WED	302	Web Technology	4	WED203
WED	401	Senior Project I	4	Co. WED201
WED	402	Senior Project II	4	WED401
Free Elective (200 level or above)			**3 credits**	

Bachelor of Arts in Interior Design

(105 credits)

Interior designers are trained professionals who create functional and quality interior environments. They work with clients to develop design solutions that are functional, safe, and attractive.

Learning Outcomes

Interior design students learn design theory and apply it to interior design situations. They learn how to plan a space, and how to present the plan visually to the client. They learn about the materials to be used, and how texture, color, lighting, and many other technical aspects combine to make the space come together.

Career Opportunities

Interior design graduates design private homes and public spaces such as offices, restaurants, malls, museums, hospitals, beach resorts, and other. In addition to interior decoration, they work in furniture design, landscape design, and product design.

BA in Interior Design(105 Credits)

General Education Requirements			**26 credits**	**Prerequisite**
Core Requirements			**18 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
ART	200	Drawing & Illustration I	3	
ART	201	Drawing & Illustration II	3	ART200
ART	301	Theories of Imaging	3	
DES	201	Fundamentals of Design I	3	
DES	211	Fundamentals of Design II	3	DES 201
MAT	261	Visual Math for Arts	3	
Major Course Requirements			**58 credits**	Grade (C or higher in every Major Course)
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
IDP	215	Architectural Drawing	3	
IDP	250	Rendering and Perspective	3	IDP215
IDP	290	Design Project I	4	
IDP	291	Design Project II	4	IDP290
IDP	310	History of Architecture and Furniture I	3	
IDP	315	Computer Aided Design	3	
IDP	320	Materials and Process	3	
IDP	330	History of Architecture and Furniture II	3	IDP310
IDP	335	Problem Solving for Design & Present Tech	3	
IDP	340	Details and Manufacturing Techniques	3	
IDP	345	Virtual Reality / 3D MAX	3	IDP315
IDP	390	Design Project III	4	IDP291
IDP	391	Design Project IV	4	IDP390
IDP	410	Digital Presentation	3	
IDP	420	Professional Practice	1	
IDP	490	Senior Project I	4	IDP391
IDP	491	Senior Project II	4	IDP490
IDP	445	Advanced Virtual Reality	3	IDP345
Free Elective (200 level or above)			**3 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
ART	210	Painting I	3	
ART	211	Painting II	3	
ART	230	Sculpture	3	
ART	355	Animation	3	
ART	400	Special Topics	3	
DES	350	Design for the Stage	3	Junior Standing
COM	206	Principles of Photography	3	
DES	360	Advanced Photography	3	COM206

Bachelor of Arts in Interior Design – Proposed Sequence of Study

(105 Credits)

First Year

Semester	Course #	Title	Credits	Prerequisite
Fall	ENG200	English Writing Skills	3	
	DES201	Fundamentals of Design I	3	
	ART200	Drawing & Illustration I	3	
	IDP215	Architectural Drawing	3	
	IDP290	Design Project I	4	
		Total	**16**	
Spring	ENG201	English Rhetoric	3	ENG200
	DES211	Fundamentals of Design II	3	DES201
	ART201	Drawing & Illustration II	3	ART200
	IDP250	Rendering and Perspective	3	IDP215
	IDP291	Design Project II	4	IDP290
		Total	**16**	
Summer	REM308	Research Methodology	3	ENG201
	HUM318	Human Rights	3	ENG200
		Total	**6**	

Second Year

Semester	Course #	Title	Credits	Prerequisite
Fall	ART301	Theories of Imaging	3	
	IDP310	History of Architecture & Furniture I	3	
	IDP315	Computer Aided Design	3	
	IDP320	Materials & Process	3	
	IDP390	Design Project III	4	IDP291
		Total	**16**	
Spring	BUS210	Business Communication & Present. Skills	3	REM308
	IDP330	History of Architecture & Furniture II	3	IDP310
	IDP410	Digital Presentation	3	
	IDP345	Virtual Reality / 3D MAX	3	IDP315
	IDP391	Design Project IV	4	IDP390
		Total	**16**	
Summer	HUM 210	Arts Appreciation	3	
		Elective	3	
		Total	**6**	

Third Year

Semester	Course #	Title	Credits	Prerequisite
Fall	IDP340	Details & Manufacture Tech.	3	
	IDP335	Problem Solving for Design & Presentation Skills	3	
	IDP445	Advanced Virtual Reality	3	IDP345
	IDP490	Senior Project I	4	IDP391
	BUS201	Foundations in Business	3	
		Total	**16**	
Spring	MAT261	Visual Math for Arts	3	
	IDP420	Professional Practice	1	
	IDP491	Senior Project II	4	IDP490
	HLT210	Health & Wellness	3	
	PED….	Physical Education	1	
	HUM212	AUT Cultural Plus	1	
		Total	**13**	

Department of Communication

Bachelor of Communication in Journalism

(101 credits)

The major prepares students to become successful professionals in broadcast and print journalism.

Learning Outcomes

Journalism students acquire the ability to communicate in a clear and persuasive manner. They achieve competence in written and visual communication. They learn to disseminate messages through multiple media platforms and are familiar with the latest technologies.

Career Opportunities

Journalism graduates can become newspaper/magazine/website editors, writers, political analysts, broadcast journalists (TV, radio, and websites), social media specialists, political consultants, public relations specialists, communication directors.

Bachelor of Communication in Journalism (101 Credits)

General Education Requirements			**26 credits**	
Core Requirements all COM Majors			**18 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
AVP	200	Principles of Visual Communication	3	Co. ENG200
AVP	201	Audio Visual Workshop	3	
ART	355	Animation	3	
COM	206	Principles of Photography	3	
COM	207	Performance for TV & Film	3	
COM	365	Media Law & Ethics	3	ENG201
Major Course Requirements			**54 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
ARA	201	Arabic Communication Skills I	3	
AVP	204	Audio and Video Workshop[7]	3	
COM	205	News Writing and Reporting	3	ENG103 (co) ENG260 (co), or ENG200 (co)
COM	220	Public Relations	3	ENG200 (co) or ENG260 (co)
COM	251	Communication Media & Society	3	
COM	311	Media and Politics	3	ENG201, ENG203, or REM308
COM	315	Topics in Communications	3	
COM	316	Writing for Broadcast Media	3	ENG201
COM	325	Feature and Magazine Writing	3	ENG200
COM	353	Photojournalism	3	COM206
COM	405	Newspaper Editing and Layout	3	ENG201, ENG203, or ENG280
COM	410	Professional and Public Speaking	3	ENG200
COM	425	Media in Lebanon & Middle East	3	ENG201
COM	498	Internship	3	Senior Standing
COM	499	Senior Study / Project	3	Senior Standing
JRN	340	Data Journalism	3	ENG201
HIS	200	History of Modern Lebanon	3	
POL	202	Globalization & Political Change	3	ENG200
Required Language Elective (any language not ENG or ARA)			**3 credits**	

[7] COM204, Intro to Radio, TV & Film is a substitute to AVP204

Bachelor of Communication in Journalism – Proposed Sequence of Studies

(101 Credits)

First Year

Semester	Course #	Title	Credits	
Fall	AVP200	Principles of Visual Communication	3	
	COM206	Principles of Photography	3	
	COM251	Communication Media & Society	3	
	HIS200	History of Modern Lebanon	3	
	ENG200	English Writing Skills	3	
		Total	**15**	
Spring	ART355	Animation	3	GPD310
	COM365	Media Law & Ethics	3	ENG201
	COM425	Media in Lebanon & Middle East	3	ENG201
	AVP204	Audio and Video Workshop	3	
	ENG201	English Rhetoric	3	ENG200
		Total	**15**	
Summer	BUS210	Business Communication skills	3	REM308
		General Education Requirement	1	
		Total	**4**	

Second Year

Semester	Course #	Title	Credits	Prerequisites
Fall	AVP201	Audio Visual Workshop I	3	
	ARA201	Arabic Communication Skills I	3	
	POL202	Globalization & Political Change	3	ENG200
	COM315	Topics in Communications	3	
	REM308	Research Methodology	3	ENG201
		Total	**15**	
Spring	COM311	Media and Politics	3	ENG201
	COM316	Writing for Broadcast Media	3	ENG201
	COM325	Feature and Magazine Writing	3	ENG200
	COM207	Performance for TV & Film	3	
		General Education Requirement	3	
		Total	**15**	
Summer		General Education Requirement	3	
		General Education Requirement	1	
		Total	**4**	

Third Year

Semester	Course #	Title	Credits	Prerequisites
Fall	COM410	Professional and Public Speaking	3	ENG200
	COM220	Public Relations	3	ENG200 (co) or ENG260 (co)
	JRN340	Data Journalism	3	ENG201
	COM405	Newspaper Editing and Layout	3	
		General Education Requirement	1	
		General Education Requirement	2	
		Total	**15**	
Spring	COM353	Photojournalism	3	COM206
	COM498	Internship	3	Senior Standing
	COM499	Senior Study / Project	3	Senior Standing
		Required Language Elective	3	
		General Education Requirement	3	
		Total	**15**	
Summer		Major Elective	3	
		Total	**3**	

Bachelor of Communication in Public Relations

(99 credits)

Public relations is the art of providing information about a particular person or organization so that people will regard that person or organization in a favorable way. Public relations professionals build, through effective communication, a positive image for their client.

Learning Outcomes

Public relations students develop their communication skills. They learn strategic planning for public relations, and how to write news releases, organize events, produce content for social media, offer media training, and respond to the media in the event of a crisis.

Career Opportunities

Public relations graduates can become public relations specialists, communication directors, event organizers, social media specialists, brand ambassadors, publicists, copywriters, marketing analysts, digital marketing managers, sales representatives.

Bachelor of Communication in Public Relations (99 Credits)

General Education Requirements			**26 credits**	**Prerequisites**
Major Core Requirements			**40 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
ARA	201	Arabic Communication Skills I	3	
BUS	230	Business Law	3	
COM	251	Communication Media & Society	3	
COM	325	News Writing and Reporting	3	
COM	410	Professional and Public Speaking	3	
COM	425	Media in Lebanon & Middle East	3	
ENT	301	Start-up Business Entrepreneurship	3	
FIN	220	Finance for Non-Financial Majors	3	
MGT	201	Management Principles	3	ENG200
MKT	201	Marketing Principles	3	ENG200
MKT	340	Advertising Principles	3	
MKT	412	Customer Security	3	
MKT	450	Integrated Advertising Communication	3	MKT340
BUS	491	Internship	1	Senior Standing

Specialization Course Requirements			**24 credits**	Grade must be C or higher in every major course
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
PUR	220	Foundations of Public Relations	3	ENG200
PUR	240	Public Relations Project Management	3	PUR220
PUR	309	Public Relations Campaign	3	PUR220
PUR	310	Rhetoric and Social Influence	3	PUR220, ENG200
PUR	357	Special Events Planning	3	PUR220
PUR	406	Public Relations Research	3	PUR220
PUR	408	Writing for Public Relations	3	PUR220
PUR	497	Special Topics in Public Relations	3	PUR220

Foreign Language	**3 credits**	
Free Elective (200 level or above)	**6 credits**	

Bachelor of Communication in Public Relations – Proposed Sequence of Study

(99 Credits)

First Year

Semester		Title	Credits	Prerequisites
Fall	ENG200	English Writing Skills	3	
	ARA201	Arabic Communication Skills I	3	
	COM251	Communication Media & Society	3	
	MKT201	Marketing Principles	3	ENG200
	HUM212	AUT Cultural Plus	1	
	POL202	Globalization & Political Change	3	ENG200
		Total	**16**	
Spring	ENG201	Rhetoric	3	ENG200
	BUS230	Business Law	3	
	BUS210	Business Communication Skills	3	Co: ENG 201
	FIN220	Finance for Non-Financial Majors	3	
	PUR220	Foundations of Public Relations	3	ENG200
		Total	**15**	

Second Year

Semester		Title	Credits	Prerequisites
Fall	REM308	Research Methodology	3	ENG 201
	COM325	News Writing and Reporting	3	
	MKT340	Advertising Principles	3	
	PUR309	Public Relations Campaign	3	PUR220
	PUR240	Public Relations Project Management	3	PUR220
	MGT201	Management Principles	3	ENG200
		Total	**18**	
Spring		General Education Course	3	
	PUR310	Rhetoric and Social Influence	3	PUR220, ENG200
	PUR410	Professional and Public Speaking	3	
	ENT301	Start-up Business Entrepreneurship	3	
	PUR357	Special Events Planning	3	PUR220
	PED201	Physical Education I	1	
		Total	**16**	

Third Year

Semester		Title	Credits	Prerequisites
Fall	BUS201	Foundations in Business	3	
	MKT412	Customer Security	3	
	COM425	Media in Lebanon & Middle East	3	
	MKT450	Integrated Advertising Communication	3	MKT340
	PUR408	Writing for Public Relations	3	PUR220
		Free Elective	3	
		Total	**18**	
Spring	BUS491	Internship	1	Senior Standing
		Foreign Language	3	
	HUM318	Human Rights	3	ENG200
	PUR406	Public Relations Research	3	PUR220
	PUR498	Special Topics in Public Relations	3	PUR220
		Free Elective	3	
		Total	**16**	

Bachelor of Communication in Audio Visual Arts

(110 credits)

The program of Audio-Visual Arts currently offers a complete study in the science of film/TV production with a strong grounding in media study. Students will engage with theory and practice regarding production of both sound and image, in the service of telling great stories of cultural and aesthetic significance.

Learning Outcomes

Students experience the full process of production, from conceptualizing a project, writing a viable script and executing that script using their knowledge and skills in all the technical and intellectual domains needed to realize a film project, a documentary, a short film, an art film or any kind of related expression. The latest equipment are available to support and strengthen the students' hands-on experience and give them the confidence they need to excel in their career.

Career Opportunities

This international program will get our students ready to join this booming audiovisual market and have their mark in the film and TV industry in Lebanon, the Arab countries and the world. They can be editors, scriptwriters, directors of photography, sound engineers, producers and even directors.

Bachelor of Communication in Audio/Visual(110 Credits)

General Education Requirements			**26 credits**	**Prerequisites**
Core Requirements for all COM majors			**18 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
COM	365	Media Law & Ethics	3	ENG200
COM	206	Principles of Photography	3	
COM	207	Performance for TV & Film	3	
AVP	200	Principles of Visual Communications	3	
AVP	209	Principles of Video Editing	3	
AVP	225	Principles of Storytelling	3	
Major course requirements			**39 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
AVP	255	Principles of Lighting	3	
DES	350	design for stage	3	
AVP	206	Principles of Directing	3	
AVP	211	Audio Editing	3	
AVP	306	Advanced Editing	3	AVP209
AVP	212	Field Recording	3	
AVP	205	TV production I	3	AVP211, AVP209
AVP	320	Directing Actors	3	
AVP	303	Sound Design	3	AVP211
AVP	411	Production, Legal and Finances	3	
AVP	460	Professional Practice	1	
AVP	490	Senior I	4	FLM213, FLM304, AVP306
AVP	491	Senior II	4	AVP490, FLM322, FLM210
Emphasis for Film			**24 credits**	**Grade C or higher in every major Course**
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
FLM	203	Film History I	3	
FLM	205	Principles of Cinematography	3	COM206; ENG200(co)
FLM	207	Film History II	3	FLM203
FLM	210	Directing a Short Movie	3	AVP211, COM209, AVP205
FLM	213	Advanced Cinematography	3	FLM205
FLM	222	Film Analysis	3	Co. ENG200
FLM	304	Scriptwriting for Film	3	AVP225, ENG200
FLM	322	Directing a Documentary Film	3	AVP225
Major Elective			**3 credits**	
AVP	290	Special Topics in Film or Film Production	3	
COM	251	Communication Media & Society	3	

Bachelor of Communication in Audio/Visual – Proposed Sequence of Studies

(110 credits)

First Year

Semester	Course #	Title	Credits	Prerequisites
Fall	AVP209	Principles of Video Editing	3	
	AVP225	Principles of Storytelling	3	
	FLM203	Film History I	3	
	ENG200	English Writing Skills	3	
	AVP255	Principles of Lighting	3	
		Total	**15**	
Spring	COM206	Principles of Photography	3	
	AVP212	Field Recording	3	
	COM207	Performance for TV & Film	3	
	ART205	Contemporary art	3	
	ENG201	Rhetoric	3	ENG200
		Total	**15**	
Summer	BUS210	Business Communication Skills	3	
	BUS215	Business Presentation Skills	1	Co. BUS210
	PED…	Physical Education	1	
		Total	**5**	

Second Year

Semester	Course #	Title	Credits	Prerequisites
Fall	DES350	Design for stage	3	
	AVP206	Principles of Directing	3	
	AVP211	Audio Editing	3	
	AVP306	Advanced Editing	3	AVP209
	BUS201	Foundations of Business	3	
		Total	**15**	
Spring	REM308	Research Methodology	3	ENG 201
	FLM304	Scriptwriting for Film	3	
	FLM205	Principles of Cinematography	3	COM206; ENG200(co)
	AVP200	Principles of Visual Communications	3	
	FLM207	Film History II	3	FLM203
		Total	**15**	
Summer		Free Elective	3	
		Total	**3**	

Third Year

Semester	Course #	Title	Credits	Prerequisites
Fall	AVP303	Sound Design	3	AVP211
	AVP411	Production Legal and Finances	3	
	AVP320	Directing Actors	3	
	AVP205	TV production I	3	AVP205, AVP209, AVP211
	COM210	Communication & Presentation Skills	3	
	AVP460	Professional Practice	1	
		Total	**16**	
Spring	FLM213	Advanced Cinematography	3	FLM205
	FLM322	Directing a Documentary Film	3	AVP205, AVP209, AVP211
	FLM210	Directing a Short Movie	3	AVP205, AVP209, AVP211
	HUM318	Human Rights	3	ENG200
	AVP490	Senior I	4	FLM213, FLM304, AVP306
		Total	**16**	

Fourth Year

Semester	Course #	Title	Credits	Prerequisites
Fall	AVP491	Senior II	4	AVP490, FLM322, FLM210
	COM365	Media LAW & Ethics	3	
	FLM222	Film Analysis	3	Co. ENG200
		Total	**10**	

Department of Humanities

Bachelor of Arts in English Language and Literature

(96 credits)

The study of English language and literature is crucial as it develops essential skills needed for jobs that are in high demand today.

Learning Outcomes

Language courses improve students' communication skills and help them speak and write effectively and in a persuasive manner. Literature courses (in British, American, and contemporary literature) introduce students to a rich and vivid cultural heritage and to a variety of literary genres: prose, poetry, drama, that enrich their language as well.

Career Opportunities

Holding a degree in English Language and Literature opens many job opportunities such as English language and literature teachers, educational consultants, writers, editors in newspapers, magazines, broadcast news, journals and publishing houses, researchers, and social media managers.

BA in English Language and Literature (96 Credits)

A. General Education Requirements (Restricted set of courses required by AUT)			**26**	
B. Major Core Requirements (Grade must be C or more in every major course) •			**64**	
Course	**NB**	**Course Title**	**Credits**	**Prerequisite(s) or Co-Requisites**
ENG	202	Introduction to literary Genres	3	ENG280/ENG201
ENG	207	Morphology and Syntax	3	ENG280/ENG201
ENG	220	Phonetics	3	ENG225
ENG	225	Modern English Grammar	3	ENG280/ENG201
ENG	230	Applied Linguistics	3	ENG225
ENG	294	Introduction to teaching	3	ENG280/ENG201
ENG	215	Semantics	3	ENG280/ENG201
ENG	316	Creative Writing	3	ENG280/ENG201
ENG	322	Teaching EL as a foreign language	3	ENG 294
ENG	324	Planning-Evaluation-Class Management	3	ENG 294
ENG	330	Literary Criticism	3	ENG 202
ENG	331	Curriculum and instruction in English Education	3	ENG 294
ENG	334	English Language Teaching Methodology	3	ENG 294
ENG	400	British Romantic and Victorian lit.	3	ENG202
ENG	405	19th Century English Novel	3	ENG 202
ENG	410	Modern Drama	3	ENG 202
ENG	440	American 20th Century Lit.	3	ENG 202
ENG	445	Feminist lit.	3	ENG 225
ENG	450	Early 20th Century Poetry	3	ENG 294
ENG	455	The Age of Modernism	3	ENG 202
ENG	460	Post-Colonial Anglophone Literatures	3	ENG 202
A. **Two Courses Free Elective (200 level or above)**			**6**	
Required Total Credits to BA in English Language			**96**	

Bachelor of Arts in English Language Proposed Sequence of Study (96 Credits)

First Year

	Course Code/No	Course Title	Credits	(Pre- or Co-Req)
Fall	ENG200	English Writing Skills II **(GER)**	3	ENG020/022
	ENG202	Introduction to Literary Genres	3	ENG200/ENG260
	ENG230	Applied Linguistics	3	
	SCIENCE COURSE	Course **(GER)**	3	
		TOTAL	**12**	
Spring	ENG201	English Rhetoric **(GER)**	3	ENG200/ENG260
	ART205 or GER	Contemporary Arts or Social Science **(GER)**	3	
	ENG207	Morphology and Syntax	3	
	ENG220	Phonetics	3	
	ELECTIVE COURSE		3	
		TOTAL	**15**	
Summer	PED	Health & Physical Education **(GER)**	1	
	ENT301 or BUS201	Startup Entrepreneurship Or Bus Pres Skills **(GER)**	3	
		TOTAL	**4**	

Second Year

	Course Code/No	Course Title	Credits	(Pre- or Co-Req)
Fall	ENG215	SEMANTICS	3	ENG200/ENG260
	REM308	Research Methodology	3	ENG201/ENG280
	ENG316	Creative Writing	3	ENG200/ENG260
	HUM212/BUS215	AUT Cultural Plus	1	ENG200/ENG260
	ENG225	Modern English Grammar	3	ENG200/ENG260
		TOTAL	**13**	
Spring	ENG294	Introduction to teaching	3	ENG200/ENG260
	ENG322	Teaching EL as a foreign language	3	ENG294
	HUM318	Human Rights **(GER)**	3	
	ENG330	Literary Criticism	3	ENG202
	ENG324	Planning-Evaluation-Class Management	3	ENG294
		TOTAL	**15**	
Summer	BUS210	Business Communication **(GER)**	3	REM308
	elective course		3	
		TOTAL	**6**	

Third Year

	Course Code/No	Course Title	Credits	(Pre- or Co-Req)
Fall	ENG331	Curriculum and instruction in English Education	3	ENG294
	ENG332	Internship	1	ENG202
	ENG334	English Language Teaching Methodology	3	ENG294
	ENG400	British Romantic and Victorian lit.	3	ENG202
	ENG405	19th Century English Novel	3	ENG202
	ENG410	Modern Drama	3	ENG202
		TOTAL	**16**	
Spring	ENG440	American 20th Century Lit.	3	ENG202
	ENG445	Feminist lit.	3	ENG225
	ENG450	Early 20th Century Poetry	3	ENG294
	ENG455	The Age of Modernism	3	ENG202
	ENG460	Post-Colonial Anglophone Literatures	3	ENG202
		TOTAL	**15**	
		Total Crs.to BA in English Language & Literature	**96**	

Bachelor of Arts in Translation & Communication

(102 Credits)

Students are introduced to the theory and practice of translation and are thoroughly prepared for a career in translation.

Learning Outcomes

Students get an excellent command of their working languages, and they will be able to perform both translation and interpretation in three languages: Arabic, English, and French.

Career Opportunities

Graduates in Translation can become certified sworn translators. They can also work in NGOs, international organizations, diplomatic missions, translation offices, law offices, legal courts, print and web-based media, TV and cinema, teaching in schools, travel agencies.

Bachelor of Arts in Translation (102 Credits)

General Education Requirements			**26 credits**	**Prerequisites**
Major Core Requirements			**76 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
TRA	201	Arabic for Translators	3	
TRA	202	French for Translators	3	
TRA	203	English for Translators	3	
TRA	211	General Translation I A-B/B-A	3	TRA201, TRA202
ACT	230	Actualities in the Arab World	3	
ACT	330	Actualities	3	
BUS	305	Introduction to Business	3	
DRT	310	Introduction to Law (A)	3	
DRT	311	Introduction au Droit (B)	3	
TRA	301	Introduction to Documentary Research	3	
TRA	310	Translation Principles	3	
TRA	311	General Translation II A-B/B-A	3	TRA211
TRA	312	General Translation III A-C/C-A	3	
TRA	313	Media Translation	3	TRA202, TRA203
TRA	331	Expression Techniques in Arabic	3	
TRA	332	Expression Techniques in French	3	
TRA	410	English Morphology and Syntax	3	ENG201
TRA	413	Advanced Translation A-B/B-A	**3**	TRA311
TRA	415	Advanced Translation A-C/C-A	3	TRA312
TRA	430	Traduction Juridique A-B/B-A	3	DRT310, DRT311
TRA	450	Translation of Business Texts A-C/C-A	3	BUS305
TRA	460	Computer Assisted Translation	3	CSC201
TRA	466	Conference Translation A, B, C	3	
TRA	470	Medical Translation A, B, C	3	HLT210, NTR201
TRA	474	Practicum	4	

Bachelor of Arts in Translation – Proposed Sequence of Study

(102 Credits)

First Year

Term	Course #	Title	Credits	Prerequisites
Fall	TRA201	Arabic for Translators	3	
	ENG200	English Writing Skills	3	
	BUS201	Foundation in Business	3	
	HLT210	Health and Wellness	3	
		General Education Course	3	
		Total	**15**	
Spring	TRA202	French for Translators	3	
	TRA203	English for Translators	3	
	ENG201	Rhetoric	3	ENG200
	TRA211	General Translation I A-B/B-A	3	TRA201, TRA202
	ACT230	Actualities in the Arab World	3	
		Total	**15**	
Summer	REM308	Research Methodology	3	
	HUM212	AUT Cultural Plus	1	
		Total	**4**	

Second Year

Term	Course #	Title	Credits	Prerequisites
Fall	TRA301	Introduction to Documentary Research	3	
	DRT310	Introduction to Law (A)	3	
	TRA310	Translation Principles	3	
	TRA311	General Translation II A-B/B-A	3	TRA211
	BUS210	Business Communication Skills	3	
		Total	**15**	
Spring	BUS305	Introduction to Business	3	
	DRT311	Introduction au Droit (B)	3	
	TRA312	General Translation III A-C/C-A	3	
	ACT330	Actualities	3	
	TRA331	Expression Techniques in Arabic	3	
	TRA332	Expression Techniques in French	3	
		Total	**18**	
Summer	HUM318	Human Rights	3	
	PED…	Physical Education	1	
		Total	**4**	

Third Year

Term	Course #	Title	Credits	Prerequisites
Fall	TRA410	English Morphology and Syntax	3	ENG201
	TRA313	Media Translation	3	TRA202, TRA203
	TRA413	Advanced Translation A-B/B-A	3	TRA311
	TRA430	Traduction Juridique A-B/B-A	3	DRT310, DRT311
	TRA460	Computer Assisted Translation	3	CSC201
		Total	**15**	
Spring	TRA415	Advanced Translation A-C/C-A	3	TRA312
	TRA450	Translation of Business Texts A-C/C-A	3	BUS305
	TRA466	Conference Translation A, B, C	3	
	TRA470	Medical Translation A, B, C	3	HLT210, NTR201
	TRA474	Practicum	4	
		Total	**16**	

Course Descriptions

ARA201 Arabic Communication Skills I (3 credits) This course is to allow students to read and understand scientific texts and draw differences between such texts and literary ones. Furthermore, this course should also allow students to practice writing skills. All this is meant to facilitate the study of subject matter related to technical specializations.

ART200 Drawing and Illustration I (3 credits) Basic introduction to drawing tools and instruments and the theoriesin the various areas of drawing dealing specifically with the human figure, nude, clothed and in relationship with a given spatial environment. The main issue is to familiarize students with a deeper conception of creative drawing and illustration using their own perception, logic and their ways of expression.

ART201 Drawing and Illustration II (3 credits) This studio and theory course is a continuation of Drawing I; it concentrates on the techniques of drawing, i.e., how to create 3D images on 2D surfaces using basic drawing techniques.

Prerequisites: ART200

ART205 Contemporary Arts I (3 credits) This course is a comprehensive overview of Euro-American radical art andvisual image making looking at aspects of the 20th century to the present.

ART206 History of Art and Design (3 credits) This course complements History of Art and Design I. It works backwards and looks at radical art from the late 19thcentury to the Renaissance.

ART210 Painting I (3 credits) An introductory, theoretical and practical course looking at painting techniques and exploration of painted space. Interpretation on a two-dimensional plan, awareness of the expressive potential of the elements of arts in the creation of moods in various media.

ART211 Painting II (3 credits) Builds on Painting I in terms of advanced studies in "Painting".

ART230 Sculpture (3 credits) This is an introductory course that develops a sense of three-dimensional structure and design. It helps students to become familiar with a variety of materials, and to transform the principles of design from 2-dimentional into 3-dimentional. This course will develop imaginative thinking and aesthetic sensibility in the students' mind to express and understand art in its social context.

ART301 Theories of Imaging (3 credits) This is an advanced course, where students develop their imaging skills by producing and understanding various visual aids used by art practitioners for the last two millennia including: theories and principles of colors, Plato's "shadows in the cave", the camera obscura, the camera Lucida, mirrors, flip books, pin-hole cameras, the zoetrope.

ART355 Animation (3 credits) An introduction to the techniques and practices of traditional and digital animated film production. The student will be trained in a wide variety of approaches to paint and draw animation: from storyboarding to the final product.

Prerequisites: GDP310

ART400 Special Topics (3 credits) The Art Forum is a program where invited guest speakers who might be artists, curators, designers, gallery owners or writers on art give a lecture to Arts students, sharing the experiences about the real world and the area of their expertise. Students are expected to analyze research and write about topics discussed by guest lecturers on a weekly basis.

Prerequisites: ART201

AVP200 Principles of Visual Communication (3 credits) This course is about visual images – how we see and interpret them, how they communicate to us, what they communicate, how they can be manipulated without our noticing, and how they can reflect and even shape cultural values".

Corequisites: ENG200

AVP201 Audio Visual Workshop I (3 credits) AVP201 is a complete introductory course that touches realistically every aspect of professional production, mixing both technical and artistic components. This hands-on workshop introduces students to the fundamentals of audio and visual production techniques used in creative and professional media projects. Through a combination of lectures, demonstrations, and practical exercises, students will explore in the workshop proposed key concepts whether in sound recording, video capturing, lighting, editing, and multimedia integration. Emphasis is placed on the development of technical skills, creative storytelling, and collaborative production workflows.

AVP204 Audio and Visual Workshop (3 credits) In this course, students will learn the names and functions of all the equipment used in filming: camera structure and functioning, different types of lighting, projectors, reflectors, filters… They will also be introduced to the basic audio techniques. Through the screening of different cinematic sequences, students will be initiated to camera language and film aesthetics.

AVP206 Principles of Directing (3 credits) The aim of this course is to introduce the tasks of the film director and the choices at his or her disposal in order to visually translate the written word into motion picture. Students will learn to identify and differentiate among different visual techniques which shape the mood and tone of a film, and their effect on the viewer. Moreover, they will learn to recognize and analyze the role of each production department.

Corequisites: FLM205

AVP209 Principles of Video Editing (3 credits) This course familiarizes students with the basic editing techniques, as well as the fundamental editing theories. At the end of the course, students are expected to be able to fully edit an audiovisual sequence, following a correct editing plan while taking into consideration the aesthetical and rhythmic aspects of the sequence.

Prerequisites: AVP200

AVP211 Audio-Editing (3 credits) This course introduces students to the theories, practices, and tools used in digital audio production and techniques of non-linear editing, focusing on the fundamental theories and concepts behind various types of digital audio tools. Through lectures and in-class projects, students develop knowledge and skills needed to operate non-linear audio workstations.

Prerequisites: AVP203

AVP212 Field recording (3 credits) Students are introduced to the equipment, techniques, protocols, and procedures used in on-site recording for film, and TV. Students participate in a location film/video shoot. Topics include power requirements and electrical noise, acoustic isolation and location mixing, audio post-production tools and processes, field and post synchronization, sampling sounds and environments, microphone placement, wireless microphones, communication, and audio processing in the field.

AVP225 Principles of Storytelling (3 credits) This course introduces students with techniques for conceiving and developing filmable stories. It surveys the history of plot structure and character development in classical myths, heroic epics, folk tales, and other forms, as well as some of the 'big themes' in great literature. Students learn how the enduring appeal and success of these literary forms can be adapted to the three-act structure of contemporary screenplays.

Prerequisites: ENG200

AVP255 Principles of Lighting (3 credits) This course introduces students to Principles of lighting provides a comprehensive introduction to the technical and creative use of camera and lights. Students will learn the key techniques, creative approaches and organizational skills involved in camera operation, and lighting. This will cover a range of areas from the technical basics of cinematography, taking full manual control of standard cameras, camera lighting for narrative or pack shots and more. Students will be given the chance to apply these skills in filmed scenarios to enhance their working knowledge of lighting.

Prerequisites: AVP200, FLM205.

AVP290 Special Topics in Film or Film Production (3 credits) The course offers different theoretical, methodological, or practical approaches to the study and/or practice of cinema, depending on need, and on faculty availability. This class may be repeated if topics differ.

Prerequisites: Senior Standing or Consent of Instructor.

AVP303 Sound Design (3 credits) Sound Design is the most critical part of audio postproduction. This course covers the fundamentals of sound design concept development, music selection, selection of sound effects, the whole process of creating, designing, and producing sound content for targeted audiences, and intended delivery systems.

AVP306 Advanced Editing (3 credits) This is an advanced course that allows the students to go further in the technical and artistic aspects of editing. In addition to fully exploring the different possibilities of non-linear editing and getting a deeper understanding of the theories behind the different editing styles, the students will start forming their own editing approach.

Prerequisites: AVP209

AVP307 Photography II (3 credits) In this course the students will further their understanding of the photographic techniques. They will learn how to manually develop, print and retouch silver photographs, as well as being introduced to the proper use of digital retouching softwares.

Prerequisites: COM206

AVP320 Directing Actors (3 credits) This course aims at introducing students to both the theory and the practice of directing actors for film. The students will have to put into application different approaches to acting as illustrated by the works of great masters of cinema.

Prerequisites: COM207

AVP411 Production Legal and Finances (3 credits) Throughout this course, students will understand the role and responsibilities of being a producer, while establishing a way of judging the artistic merit and economic possibilities of a film project at various stages, from inception to completion. Moreover, students will learn the infrastructures of companies in the Lebanese entertainment industry and understand how to effectively work within the laws and regulations in order to successfully produce content that can legally be distributed.

Corequisites: AVP490

AVP460 Professional Practice (1 credits) In this course, students are required to fulfill an internship in an audiovisual production company, television, etc.

AVP490 Senior I **(4 credits)** throughout this course student are expected to submit a fully comprehended script of their final film project, along with a portfolio that contains development and preproduction elements of this film.

Prerequisites: FLM210, FLM304

AVP491 Senior II (4 credits) In this final major course, students will have to present their final film which will be presented in front of an invited jury of critics and professionals from the film industry. The jury will decide on the success of failure of the student.

Prerequisites: AVP490

COM202 Culture and Communication (3 credits) This course is designed to introduce students to an interdisciplinary study of culture and communication. Students will learn how culture could emerge from individual experience and everyday interaction. By culture, we mean the entire set of socially transmitted beliefs, values, and practices that characterize a given society at a given time. These shared ideas and habits produce the concrete manifestations of a particular culture, its religious doctrines and ceremonies, its etiquette and cuisine, its politics and ways of speech. Culture provides a common understanding transcending immediate individual experience, a social reality to guide our actions.

COM206 Principles of Photography (3 credits) Students will learn about the basic techniques of the photographic art (lighting, composition, depth of field, white balance…). Through several studio and outdoor exercises / assignments, they will be invited to put into application the theoretical information they will have acquired in class. This course also aims at preparing the students for more advanced photography and cinematography courses.

COM207 Performance for TV and Film (3 credits) The objective of this course is to introduce students to different acting techniques (Relaxation, Concentration, Breathing, Speech…), while exploring dramatic expression and language. Students will learn how

to construct a character and evolve in the acting process through the application of the taught methods, and team interactions.

COM220 Public Relations (3 credits) This course offers the students an exploration of the principles and practices of public relations. Students will gain a comprehensive understanding of the role of PR in today's dynamic and interconnected world. The course will cover both theoretical concepts and practical applications to prepare students for a career in public relations.

Prerequisites: ENG200 (co) or ENG260 (co)

COM251 Communication Media & Society (3 credits) Studies forms of communication especially mass communication as elements of cultural and social processes.

COM311 Media and Politics (3 credits) This course is an overview and discussion of the relation between the mass media and politics in society. The mass media constitute one of the most powerful forces shaping the modern world. In terms of information dissemination, shaping of attitudes and mass behavior there has never been a medium with the reach, breadth and influence of the mass media. In this course, we will examine the most important mass media effects researchers have found influencing the political processes of society.

Prerequisites: ENG201

COM315 Journalism and Social Media (3 credits) An introduction to using the tools of social media to better report and research stories, as well as distribute one's work and engage the public.

COM316 Writing for Broadcasting Media (3 credits) Organized around an integrated view of print, broadcast, and public relations, Media writing provides students with the skills necessary to become proficient writers for the media. Media writing develops the professional skills and attitudes that reporters, broadcasters, and public relations writers need by first outlining the basic concepts and then having students apply these concepts to real- life situations with specific writing exercises.

Prerequisites: ENG201

COM325 Feature & Magazine Writing (3 credits) This course covers principles and practices in news gathering, evaluating, reporting, and presenting information for weekly print media; advanced practice in magazine writing, editing and headline construction. It provides students with the needed skills to write nonfiction articles for magazines, newspapers and newsletters.

Prerequisites: ENG200

COM353 Photojournalism (3 credits) Gathering and processing pictorial material for the print media and television. Practical experience through laboratory and fixed exercises.

Prerequisites: COM206

COM365 Media Law and Ethics (3 credits) The study of ethical and legal principles, case studies, and historical development of mass media regulation local, regional and international.

Prerequisites: ENG201

COM405 Newspaper Editing and Layout (3 credits) This course should teach students the skills needed to be a copy editor—editing for accuracy, fairness, grammar, clarity, sensitivity, impact; choosing, sizing and cropping photos; designing and laying out broadsheet news pages; writing scintillating headlines and informative captions; working with reporters—all under deadline pressure. Students also learn news judgment in choosing top stories of the day and the most important aspects of each story, and become sensitive to the impact decisions will have on readers.

COM410 Professional and Public Speaking (3 credits) This course is designed to provide both a practical introduction to the fundamental principles of public speaking and a forum for practicing public speaking skills. Through a variety of instruction and strategies--discussion, class workshops, readings, lectures, and presentations- you will learn the processes by which effective speeches are conceived, prepared, and delivered.

Prerequisites: ENG200

COM425 Media in Lebanon & The M.E. (3 credits) This course provides a comparison of the media in Lebanon and the Middle East. It also looks at the role of media in shaping our images regarding the countries / states in this part of the world.

Prerequisites: ENG201

COM498 Internship (3 credits) During this internship you will be required to work in an approved professional setting. Individual projects will be developed through conferences under the supervision of a department member and a field supervisor. **Senior Standing**

COM499 Senior Study / Project (3 credits) Approved candidates, who are likely to benefit from working under supervision in their chosen professional communication area, and whose previous academic and practical results warrant it, may apply for consideration by a panel of industry personnel and academics for this option. A detailed report of the learning experiences derived from the internship is required by the University. **Senior Standing**

DES201 Fundamentals of Design I (3 credits) This course introduces art students to the basic elements and principles of design, such as the design tools and instruments used in a design studio. This course covers the study of geometric shapes, two-dimensional illustration, technical drawing, coloring techniques, design as a concept, and perceptual discipline.

DES211 Fundamentals of Design II (3 credits) Introduction to the dimensional requirements faced by those working in the areas of three-dimensional design with the emphasis on package design. Exploration of visual language, compositional principles, problem solving methodology and production in graphic design.

Prerequisites: DES201

DES311 Copywriting (3 credits) A concept is expressed by visuals and words. To complete the graphic courses which are visual courses, the student will learn to deal with words, such as slogans, body copy, etc.

Corequisites: GDP211

DES320 Virtual Reality (3 credits) This course will introduce students to the creation of computer rendered 3D graphics and animation. Through lighting effects, camera angles, sequence and motion students create a new and unique virtual world. The teaching aid will be widespread software, ensuring the students affordable documentation, local and worldwide market place access.

Prerequisites: GDP310

DES350 Design for the Stage (3 credits) An intensive workshop of design extension from graphic or interior design to the existing world of designing for theater stage and movies. This workshop takes each person's skills, abilities, and imagination and guides him/her through set design, costume design and a hint of light design. **Junior standing required.**

DES360 Advanced Photography (3 credits) Advanced studies of all tools of photography including mastering computer skills and the world of digital photos. This course will enable students to access the world of montage and illustration with complete critical thinking for the visual world.

Prerequisites: COM206

DES410 Professional Practice for Graphic Design (1 credit) This course will introduce students to a real-life career. It includes the client and their various needs and background plus the setup required to open a graphic design agency. Students learn about the market in a particular environment; the need for the products and the influence design can have in conjunction with the competition. **Senior Standing required.**

DRT310 Introduction to Law A (3 credits) This course teaches students legal notions from the code of obligations and contracts, labor code, etc. in Arabic.

DRT311 Introduction to Law B (3 credits) This course teaches students legal notions from the code of obligations and contracts, labor code, etc. in French. This prepares students for the translation of legal documents.

ENG103 Writing Skills I FOR Freshman (3 credits) Freshman is an advanced language course that includes listening, speaking and reading/writing. It covers the major components of effective communication in English. Students practice essay writing and are expected to participate in oral debates and presentations. By completing this course they should be able to fluently communicate in English, both orally and in writing.

Prerequisites: Placement

ENG200 English Writing Skills II (3 credits) is an advanced language course that includes listening, speaking and reading/writing. It covers the major components of effective communication in English. Students practice essay writing and are expected to participate in oral debates and presentations. By completing this course they should be able to fluently communicate in English, both orally and in writing.

Prerequisites: Placement

ENG 201 Rhetoric (3 credits) The purpose of this course is to explore the history of rhetorical thought, to help students interpret logical fallacies, analyze others' attempts to persuade in diverse fields, as: advertising, media, politics, law, and science. Students learn to think logically while speaking and writing, and construct their own arguments on controversial topics.

ENG202 Introduction to Literary Genres (3 credits) The course aims to introduce students to different literary genres: poetry, prose and dramas, giving a brief historical survey of their development. The course also addresses the different elements, forms and characteristics of each genre through a close analysis of representative works of each genre.

Prerequisites: ENG 201

ENG207 Morphology and Syntax (3 credits) The course examines the morphology and syntax of modern English. Concerning morphology, it offers a detailed discussion of suffixes and their allomorphs as well as word formation, including derivation and the formation of compounds. As for syntax, it examines the way words are combined to form larger structural units and the interrelationship among the components of such units.

ENG215 Semantics (3 credits) This course is an introduction to the linguistic study of meaning and meaning relations known as semantics. The course begins with an overview of historical semantics, the scope of semantics, semantics in other disciplines and the controversy of how words acquire meaning. The major focus is on lexical semantics - a study of paradigms, synthases, collocation, sense relations (hyponymy, synonymy, antonyms, homonymy, homophony, homograph, and polysemy), and the problem of universals and cognates. The course also deals with semantics and grammar, 'utterance meaning' and 'sentence meaning', and concludes with a brief discussion of Semantics and Logic.

ENG220 Phonetics (3 credits) The focus in this course in on the description & classification of speech sounds and on their production. It introduces the ways in which humans produce speech, with emphasis on ear training, class tests, and speech transcription.

ENG225 Modern English Grammar (3 credits) A study of grammar through exploration and analysis. A more detailed study of word and phrase formation, pragmatics, and critical analysis of descriptive uses of grammar will be covered.

Prerequisites: ENG201

ENG230 Applied Linguistics (3 credits) This course deals with the implications of the findings of theoretical and empirical research of language in all its aspects (language structure, language acquisition, and language variation and use) for the language learner and language teacher.

Prerequisites: ENG201

ENG235 Discourse Analysis (3 credits) The course examines human discourse as a means of achieving better understanding of what language is and how it works. This course emphasizes the inter-relation between language forms and language functions culminating in the study of speech ants and the ethnography of speaking. Topics covered include registers cultural aspects, gender referencing, and pragmatics.

Prerequisites: ENG207

ENG240 Drama and the Stage (3 credits) The course offers both a historical and literary history of the development of drama. The course also concentrates on critical analysis of the distinguishing features of different genres and sub-genres in drama (such as tragicomedy, Comedy of Manners, Closet Drama, One-Act play, etc. . . .), and addresses the technical side of the theater by looking at the characteristics of different types of theaters (such as Greek, Roman, Elizabethan, etc.); terms related to dramatic performance (such as asides, soliloquies, stage directives, dramatis personae; and the major theories of Drama (such as Theater Studies and the Reading Drama theories).

ENG300 Early Middle Ages Literature (3 credits) In this course, the tales told by the poets of this heroic culture will be juxtaposed with works of the early Middle English period, the time of the growing French influence after the invasion of England by the Norman French in 1066. In the early romances and lyrics in Middle English we see the heroic temperament learning chivalry, King Hrothgar is succeeded by King Arthur, and the boisterous mead-hall is rebuilt as Camelot.

ENG310 Late Middle Ages Literature (3 credits) In the late fourteenth and early fifteenth centuries, the potential of the English language to rival French and Latin in Learning and in literary expression is fully and finally established. In the poetic tales of Chaucer, Gower, Langland, and the anonymous poet of Gawain and the Green Knight, a new poetic voice is heard, a voice which is at once very personal, expressing the individual genius of each of these great poets, while at the same time doing so in the language of the common people, expressing—in a world of plague, continuous warfare, and despotic rule—the desire of the people for justice and peace.

ENG320 History of the English Language (3 credits) The course is an introductory survey of the development of the English language from Old English to the present. It seeks to acquaint students with the phonological and grammatical changes that have taken place in the language in the course of its development as well as, briefly, with the political and social factors which have affected the language, particularly its lexicon. The course also involves a close reading of representative texts of various periods as well as sketchy discussion of the Indo-European family of languages to which English belongs.

ENG330 Literary Criticism (3 credits) The course provides a survey of the major trends in critical theory from Plato to the end of the 19th century. It covers Classicism (Plato, Aristotle, Horace, Longinus), ancient Arabic literary criticism (IbnSallam, Al-Jorjani), Renaissance criticism (Sidney), Neo-classicism (Corneille, Dryden, Johnson), Romanticism (Wordsworth, Coleridge, Shelley, etc. --.), Realism and Naturalism (Zola and Flaubert), Symbolism (Baudelaire, Mallarme, Pater, Wilde) and other 10th century critics such as Taine, Croce, and Arnold. The philosophical and socio-political backgrounds of these trends will be emphasized.

Prerequisites: ENG202

ENG350 The Age of Shakespeare (3 credits) A course in which students will read six to eight representative plays by Shakespeare, and in some instances, one or two plays of his contemporaries. The plays will be read intensively; where necessary, attention will be given to theatrical conventions as well as to the social, cultural, religious, and intellectual history of the period.

Corequisites: ENG240

ENG355 Elizabethan and Jacobean Drama (3 credits) Contrary to our popular perceptions, Shakespeare neither led nor dominated the early modern stage, which was far too varied and vigorous to be epitomized by one playwright. This course samples the dramatic output of some of Shakespeare's contemporaries, focusing particularly on the emergence of the commercial theater as an important economic and cultural institution in early modern London.

The complex relations between performance, politics, gender, genre, collaboration, and canonicity will be stressed; there will also be violence, unnatural passions, unnatural acts, devils, duels, dirty jokes, torture and plenty of smut. Authors to be considered include Marlowe, Jonson, Middleton, Dekker, Marston, Beaumont and Fletcher, Webster, and Ford.

ENG360 Renaissance and Restoration (3 credits) A survey of major poets, literary forms, and movements in England from the poetry of the Tudor period to the drama of the Restoration. Poets studied will include Shakespeare, Spenser, Donne, Jenson, Marvell and Milton. Attention will be given to salient features of the political, social, and philosophical background of the period.

ENG365 English Prose 1660-1800 (3 credits) This course is a survey of Restoration and Eighteenth-century prose consisting of: a) the speech-based prose of the last half of the seventeenth century. A major theme in this section is how grammatical structuring defies conventional syntax and Renaissance rhetoric. b) the genteel, anti-scholarly conventions widely applied by writers in the first sixty years of the eighteenth century to speech-based prose. c) The two schools of writers who reacted against speech-based prose and upheld the calls of grammarians for systematic propriety. The concept of 'syntactic symbolism is used as a tool to test this traditional account of prose movements in the period.

ENG400 Romantic and Victorian Literature (3 credits) On this course we will examine a range of works by Mary and Percy that reflect both the strengths and conflicts of their relationship and the culture of their time. These will include Mary's Frankenstein, Mathilda, The Last Man, and her preface to the posthumous edition of Percy's poetry; a range of poetry and prose by Percy, including Prometheus Unbound, and the Defense of Poetry; and their joint production, History of a Six Weeks' Tour (1817) based on their two journeys to France and Switzerland in l814 and 1816.

ENG405 19th Century English Novel (3 credits) The course offers in-depth analysis of the main characteristics— themes, characterization, and techniques—of the golden age of the British novel: The Victorian period. The focus of the course will be on major representative works by authors such as Jane Austen, Charlotte and Emily Bronte, Charles Dickens, George Eliot, Thomas Hardy and George Gissing. Both the form and the content will be scrutinized in order to highlight the multifaceted nature of the Victorian ethos and era and to trace its connection to the 18th and 20th century novel.

ENG410 Modern Drama (3 credits) The course is a study of major trends in modern drama (Irish, British, and American). It commences with the contribution of dramatists such as Ibsen, Srindberg, Chekov, Brecht, and Pirandello. Then, the course will focus on a close study of representative works by playwrights such as J.M. Synge, Sean O'Casey, Samuel Beckett, Harold Pinter, Eugene O'Nei1 and Tennessee Williams.

Prerequisites: ENG240

ENG420 British Romantic Poetry (3 credits) This course surveys the poetry of the English Romantics. Spanning the years 1789-1832, the English Romantic period witnessed remarkable social transformations that affect us yet, including a volatile political climate, an expanding but fragmented reading public and an increasingly marginalized social role for serious imaginative literature. We will consider the various ways in which early nineteenth-century poets responded to these alienating demographic tendencies as we examine works ranging from lyrics to mythic narratives, landscape meditations to protest poetry. In addition to the major poets, we will look at some emerging figures who wrote for the diverse readerships of Romantic England. While emphasis will be placed on close textual reading, historical, and intellectual background will also be considered where relevant. An important concern in this course will be Romanticism as a cultural phenomenon: what is Romanticism and English Romanticism in particular— what subjects and styles link the diverse poetry being written during this period—how are we heirs of Romantic thinking not only in art but in basic social attitudes.

ENG430 American l9th Century Literature (3 credits) The course is designed to introduce students to major works and literary figures in 19th century America. It commences with a comprehensive introduction covering the historical and intellectual background of American Literature. The thrust of the course, however, is toward providing an in-depth analysis of representative works of such major writers as Emerson, Thoreau, Poe, Whitman, Melville, Hawthorne and Dickinson.

ENG440 American 20th Century Literature (3 credits) A course that examines recent and current trends and movements in American literature, such as Absurdum, Post-Modernism, and ethnic literatures of the United States. Works studied might include such writers as Morrison, Walker, Vonnegut, Heller, and Carver.

ENG445 Feminist Literature (3 credits) This course will examine a range of texts by women and in a variety of genres—some of which women writers pioneered and in all of which they were significant experimenters and innovators. These include narrative and lyric poetry, Gothic fiction and drama, the historical novel, 'street literature', fictions of region and nation, social and cultural criticism, and of course polemical feminist prose. Writers include Mary Robinson, Anna Letitia Barbauld, Mary Wollstonecraft, Mary Hays, Charlotte Smith, Hester Piozzi, Maria Edgeworth, Jane Austen, Felicia Hemans, Mary Shelley, Sarah Wilkinson, and others.

ENG450 Early Twentieth-century Poetry (3 credits) The heart of the course is a consideration of the birth of modernism: the achievements of William Butler Yeats, T.S. Eliot Ezra Pound, H.D., Wallace Stevens, Marianne Moore, and Mina Loy. Their extraordinary experiments have been both inspirational and intimidating to their successors. Time will also be given to relatively traditional poets like Robert Frost, Edna St. Vincent Millay and e. Cummings. In the latter part of the course, students will explore and report to the class on such subjects as African American poets and English poetry of the 1930's.

Prerequisites: ENG420

ENG455 The Age of Modernism (3 credits) A course that exposes students to some of the classical works of twentieth-century modernism and post-modernism, which will be considered against a cultural, historical, and artistic background. Major writers will

include James Joyce, Virginia Woolf, T.S. Eliot, Samuel Beckett, Vladimir Nabokov, and Gabriel Garcia Marquez.

ENG460 Post-Colonial Literature (3 credits) A course that focuses on texts "writing back" to the metropolis in the era of de-colonization. Novels by authors from Africa, the Middle East, Asia, and Latin America will be studied in the contexts of neocolonialism, nationalism, and post-colonial cultures and politics.

Prerequisites: ENG330

FLM203 Film History I (3 credits) This course cover the development of motion pictures from their beginnings to roughly mid-20th century. It examines some of the major developments — technological, formal, aesthetic, and institutional — in several countries around the world as the cinematic art from took shape in its first half-century.

Corequisites: ENG200

FLM205 Principles of Cinematography (3 credits) This is an introductory course to the basic. Through a theoretical approach (history of cinematographic techniques, image analysis, visual aesthetics) [there is no 'practical' aspect to this course].

Prerequisites: COM206**;** ENG200 (co)

FLM207 Film History II (3 credits) This course is designed to provide the students with constructed critical thinking about film and filmmaking, from the mid-twentieth century to present day. It includes a historic study of the cinematic art, taking into consideration the social, political and artistic context of each period.

Prerequisites: FLM203

FLM210 Directing a Short Movie (3 credits) In this course, students will learn the technical and creative sides of filmmaking. They will write, direct, and edit their own films as well as crew on their classmates' films. Throughout this course, students will comprehend how the director works collaboratively to achieve his / her vision.

Prerequisites: AVP225, AVP206, COM207

FLM213 Advanced Cinematography (3 credits) At its most basic, this course is intended to help students become more sensitive to the visual aspects of motion pictures, from light and lighting to camerawork and composition. The course will help students think about their own visual preferences and the sort of 'style' they might begin to develop in their own pursuit of filmmaking. It acquaints them with the work of some of the great cinematographers — those thought to have a distinctive style, and those whose work is often considered 'style-less,' and whose major contributions have been to help directors realize their own vision and style.

Prerequisites: FLM205

FLM222 Film Analysis I (3 credits) This class is intended to help students understand how movies communicate – how they employ aesthetic conventions that are familiar to us, even if we are not aware of them; how they rely on prescriptive rules for us to make sense of them (for communication to occur). The course is mainly, therefore, an examination and analysis of film form -- i.e. the formal techniques by which movies are put together and

that make them make sense to us. Students will also reflect on the status of motion pictures as Art, and consider whether working within the limits of convention, in a highly industrialized production process, can give rise to art.

Corequisites: ENG200

FLM304 Scriptwriting for Film (3 credits) In this course, students will learn the different techniques of writing a screenplay adapted from a famous novel. The course will focus equally on the theoretical and practical aspects of adaptation. At the end of the course, the students are expected to submit a fully adapted short screenplay based on a novel chosen by the professor.

Prerequisites: AVP225, ENG201

FLM322 Directing a Documentary Film (3 credits) Students who take this course will learn the trajectory of documentary filmmaking through directing their own short documentaries. Moreover, they will be invited to develop a critical understanding of the role of cinematic images in conveying "reality", whilst comprehending the differences and interconnections between non-fiction and fiction films.

Prerequisites: AVP225

GDP200 Typography and Calligraphy (3 credits) This studio course will introduce the elements, concepts, principles and techniques of typography and calligraphy and their development into creative art forms to symbolize a specific meaning of visual communication. Students will study calligraphy and typography within various languages.

Prerequisites: ART201

GDP211 Graphic Design I (3 credits) This course introduces students to the visual elements, principles and problem solving methodologies, as well as techniques of graphic design. It is an overview of the current profession. Emphasis is placed on concept development, process and the creation of designs for the current market.

Prerequisites: ART201; GDP200(co)

GDP215 Computer Software I for the visual (3 credits) This course will introduce students to software used to create visual image and design. Emphasis will be on the study of Adobe Illustrator and the transformation of hand- rendered graphics into fine-tuned vector illustrations. Students will also learn how to prepare their files for pre- press.

GDP225 Graphic Design II (4 credits) An advanced studio course where students explore 2D and 3D forms of graphic design, along with an introduction to motion graphics. Projects are based on: corporate identity systems, advertising campaigns, package design / environmental design, advanced typography, motion graphics and the impact of graphic design to better one's society.

Prerequisites: GDP211

GDP300 Page Layout & Design (3 credits) This course examines the layout of multi-page designs and publications through lectures and studio work. Students will work with body-copy as both a readable text and as an aesthetic design element. Emphasis will be placed on how information is organized and composed in order to communicate effectively.

Students will gain an in-depth understanding of a grid system in contrast with experimental, organic design.

Prerequisites: GDP211

GDP310 Computer Software II for the visual (3 credits) The purpose of the course is to provide students with sufficient techniques, tips, and solutions for using Photoshop software. It introduces the student to the pixel world and to the power of manipulating different types of images to create astonishing designs.

GDP325 Package/Product Design (3 credits) On this course students design packages from simple labels to 3D forms, ensuring creativity and functionality, and the application of graphics, type and color, in order to create brands.

Prerequisites: GDP211

GDP330 Visual Narratives (3 credits) On this course student will tell a story through a sequence of visual images, incorporating sound and motion. From concept development, hand-rendered key-frames to a professional-level time-based media work.

Corequisites: GDP211

GDP335 Web Design (3 credits) On this course student will create their own self-promotional website. Students will transform content and mapped information into a site that viewers easily navigate and quickly interpret.

Basic HTML and intensive Dreamweaver and Macromedia Flash will be taught. Students will work with links, rollovers, motion graphics and sound. Emphasis will be placed on how the design of the printed page translates to this interactive screen-based media.

Prerequisites: GDP310

GDP435 Printing Variables (3 credits) On this course student learn printing techniques, terminology and how to transform digital files into professionally printed pieces. Students work directly with a print house. Emphasis is on QuarkXPress and the integration of Adobe Illustrator and Adobe Photoshop for printing. This course includes field trips and lectures.

Prerequisites: GDP211

GDP490 Senior Project I (4 credits) Students are assigned a project in which they must complete a variety of design pieces, applying all they have learned, as a cohesive unit. Emphasis will be placed upon each student's individual design vision, final presentation and professionalism.

Prerequisites: GDP225

GDP491 Senior Project II (4 credits) On this course student define their own project and complete a collection of work based upon research and creative analysis. Students also complete their portfolio. Emphasis will be placed upon each student's individual design vision, final presentation and professionalism.

Prerequisites: GDP490

HIS200 History of Modern Lebanon (3 credits) This course covers the history of the modern Republic of Lebanon for a period of about one century, from 1920 until the present

day. After a brief historical introduction of the Ottoman domination, the course will address the earlier emergence of Greater Lebanon, as well as the independence period, and study all the major events leading up to the civil war. It will also look at the period covering both power sharing agreements: the maronite-sunni agreement of 1943 and the Taëf agreement of 1989. Finally, it will conclude with a close look at the contemporary period: from the reconstruction of Lebanon after the end of the war until the new tensions emerging in Lebanon within the Middle-East crisis.

HUM210 Arts Appreciation (3 credits) Provides a comprehensive overview of the world of visual arts. It serves to enhance understanding and appreciation for a broad range of imagery, media, artists, movements and periods in history. This course illustrates the place of art in social and cultural life and encourages students to develop judgment in art analysis and criticism. Students familiarized with this basic core of information, thought, and experience have the opportunity to become more confident in their visual literacy.

HUM211 Music Appreciation (3 credits) A general introductory course designed to enhance listening enjoyment and ability. Emphasis on the elements of music, the characteristic styles of major historical periods, and the lives and works of key composers within the Oriental and Western musical traditions.

HUM212 AUT Cultural Plus (1 credit) This course is designed to improve observation skills for all the students boosting their curiosity and adding to their culture. It aims to develop clear understanding of their future jobs and make them aware and alert about the latest trends and development in the city. Through guest speakers, they will learn on how to improve their presentations and their language

HUM318 Human Rights (3 credits) The course is designed to provide students the opportunity to learn about the growing importance of human rights and their impact in the world today. Students examine a variety of issues related to human rights and broader contemporary trends related to human rights and business. The course helps students to understand interrelationship between human rights - political - social and business developments. Students also gain an understanding of the existing international human rights standards; learn ways in which business and human rights intersect.

Prerequisites: ENG200

IDP215 Architectural Drawing (3 credits) An introduction to the techniques of drawing and sketching as an aid to design, basics and expression of lines, product and interior drawings, presentation techniques. In this course students will gain an awareness of basic visual construction and techniques.

IDP251 Rendering & Perspective (3 credits) This course is an introductory class to three-dimensional drawing for interior designers. Emphasis will be on simplified systems of perspective and drawings in furniture and interiors. The student will also be prepared to make the most out of further advanced rendering classes.

Prerequisites: IDP215; DES215**;** IDP291(Co)

IDP290 Design Project I (4 credits) An introduction to the basic principle of design. Topics include basic design theory and practice, design methodology, problem solving method, visual communication skills and basic modeling techniques.

Corequisites: IDP215

IDP291 Design Project II (4 credits) This course is an introduction to the design principles associated with the evaluation and redesign of an existing product, furniture or space. The course explores conceptual aesthetics and structural studies in the field of remodeling projects.

Prerequisites: IDP290

IDP310 History of Architecture & Furniture I (3 credits) This course describes movements, events and people that have defined design history. It makes students understand the connections between design history and culture, historical and social contexts and their influence on the design of products, furniture and architecture.

IDP315 Computer Aided Design (3 credits) Students learn the theory behind how three-dimensional objects are presented two dimensionally. The course is oriented toward technical drawing with a review of drawing and dimensioning conventions. The last part regards drawing 3D basic and complex objects within an introduction to 3D modeling.

Prerequisites: IDP215

IDP320 Materials and Process (3 credits) This course covers the various materials and parameters involved in designing parts out of plastic, metal, wood, cardboard and others. Discussion of the major types of materials their categories and their characteristics. Field trips and report presentations are also included.

Prerequisites: IDP291

IDP330 History of Architecture and Furniture II (3 credits) The course is an historical in depth survey of design. Students implement their historical and theoretical knowledge through critical thought and comparative studies.

Prerequisites: IDP310

IDP335 Problem Solving for Design (3 credits) Design methodology emphasizes the value and use of scientific methods for data collection and decision-making. Techniques such as interviewing, testing and analysis of the utilityof the design are taught. Students practice communicating for business purposes.

Prerequisites: IDP390

IDP340 Details & Manufacturing Technology (3 credits) This course provides an overview of the transformation details and techniques for manufacturing. Students will learn how to solve actual design problems and find better solutions for the details of the process.

Prerequisites: IDP320

IDP345 Virtual Reality / 3D Max (3 credits) This course will introduce students to the creation of computer rendered 3D graphics and animation. Through lighting effects, camera angles, sequence and motion students create a new and unique virtual world. The teaching aid will be widespread software, ensuring the students affordable documentation, local and worldwide market place access.

Prerequisites: IDP315

IDP390 Design Project III (4 credits) Students learn how to design a product which satisfies human and psychologicalneeds. Projects address the requirements of special user

groups and specific markets with consideration given to the production capabilities of markets. Manufacturing will be the focus of at least one project.

Prerequisites: IDP291

IDP391 Design Project IV (4 credits) This course, students develop their design and manufacturing skills. The course explores the conceptual, aesthetic and structural studies in the field of flexible design. Students will reinforce their skills in the execution process.

Prerequisites: IDP390

IDP410 Digital Presentation (3 credits) This course introduces basic digital tools for industrial design presentation and reinforces students drawing and communication skills.

Prerequisites: IDP315

IDP420 Professional Practice (1 credit) This course, students continue preparing themselves to enter the career field of design. They experience technologies and their relationship to industrial design. A field report must be submitted for evaluation.

Prerequisites: IDP391

IDP445 Advanced Virtual Reality (3 credits) This course is designed for different animation presentations. Students improve their technical skills by mastering a variety of professional software.

Prerequisites: IDP345

IDP490 Senior Project I (4 credits) Students practice a professional level design project assigned by a real client; they focus on specific design criteria and apply them to a personal design. They organize, and analyze the various parameters of design in a proposal and focus on research problem statement through sketches, mock-ups, renderings and a preliminary model.

Prerequisites: IDP391

IDP491 Senior Project II (4 credits) The senior project should maintain an active link with the professional world of design to facilitate the transition for students from the educational world into the professional. Students develop their proposal and study the market of interior design; they will cover all aspects of design from design concept and design planning to design shop drawing development.

Prerequisites: IDP490

JRN330 Investigative and Field Based Journalism (3 credits) An introduction to the practical skills involved in investigative reporting, including interviewing techniques, identification and nurturing sources, public record searches, and how to shape compelling narrative.

Prerequisites: ENG201

JRN340 Data Journalism (3 credits) An instruction to the data skills needed in the modern practice of data-driven journalism. The focus will be on the practical concepts and tools journalists need to explore unfamiliar datasets to find worthwhile stories.

Prerequisites: ENG201

MAT261 Visual Math for Arts (3 credits) This course covers basic geometry vocabulary versus free-form shapes by exploring basic elements and principles of design. Students will learn how to develop surfaces and volume in the form of solids. Form giving properties as structure, proportion, composition and static and dynamic symmetry as studied. The basics of orthographic dimensioning and representing a form with multiple views on paper and models are represented.

POL202 Global and Political Change (3 credits) This course introduces the phenomena of globalization. It examines its historic roots and the different views associated with its universal impacts. It examines how globalization helping the integration of world culture, economies, and states.

Prerequisites: ENG200

PUR220 Foundations of Public Relations (3 credits) This course introduces you to the history, principles and practice of public relations in a global context. You will look at prominent areas of PR practice and specialization, and consider environments in which PR practitioners work, relating them to ethical dimensions for the practitioner, the PR industry and society. In this course you will also examine major issues facing the PR industry, including current/recent international trends and developments.

Prerequisites: ENG200

PUR240 Public Relations Management (3 credits) This course deals with the application of public relations tools and techniques and the management of public relations campaigns. Topics include methods of public relations research, strategic planning, preparation of public relations materials, and the use of controlled and uncontrolled media.

Prerequisites: PUR220

PUR309 Public Relations Campaign (3 credits) This course is a capstone course that introduces students to the process of campaign development, management, and evaluation using the principles and strategies of public relations and agency management. Recreating real-world professional settings, this course marks your transition from student to professional. The aim of this course is to help you master the elements of a strategic communication campaign through direct experience as a practitioner.

Prerequisites: PUR220

PUR310 Rhetoric and Social Influence (3 credits) This course will provide students a basic overview of the influences that produce change, both on an individual and a societal level. Emphasis will be on communication as a goal-directed activity, with study of audience analysis and adaptation, strategies for communicating a message, influence of various channels (including mediated channels), and the importance of context. (This course is cross-listed with the English department.)

Prerequisites: ENG200, PUR220

PUR357 Special Events Planning (3 credits) Special events are an important marketing tool and offer valuable public relations opportunities for companies, organizations and communities. The event format is an excellent vehicle to promote a new

business, a product line, or reinforce your brand. You'll discover how to design results-driven events to meet your goals, and how to apply the results-driven method to identify target audiences, orchestrate fundraisers, find sponsors, plan pre-event publicity and gain event-day media coverage. This course promises you an "inside look" at events: how to manage them, how to measure results and how to produce successful events time-after-time.

Prerequisites: PUR220

PUR406 Public Relations Research (3 credits) This course is intended to provide opportunities to students to understand why research is essential in Public Relations campaign development, monitoring of PR programs and evaluation of campaign effectiveness. It covers different types of qualitative research, quantitative research, traditional research and online research. Through assignments and class-discussion, you will get hands-on experience of PR project. This course imparts a managerial perspective rather than a technical skill approach to the use of a wide range of research methods. You are expected to display an ability to integrate research components into PR campaign development and to become prepared for higher level courses such as PR Strategy and PR campaigns.

Prerequisites: PUR220

PUR408 Writing for Public Relations (3 credits) Students learn to produce clear and colorful writing while examining effective public relations strategies essential to any organization. Students learn how to create a positive corporate image based on a well-planned public relations strategy. Writing assignments include newsletters, brochures, fundraising literature, business correspondence, media copy and promotional material. Upon completion of the course, students will be able to create written pieces that convey precise information, attract attention, make a favorable impression, and influence decision-making.

Prerequisites: PUR220

PUR497 Special Topics in Public Relations (3 credits) This course is your introduction to special event production, sponsorship, and specialized approaches to non-profit, entertainment, and international PR. It covers strategies, tools, and challenges that are unique to different PR practice areas; the structure and purpose of not-for-profits; analysis of strengths, weaknesses, opportunities, and threats, and how to apply your analysis in the international PR market; communication channels and the influence of language and culture in international markets; how to develop selection criteria for sponsorship properties, as well as, event planning, from the budget stage to reporting.

Prerequisites: PUR220

SOC202 Justice, Society and Gender (3 credits) This class will explore the political and legal institutions by investigating subjects such as the political constraints under which the law and society operates, the institutional competence of courts, the role of judges and ministers in the development of policy, the role of society in the interpretation of outcomes of the legal process, and the background and decision-making behavior of judges. Other topics will be examined to determine the role of the law, politics, and society in the development of the policies governing those issues.

Prerequisites: ENG200

TRA201 Arabic for Translators (3 credits) This course focuses on developing students' proficiency in Modern Standard Arabic for academic and professional use. Emphasis is placed on advanced grammar, vocabulary enrichment, and stylistic accuracy to prepare students for high-level translation tasks. Students will engage with a variety of texts to build the linguistic and analytical skills required for professional translation.

TRA202 French for Translators (3 credits) This course is designed to strengthen students' proficiency in academic and professional French to prepare them for careers in translation. It focuses on advanced grammar, lexical development, and accurate expression in written French. Students will work with a wide range of texts—including journalistic, technical, literary, and administrative materials—to develop their comprehension, analytical, and writing skills. The course also emphasizes stylistic appropriateness, idiomatic usage, and the nuances of meaning essential for effective and accurate translation.

TRA203 English for Translators (3 credits) This course aims to develop students' mastery of academic and professional English in preparation for advanced translation work. It focuses on refining linguistic accuracy, expanding domain-specific vocabulary, and enhancing written expression through the analysis and production of various text genres. Emphasis is placed on style, register, and the conventions of English used in formal, academic, and professional contexts relevant to translation.

TRA211 General Translation I (3 credits) This course introduces students to practical translation techniques through exercises involving a variety of non-literary texts. Emphasis is placed on the accurate and context-appropriate translation of materials drawn from business, government, media, and public affairs. Students learn to identify translation challenges, apply problem-solving strategies, and maintain fidelity to the source while producing clear and natural target-language texts.

Prerequisites: TRA201, TRA202

TRA301 Introduction to Documentary Research (3 credits) An introduction to methods of documentation used by translators and terminologists to obtain the information they require in English and French. Use of lexicographic and non-lexicographic documentation, both printed and electronic; production of bibliographical dockets. Introduction to the facilities offered by libraries and documentation centers.

TRA310 Translation Principles (3 credits) An introduction to the principles of professional translation. Descriptionsof the methodology and cognitive process involved in translation. Presentation of recurrent difficulties related to inter linguistic transfer. Exercises. Translation of general pragmatic texts. Exercises in the translation of factual textsculled from newspapers, correspondence, etc.

TRA311 General Translation II A-B/B-A (3 credits) This course provides practice in translating moderately complex scientific and technological texts from Arabic to French and French to Arabic. Emphasis is placed on accurate comprehension, appropriate terminology, and the effective transfer of meaning between languages. Students will be introduced to relevant scientific and technical concepts needed to understand and translate source texts effectively. The course also develops strategies for handling domain-specific challenges while maintaining clarity and fidelity in translation.

Prerequisites: TRA211

TRA312 General Translation III A-C/C-A (3 credits) Exercises in the translation of moderately difficult but not highly specialized scientific and technological texts from Arabic to English and English to Arabic.

TRA313 Media Translation (3 credits) This course teaches students how to translate different types of media content clearly and correctly. It focuses on the language, culture, and meaning behind news, social media, ads, TV, and public relations. Students will practice with real examples like news stories, press releases, subtitles, and online posts. The course helps students understand how to send the right message in another language and for a different audience.

Prerequisites: TRA202, TRA203

TRA331 Expression Techniques in Arabic (3 credits) This course is designed to enhance students' proficiency in both oral and written Arabic through the identification and correction of common linguistic errors. It focuses on refining students' expression by revisiting essential linguistic structures such as syntax, morphology, and semantics. Practical exercises include writing tasks, oral presentations, and grammar revision to improve clarity and fluency in both formal and informal contexts. Students will also engage in error analysis and self-assessment exercises to sharpen their understanding of the language.

TRA332 Expression Techniques in French (3 credits) This course aims to polish students' oral and written French skills, with a particular focus on identifying and correcting common mistakes in grammar, syntax, and stylistic usage. The course includes a detailed review of French linguistic structures such as tenses, mood, and sentence formation. Students will practice constructing accurate and nuanced expressions through written exercises, group discussions, and presentations. The course also emphasizes practical communication skills in various professional and social settings.

TRA410 English Morphology and Syntax (3 credits) This course delves into the structure of the English language, exploring the processes involved in word formation, including affixation, compounding, and conversion. Students will study the theoretical frameworks used to analyse word structure (morphology) and sentence structure (syntax). Key topics include phrase structure grammar, syntactic trees, and transformational rules. The course provides an in-depth look at the principles behind sentence formation, helping students understand how words and phrases interact to convey meaning.

Prerequisites: ENG201

TRA412 General Translation IV B-C/C-B (3 credits) This course builds on previous translation skills by training students to translate more complex and varied text types between French and English. Students will focus on translating texts from diverse fields such as literature, journalism, law, and business. The course emphasizes translation accuracy, stylistic choices, and maintaining the integrity of the source text while producing fluent, idiomatic translations. Special attention is given to translating between two languages with significant cultural and linguistic differences, emphasizing the importance of context and cultural nuances in translation.

TRA413 Advanced Translation A-B/B-A (3 credits) In this course, students will engage with the translation of previously untranslated literary and non-literary works, focusing on the Arabic to English (A–B) or English to Arabic (B–A) language pairs.

Students will critically analyse source texts and explore advanced translation strategies to address challenges such as idiomatic expressions, cultural references, and syntactic differences. A key component of this course is the production of a comprehensive translation project, which will be submitted for review and feedback.

Prerequisites: TRA311

TRA415 Advanced Translation A-C/C-A (3 credits). This course offers students the opportunity to deepen their skills in translating between Arabic and English. Students will focus on complex text types, including academic research, literary works, and specialized discourse. Emphasis is placed on precise terminology, maintaining the author's intent, and ensuring the translation is appropriate for the target audience. Students will also engage in critical analysis of translated works to assess translation strategies and techniques.

Prerequisites: TRA312

TRA430 Traduction Juridique A-B/B-A (3 credits) This course prepares students for the challenges of translating legal texts between Arabic and French. Students will learn to handle legal terminology and concepts from various branches of law, such as contracts, international law, and corporate law. The course will cover both theoretical aspects of legal translation, such as legal systems and terminology, as well as practical exercises focused on translating real-world legal documents. Special emphasis is placed on maintaining the precision and formality required in legal translations.

Prerequisites: DRT310 & DRT311

TRA450 Translation of Business Texts (3 credits) This course focuses on the translation of business-related texts, such as financial reports, corporate communications, marketing materials, and commercial contracts, between English and Arabic. The course covers key business concepts, terminology, and document structures that are common in the corporate world. Students will practice translating business documents accurately while considering the specific requirements of tone, style, and legal conventions in the business context.

Prerequisites: BUS305

TRA460 Computer Assisted Translation (3 credits) This course introduces students to the growing field of computer-assisted translation (CAT). Students will learn how to use translation software tools such as translation memory, terminology management systems, and machine translation to enhance translation productivity and consistency. The course also provides an overview of desktop publishing (DTP) software and its integration into the translation process. Students will gain hands-on experience with CAT tools and explore the ethical implications of using machine translation.

Prerequisites: CSC200 or CSC201

TRA466 Conference Translation A, B, C (3 credits) This advanced course provides students with the skills necessary for conference interpretation, with a specific focus on the terminologies of U.N. agencies, international development, education, and technology in the Middle East. Students will practice simultaneous and consecutive interpretation, and will refine their skills in managing technical vocabulary and dealing with real-time translation challenges. Students will also study the ethical considerations and best practices for conference interpreters.

TRA470 Medical Translation (3 credits) This course focuses on translating medical texts, including clinical documents, patient information, and medical research papers, from English to Arabic and vice versa. Students will become familiar with medical terminology, common phrases, and concepts used in the healthcare field. The course includes practical translation exercises and case studies, with special attention to the accuracy and clarity required in medical texts to ensure the safety and understanding of patients and healthcare providers.

Prerequisites: HLT201 & NTR201

TRA474 Practicum (4 credits) The practicum provides students with real-world experience in a professional translation environment. Under the supervision of industry professionals, students will apply the translation and terminology principles they have learned throughout the program. The practicum will involve translating various types of texts, from general documents to specialized materials, depending on the student's area of interest. Students will also submit a written report reflecting on their experiences, challenges, and learning outcomes.

WED200 Web Design I (3 credits) The student will learn how to critically evaluate website quality, learn how to create web pages and websites layouts, learn about web design standards and their importance.

Corequisites: GDP200

WED201 Web Design II (3 credits) This class considers the importance of ideas in the creative process and how concepts can be originated and evolved to become potential project solutions. Its aim is to develop research, conceptual and visualization skills in context to specific project briefs.

Prerequisites: WED200

WED202 Web Animation (flash) **(3 credits)** With Adobe Flash, the student will learn how to create animations for the web, work in the Timeline, create symbols, plan a Web site, use the drawing tools, create objects and text, work with libraries, buttons, actions, and animation, as well as work with masks, sounds, and scenes. With flash web interactive pages can be made.

Prerequisites: GDP310

WED203 Web Integration (Dreamweaver) **(3 credits)** This course introduces the student to HTML language, emphasizing on semantic use of elements and the benefits of using standards-based valid code. Then through the use of Dreamweaver, the student will first learn how to get started with Dreamweaver and how to develop a Web page. He/she will work with text, images, links, tables, and frames. He/she will learn to include Photoshop design, work with layers, make selections, incorporate color techniques etc... Finally, he will learn how to integrate a design into an interactive webpage.

WED301 Web Design III (4 credits) The student will learn to use interactive delivery systems to design websites with creativity, innovation, user focus, and technical expertise, and develop competencies in producing and engaging visuals and animation based on creative design and technical production skills.

Prerequisites: WED201

WED302 Web Technology (4 credits) The course aims at giving the designers the necessary background to understand and use XML specifications and vocabulary to structure, cascade and visualize web pages from server to browsers. Topics include: Introduction to XML; survey of Web technologies such as XLL, XSL, DOM and links to XML resources; Benefits of XML as potential applications in diverse fields; Document Object Model scripting, JavaScript fundamentals, PHP. Students are expected to design and/or modify web pages using scripting languagesin a monitored independent project.

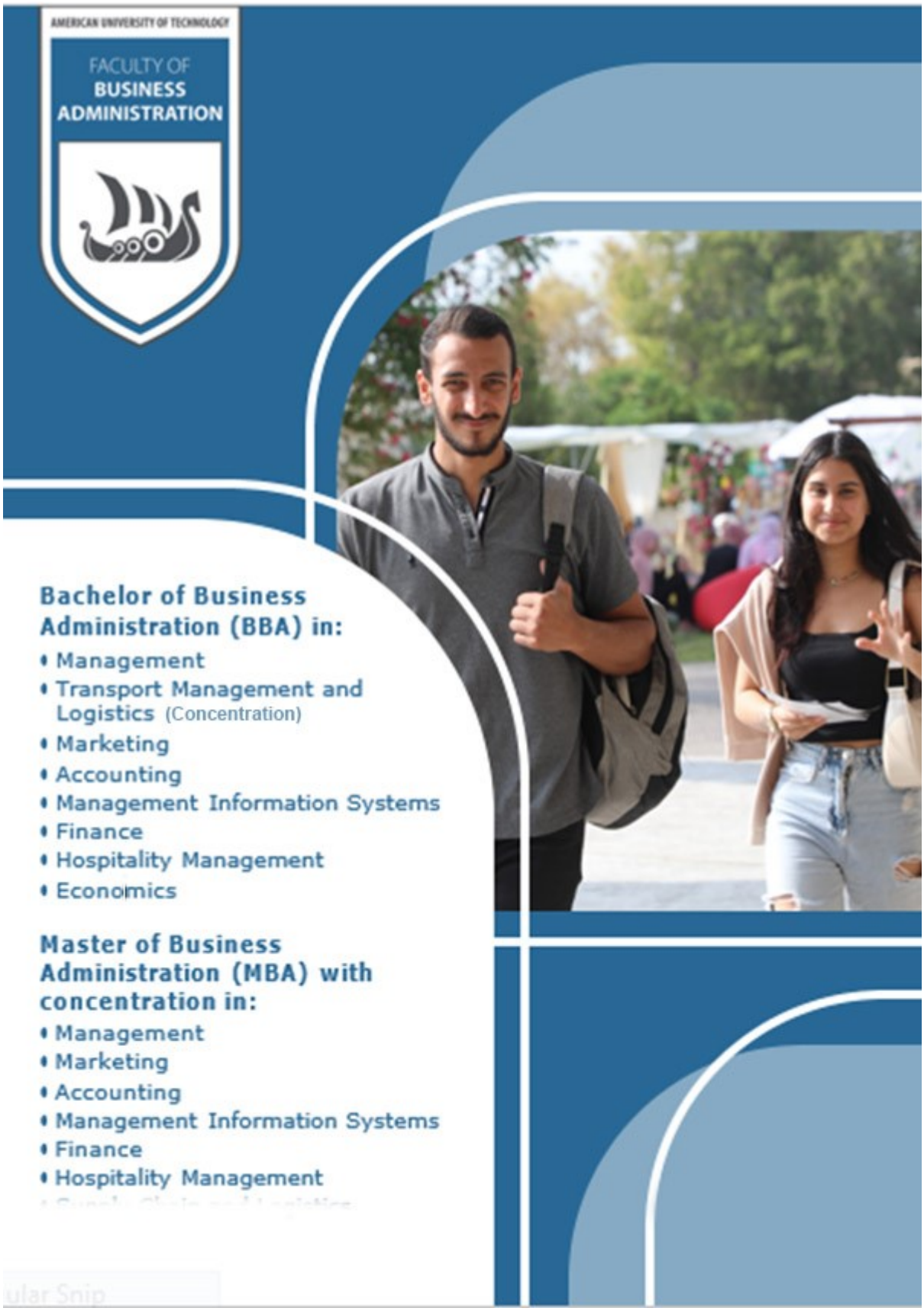
Prerequisites: WED203

WED401 Senior I (4 credits) Students are assigned a project in which they must complete web creation process— from concept to finish a website design, applying all that they have learned. Emphasis will be placed upon each student's individual design vision, final presentation and professionalism.

Corequisites: WED201

WED402 Senior II (4 credits) In this course students will define their own website project and complete a collection of work based-upon research and creative analysis. Students complete their portfolio with this final project which demonstrates significant growth in both creative & technical skills, and a solid understanding of the visual elements & techniques of an ever-evolving technology of web design.

Prerequisites: WED401


AMERICAN UNIVERSITY OF TECHNOLOGY
FACULTY OF
BUSINESS
ADMINISTRATION
Bachelor of Business Administration (BBA) in:
• Management
• Transport Management and Logistics (Concentration)
• Marketing
• Accounting
• Management Information Systems
• Finance
• Hospitality Management
• Economics
Master of Business Administration (MBA) with concentration in:
• Management
• Marketing
• Accounting
• Management Information Systems
• Finance
• Hospitality Management

Faculty of Business Administration

The Faculty of Business Administration trains the next generation of leaders and equips them with the knowledge, skills, and mindset necessary to succeed in an ever-changing, technology-driven, competitive world.

Over the years, this approach enabled graduates of the Faculty of Business Administration to be absorbed into the job market with relative ease and assume leadership positions through their dedicated efforts and knowhow. Multiple tracks for most of the majors are now added to the program to enhance learning spectrum for graduates in an ever-changing business landscape.

Degrees Offered

The Faculty of Business Administration offers Bachelor of Business Administration (BBA) degrees in:

- Accounting 99 credits
- Finance 99 credits
- Hospitality Management 99 credits
- Management 99 credits
- Management: Transport and Logistics (concentration) 99 credits
- Management Information Systems 99 credits
- Marketing 99 credits

Bachelor of Business Administration in Accounting

(99 credits)

The field of Accounting is concerned with topics in various areas including, but not restricted to, financial analysis, information systems, cost analysis, auditing, international, governmental and non-profit accounting, taxation, and law and business ethics. Students will receive both theoretical and practical preparation for a variety of responsible managerial and specialist positions.

Career opportunities

Careers in accounting are numerous and can be divided into the following four categories:

- Governmental Accounting: accountants who work for the government.
- Management Accounting: Management accountants generate and analyze accounting data that is tailored to the diverse requirements of management.
- Public Accounting: Certified public accountants are mainly responsible for auditing financial statements, doing income tax work, and providing management advisory services.
- Teaching: Accounting educators are mainly responsible for teaching accounting and publishing research findings.

General Education Requirements			**26 credits**	
Major Core Requirements			**37 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
BUS	230	Business Law	3	
BUS	310	Quantitative Methods for Business Decisions	3	MAT221
BUS	491	Internship	1	Senior Standing
ECO	201	Microeconomics	3	ENG280 or ENG 201 maybe be taken concurrently
ECO	202	Macroeconomics	3	ENG200 or ENG280 or ENG 201
FIN	221	Managerial Finance	3	ACC215
MAT	221	Calculus & Applied Math for Business	3	ENG 020 may be taken concurrently
MGT	201	Management Principles	3	ENG 200 may be taken concurrently
HRM	320	Human Resources Management	3	MGT201
MIS	360	Management Information Systems	3	MGT201
MKT	201	Marketing Principles	3	EN200 may be taken concurrently
STA	211	Business Statistics	3	ENG 020
HOM	260	Food Safety	3	ENG280 or ENG 201
Specialization Course Requirements			**27 credits**	Grade must be C or higher in every Major Course
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
ACC	210	Principles of Accounting I	3	ENG020
ACC	215	Principles of Accounting II	3	ACC210
ACC	311	Intermediate Financial Accounting	3	ACC215 or ACC211
ACC	321	Cost Accounting	3	ACC215 or ACC211
ACC	371	Accounting Information Systems	3	ACC215
ACC	375	Government and Non-Profit Accounting	3	ACC215
ACC	444	Taxation	3	ACC311
ACC	420	Auditing	3	ACC311
ACC	415	Advanced Accounting	3	ACC311
Free Elective (200 level or above)			**6 credits**	
Other Requirements				
…….	…….	Language course Foreign	**3 credits**	

Bachelor of Business Administration in Accounting – Proposed Sequence of Study

(99 Credits)

First Year

Semester	Course Code		Credits	Prerequisites
Fall	ENG200	Writing Skills	3	ENG020
	ACC210	Principles of Accounting I	3	ENG020
	MGT201	Management Principles	3	ENG200 may be taken concurrently
	MAT221	Calculus and Applied Math for Business	3	ENG020 may be taken concurrently
	GER	General Education Course	3	
		Total	**15**	
Spring	ENG201	Rhetoric I	3	ENG200
	ACC215	Principles of Accounting II	3	ACC210
	MKT201	Marketing Principles	3	ENG200 may be taken concurrently
	STA211	Business Statistics	3	ENG020
	Elec 2*	Free Elective	3	
		Total	**15**	

Second Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	REM308	Research Methodology	3	ENG201
	BUS230	Business Law	3	
	ECO201	Microeconomics	3	ENG280 or ENG201 may be taken concurrently
	HOM260	Food Safety	3	ENG280 or ENG201
	FIN221	Managerial Finance	3	ACC215
	ACC311	Intermediate Financial Accounting	3	ACC215
		Total	**18**	
Spring	HUM318	Human Rights	3	ENG200
	BUS310	Quantitative Methods for Business Decisions	3	MAT221
	ECO202	Macroeconomics	3	ENG280 or ENG201
	GER	General Education Course	3	
	ACC375	Governmental & Non-profit Accounting	3	ACC215
	ACC321	Cost Accounting	3	ACC215
		Total	**18**	

Third Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	ENT301	Start-up Business Entrepreneurship	3	ENG280 or ENG201,
	HRM320	Human Resources Management	3	MGT201
	ACC371	Accounting Information Systems	3	ACC215
	ACC444	Taxation	3	ACC311
	MIS360	Management Information Systems	3	MGT201
	BUS491	Internship I	1	Senior Standing
		Total	**16**	
Spring	ACC415	Advanced Accounting	3	ACC311
	ACC420	Auditing	3	ACC311
		Foreign language	3	
	PED	Physical Education	1	
		Total	**10**	
Summer	Elec 2*	Free Elective	3	
	BUS210	Business Communication Skills	3	ENG280 or ENG201
	BUS215	Presentation Skills	1	BUS215 may be taken concurrently
		Total	**7**	

Bachelor of Business Administration in Finance

(99 Credits)

The program of Finance prepares graduates for professional positions in economic analysis and research, financial management, financial institutions, investments, and capital markets. Graduates learn and apply basic analytical and statistical tools used in economics and finance, including accounting skills.

Bachelor of Science in Finance (LSE) (102 credits) This is a unique opportunity for students to study the curriculum of the London School of Economics and Political Science and get two degrees, the first awarded by the University of London and simultaneously receive a second degree, the Bachelor of Business Administration (BBA) awarded by the American University of Technology (AUT), Lebanon.

Careers

In the financial sector can be highly lucrative, which helps explain why they are in such great demand. The finance sector is expected to continue to grow and finance professionals are often required to possess specific educational degrees and skill sets. Furthermore, the finance industry has various opportunities that cater to different skill sets and interests. That includes jobs as an investment banker, actuary, portfolio manager, quantitative analyst, securities trader, financial planner, financial analyst, and economic analyst.

General Education Requirements			**26 credits**	
Major Core Requirements			**40 credits**	
Code	**Course #**	**title**	**Credits**	**Prerequisites**
ACC	210	Principles of Accounting I	3	ENG020
ACC	215	Principles of Accounting II	3	ACC210
BUS	230	Business Law	3	MGT201
BUS	310	Quantitative Methods for Business Decisions	3	MAT221
BUS	491	Internship	1	Senior Standing
ECO	201	Microeconomics	3	ENG280 or ENG201 may be taken concurrently
ECO	202	Macroeconomics	3	ENG280 or ENG201
MAT	221	Calculus & Applied Math for Business	3	ENG020 may be taken concurrently
MGT	201	Management Principles	3	ENG200 may be taken concurrently
HRM	320	Human Resources Management	3	MGT201
MIS	360	Management Information Systems	3	MGT201
MKT	201	Marketing Principles	3	ENG200 maybe be taken concurrently
STA	211	Business Statistics	3	ENG020
HOM	260	Food Safety	3	ENG280 or ENG201

Specialization Course Requirements			**24 credits**	**Prerequisites**
Code	Course #	Title	Credits	
FIN	221	Managerial Finance	3	ACC215
FIN	310	Financial Markets	3	FIN221 may be taken concurrently
FIN	340	Investment Analysis	3	FIN221
FIN	350	International Finance	3	FIN221
FIN	360	Financial laboratory	3	FIN310
FIN	411	Bank Management & Credit Analysis	3	FIN310
FIN	425	Financial Risk Management	3	FIN310
FIN	440	Financial Derivatives	3	FIN310

Free Elective (200 level or above)			**6 credits**	
Other Requirements				
…….	…….	Language course Foreign	**3 credits**	

Bachelor of Business Administration in Finance – Proposed Sequence of Study

(99 Credits)

First Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	ENG200	Writing Skills	3	ENG020
	ACC210	Principles of Accounting I	3	ENG020
	MGT201	Management Principles	3	ENG200 may be taken concurrently
	MAT221	Calculus and Applied Math for Business	3	ENG020 may be taken concurrently
	GER	General Education Course	3	
		Total	**15**	
Spring	ENG201	Rhetoric I	3	ENG200
	ACC215	Principles of Accounting II	3	ACC210
	MKT201	Marketing Principles	3	ENG200 may be taken concurrently
	STA211	Business Statistics	3	ENG020
	Elec 2*	Free Elective	3	
		Total	**15**	

Second Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	REM308	Research Methodology	3	ENG201
	BUS230	Business Law	3	
	ECO201	Microeconomics	3	ENG280 or ENG201 may be taken concurrently
	HOM260	Food Safety	3	ENG280 or ENG201
	FIN221	Managerial Finance	3	ACC215
	FIN310	Financial Markets	3	FIN221 may be taken concurrently
		Total	**18**	
Spring	HUM318	Human Rights	3	ENG200
	BUS310	Quantitative Methods for Business Decisions	3	MAT221
	ECO202	Macroeconomics	3	ENG280 or ENG201
	GER	General Education Course	3	
	FIN340	Investment Analysis	3	FIN221
	FIN350	International Finance	3	FIN221
		Total	**18**	

Third Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	ENT301	Start-up Business Entrepreneurship	3	ENG280 or ENG201
	HRM320	Human Resources Management	3	MGT201
	MIS360	Management Information Systems	3	MGT201
	BUS491	Internship I	1	Senior Standing
	FIN360	Financial Laboratory	3	FIN310
	FIN411	Bank Management & Credit Analysis	3	FIN310
		Total	**16**	
Spring		Foreign language	3	
	FIN440	Financial Derivatives	3	FIN310
	FIN425	Financial Risk Management	3	FIN310
	PED	Physical Education	1	
		Total	**10**	
Semester	Course Code	**Title**	**Credits**	**Prerequisites**
Summer	Elec 2*	Free Elective	3	
	BUS210	Business Communication Skills	3	ENG280 or ENG201
	BUS215	Presentation Skills	1	BUS210 may be taken concurrently
		Total	**7**	

Bachelor of Business Administration in Hospitality Management

(99 Credits)

The Hospitality Management Program provides students with academic skills, coupled with the practical know-how needed to succeed in the hotel and restaurant industries. Several courses will have a practical component to be completed at hotels and restaurants, for practical skills to be acquired in accordance with market requirements. For this, AUT maintains training programs in major hotels both within and outside Lebanon.

Careers

Opportunities abound for hospitality management students who have a passion for service in the hospitality business.

A career in hospitality management and operations can take you around the world and immerse you in the hotel and restaurant industry. In addition, hospitality is an industry that involves administrative, operational, and commercial capabilities in the business of travel and tourism entertainment, as well as food and beverage, real estate, financial services, event management and marketing and technology sectors.

General Education Requirements			**26 credits**	
MAJOR REQUIREMENTS				
1. Business Requirements - (40 credits)				
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
ACC	210	Principles of Accounting I	3	ENG020
ACC	215	Principles of Accounting II	3	ACC210
BUS	230	Business Law	3	
BUS	310	Quantitative Methods for Business	3	MAT221
BUS	491	Internship	1	Consent of Dept.
ECO	201	Microeconomics	3	ENG280 or ENG201
FIN	221	Managerial Finance	3	ACC215
ECO	202	Macroeconomics	3	ENG280 or ENG201
HRM	320	Human Resources Management	3	MGT201
MAT	221	Calculus & Applied Math for Business	3	ENG020 may be taken concurrently
MGT	201	Management Principles	3	ENG 200 may be taken concurrently
MKT	201	Marketing Principles	3	ENG200 may be taken concurrently
MIS	360	Management Information Systems	3	MGT201
STA	211	Business Statistics	3	ENG020
2. Emphasis Requirements - (31 credits)				
Code	Course #	Title	Cr	Prerequisites
HOM	201	Int. to Hospitality Management	3	ENG 200 may be taken concurrently
HOM	220	Food Services Production & operation	3	HOM 201
HOM	230	Housekeeping	3	HOM 201
HOM	330	Esthetics Etiquette and Protocol	3	MGT 201or HOM201
HOM	260	Food Safety	3	ENG280 or ENG201
HOM	325	Restaurant Operation Management	3	HOM201
HOM	321	Food, Beverage, and Labor Cost Control	3	HOM325
HOM	322	Front Office Information System	3	HOM201
HOM	324	Internship II	1	Consent of Dept.
HOM	399	Hosp. Architecture and Design	3	HOM325
HOM	427	Sales & Marketing in the Hospitality Industry	3	MKT201, HOM201

3. Free Electives - (3 credits)		
Free Elective (200 level or above)	**3**	

Bachelor of Business Administration in Hospitality Management – Proposed Sequence of Study (99 Credits)

First Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	ENG200	Writing Skills	3	ENG020
	ACC210	Principles of Accounting I	3	ENG020
	MGT201	Management Principles	3	ENG200 may be taken concurrently
	MAT221	Calculus and Applied Math for Business	3	ENG020 may be taken concurrently
	GER	General Education Course	3	
		Total	**15**	
Spring	ENG201	Rhetoric I	3	ENG200
	ACC215	Principles of Accounting II	3	ACC210
	MKT201	Marketing Principles	3	ENG200 may be taken concurrently
	STA211	Business Statistics	3	ENG020
	HOM201	Int. to Hospitality Management	3	ENG200
		Total	**15**	

Second Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	REM308	Research Methodology	3	ENG201
	BUS230	Business Law	3	
	ECO201	Microeconomics	3	ENG280 or ENG201 may be taken concurrently
	FIN221	Managerial Finance	3	ACC215
	HOM325	Restaurant Operation Management	3	HOM201
	HOM260	Food Safety	3	ENG280 or ENG201
		Total	**18**	
Spring	HOM330	Esthetics Etiquette and Protocol	3	ENG200
	BUS310	Quantitative Methods for Business Decisions	3	MAT221
	ECO202	Macroeconomics	3	ENG280 or ENG201
	GER	General Education Course	3	
	HOM230	Housekeeping	3	HOM201
	HOM220	Food Services Production & operation	3	HOM201
		Total	**18**	

Third Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	ENT301	Start-up Business Entrepreneurship	3	ENG280 or ENG201
	HRM320	Human Resources Management	3	MGT201
	HOM321	Food, Beverage and Labor Cost Control	3	HOM325
	HOM322	Front Office Information System	3	HOM201
	MIS360	Management Information System	3	MGT201
	BUS491	Internship	1	Senior Standing
		Total	**16**	
Spring	HOM324	Internship II	1	BUS491
	HOM399	Hospitality Architecture & Design	3	HOM325
	HOM427	Sales & Marketing in the Hospitality Industry	3	MKT201, HOM201
	PED	Physical Education I	1	
	HUM318	Human Rights	3	ENG200
Semester	**Course Code**	**Title**	**Credits**	**Prerequisites**
Summer	Elec 2*	Free Elective	3	
	BUS210	Business Communication Skills	3	ENG280 or ENG201
	BUS215	Presentation Skills	1	BUS210 may be taken concurrently
		Total	**7**	

Bachelor of Business Administration in Management

(99 Credits)

The program fosters analytical thinking and strategic decision-making skills, preparing students for leadership roles across diverse industries. It equips them with essential competencies in management, analysis, and effective organizational planning.

Careers

Employment opportunities include general management positions in manufacturing, distributing, and service industries, staff positions in human resources management and industrial relations departments, and management positions in transportation and physical distribution.

General Education Requirements			**26 credits**	
Major Core Requirements			**40 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
ACC	210	Principles of Accounting I	3	ENG020
ACC	215	Principles of Accounting II	3	ACC210
BUS	230	Business Law	3	
BUS	310	Quantitative Methods for Business Decisions	3	MAT221
BUS	491	Internship	1	Senior Standing
ECO	201	Microeconomics	3	ENG280 or ENG201 may be taken concurrentl
ECO	202	Macroeconomics	3	ENG280 or ENG201
FIN	221	Managerial Finance	3	ACC215
HRM	320	Human Resources Management	3	MGT201
MAT	221	Applied Math for Business & Calculus	3	ENG020
MIS	360	Management Information Systems	3	MGT201
MKT	201	Marketing Principles	3	ENG 200 may be taken concurrently
STA	211	Business Statistics	3	ENG020
HOM	260	Food Safety	3	ENG280 or ENG201

Specialization Course Requirements			**24 credits**	Grade must be C or higher in every Major Course
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
MGT	201	Management Principles	3	ENG200 may be taken concurrently
MGT	310	Total Quality Management	3	MGT201
MGT	325	Management of Small Enterprises	3	MGT201
MGT	362	Operations Management	3	MGT201
MGT	370	International Management	3	MGT201
MGT	420	Strategic Management	3	MGT 362
MGT	460	Organizational Behavior	3	MGT201
MGT	472	Leadership	3	MGT201
Free Elective (200 level or above)			**6 credits**	

Other Requirements				
.....	.....	Language course Foreign	**3 credits**	

Bachelor of Business Administration in Management – Proposed Sequence of Study

(99 Credits)

First Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	ENG200	Writing Skills	3	ENG020
	ACC210	Principles of Accounting I	3	ENG020
	MGT201	Management Principles	3	ENG200 may be taken concurrently
	MAT221	Calculus and Applied Math for Business	3	ENG020 may be taken concurrently
	GER	General Education Course	3	
		Total	**15**	
Spring	ENG201	Rhetoric I	3	ENG200
	ACC215	Principles of Accounting II	3	ACC210
	MKT201	Marketing Principles	3	ENG200 may be taken concurrently
	STA211	Business Statistics	3	ENG020
	Elec 2*	Free Elective	3	
		Total	**15**	

Second Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	REM308	Research Methodology	3	ENG201
	BUS230	Business Law	3	
	ECO201	Microeconomics	3	ENG280 or ENG201 may be taken concurrently
	HOM260	Food Safety	3	ENG280 or ENG201
	FIN221	Managerial Finance	3	ACC215
	MGT325	Management of Small Enterprises	3	MGT 01
		Total	**18**	
Spring	HUM318	Human Rights	3	ENG200
	BUS310	Quantitative Methods for Business Decisions	3	MAT221
	ECO202	Macroeconomics	3	ENG280 or ENG201
	GER	General Education Course	3	
	MGT370	International Management	3	MGT201
	MGT310	Total Quality Management	3	MGT201
		Total	**18**	

Third Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	ENT301	Start-up Business Entrepreneurship	3	ENG280 or ENG201
	HRM320	Human Resources Management	3	MGT201
	MGT362	Operations Management	3	MGT201
	MGT420	Strategic Management	3	MGT362
	MIS360	Management Information System	3	MGT201
	BUS491	Internship	1	Senior Standing
		Total	**16**	
Spring				
	PED201	Physical Education	1	
	MGT460	Organizational Behavior	3	MGT201
	MGT472	Leadership	3	MGT201
		Foreign Language	3	
		Total	**10**	
Semester	Course Code	**Title**	**Credits**	
Summer	Elec 2*	Free Elective	3	
	BUS210	Business Communication Skills	3	ENG280 or ENG201
	BUS215	Presentation Skills	1	BUS210 may be taken concurrently
		Total	**7**	

Bachelor of Business Administration in Management Information Systems

(99 Credits)

The Management Information Systems major is concerned with the application of information technology to solve business problems and support organizational functions. It includes hands-on instruction on the use of computer- based productivity tools for effective organization, development and administration of business and other organizations. Students receive both theoretical and practical preparation for a variety of responsible managerial and specialist positions.

Careers

Employment opportunities include general management positions in manufacturing, distribution, and service industries, staff positions in human resource management and industrial relations departments and management positions in transportation and physical distribution.

General Education Requirements			**26 credits**	
Major Core Requirements			**40 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
ACC	210	Principles of Accounting I	3	ENG020
ACC	215	Principles of Accounting II	3	ACC210
BUS	230	Business Law	3	
BUS	310	Quantitative Methods for Business Decisions	3	MAT221
BUS	491	Internship	1	Senior Standing
ECO	201	Microeconomics	3	ENG280 or ENG201 may be taken concurrently
ECO	202	Macroeconomics	3	ENG280 or ENG 201
FIN	221	Managerial Finance	3	ACC215
MAT	221	Calculus & Applied Math for Business Decisions	3	ENG020 may be taken concurrently
MGT	201	Management Principles	3	ENG200
HRM	320	Human Resources Management	3	MGT201
MKT	201	Marketing Principles	3	ENG200
STA	211	Business Statistics	3	ENG020
HOM	260	Food Safety	3	ENG280 or ENG201
Specialization Course Requirements			**24 credits**	Grade must be C or higher in every Major Course
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
MIS	202	Business Programming &Web Applications	3	CSC201, ENG200
MIS	221	Networking & Information Infrastructure	**3**	MIS202
MIS	316	Database Management Systems	3	MIS202, MIS316 will be taken concurrently
MIS	319	Management of Business Telecom	3	MIS221
MIS	325	Business System Analysis	3	MIS202
MIS	360	Management Information Systems	3	MGT201
MIS	411	MIS Project Management	3	MIS360 may be taken concurrently
MIS	430	Application Database Management - Senior	3	MIS411 may be taken concurrently
Free Elective (200 level or above)			**6 credits**	
Other Requirements				
.....	.....	Language Course - Foreign	**3 credits**	

Bachelor of Business Administration in Management Information Systems – Proposed Sequence of Study

(99 Credits)

First Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	ENG200	Writing Skills	3	ENG020
	ACC210	Principles of Accounting I	3	ENG020
	MGT201	Management Principles	3	ENG200 may be taken concurrently
	MAT221	Calculus and Applied Math for Business	3	ENG020 may be taken concurrently
	GER	General Education Course	3	
		Total	**15**	
Spring	ENG201	Rhetoric I	3	ENG200
	ACC215	Principles of Accounting II	3	ACC210
	MKT201	Marketing Principles	3	ENG200 may be taken concurrently
	STA211	Business Statistics	3	ENG020
	MIS202	Business Programming & Web Applications	3	CSC201
		Total	**15**	

Second Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	REM308	Research Methodology	3	ENG201
	BUS230	Business Law	3	
	ECO201	Microeconomics	3	ENG 280 or ENG 201 may be taken concurrently
	HOM260	Food Safety	3	ENG280 or ENG201
	FIN221	Managerial Finance	3	ACC215
	MIS221	Networking & Information Infrastructure	3	MIS202
		Total	**18**	
Spring	HUM318	Human Right	3	
	BUS310	Quantitative Methods for Business Decisions	3	MAT221
	ECO202	Macroeconomics	3	ENG200
	GER	General Education Course	3	
	MIS316	Database Management System	3	MIS202
	MIS325	Business System Analysis	3	MIS202
		Total	**18**	

Third Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	ENT301	Start-up Business Entrepreneurship	3	ENG280 or ENG201
	HRM320	Human Resources Management	3	MGT201
	MIS360	Management Information Systems	3	MGT201
	BUS491	Internship I	1	Senior Standing
	Elec 2*	Free Elective	3	
	MIS411	MIS Project Management	3	MIS360
		Total	**16**	
Spring	FL	Foreign language	3	
	PED	Physical Education	1	
	MIS319	Management of Business Telecom	3	MIS221
	MIS430	Application Database Management - Senior	3	MIS411
		Total	**10**	
Semester		**Title**	**Credits**	**Prerequisites**
Summer	Elec 2*	Free Elective	3	
	BUS210	Business Communication Skills	3	
	BUS215	Presentation Skills	1	BUS210 may be taken concurrently
		Total	**7**	

Bachelor of Business Administration in Marketing

(99 Credits)

This field is concerned with both the role of marketing and advertising in business and society and the decision process in domestic and international settings. Students receive both theoretical and practical preparation for different positions in marketing and advertising.

Careers

Careers in marketing and advertising includes positions as social media specialist, digital marketing coordinator, marketing analysist, content marketer, marketing strategist, event planner, market researcher, account manager and consumer marketing specialist.

General Education Requirements			**26 credits**	
Major Core Requirements			**40 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
ACC	210	Principles of Accounting I	3	ENG020
ACC	215	Principles of Accounting II	3	ACC210
BUS	230	Business Law	3	
BUS	310	Quantitative Methods for Business	3	MAT221
BUS	491	Internship	1	Senior Standing
ECO	201	Microeconomics	3	ENG280 or ENG201 maybe be taken concurrently
ECO	202	Macroeconomics	3	ENG280 or ENG201
FIN	221	Managerial Finance	3	ACC215
MAT	221	Calculus & Applied Math for Business Decisions	3	ENG 020 may be taken concurrently
MGT	201	Management Principles	3	ENG200 may be taken concurrently
HRM	320	Human Resources Management	3	MGT201
MIS	360	Management Information Systems	3	MGT201
STA	211	Business Statistics	3	ENG020
HOM	260	Food Safety	3	ENG280 or ENG201

Specialization Course Requirements			**24 credits**	Grade must be C or higher in every Major Course
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
MKT	201	Marketing Principles	3	ENG200 may be taken concurrently
MKT	310	Consumer Behavior	3	MKT201
MKT	320	Sales Management	3	MKT201
MKT	340	Advertising Principles	3	MKT310
MKT	350	Marketing Management	3	MKT201
MKT	420	Marketing Research	3	MKT 350
MKT	450	Integrated Advertising Communication	3	MKT340
MKT	460	Customer Service Management	3	MGT201

Free Elective (200 level or above)	**6 credits**	

Other Requirements				
…….	…….	Language Course - Foreign	3 credits	

Bachelor of Business Administration in Marketing– Proposed Sequence of Study

(99 Credits)

First Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	ENG200	Writing Skills	3	ENG020
	ACC210	Principles of Accounting I	3	ENG020
	MGT201	Management Principles	3	ENG200 may be taken concurrently
	MAT221	Calculus and Applied Math for Business	3	ENG020 may be taken concurrently
	GER	General Education Course	3	
		Total	**15**	
Spring	ENG201	Rhetoric I	3	ENG200
	ACC215	Principles of Accounting II	3	ACC210
	MKT201	Marketing Principles	3	ENG200 may be taken concurrently
	STA211	Business Statistics	3	ENG020
	Elec 2*	Free Elective	3	ENG020
		Total	**15**	

Second Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	REM308	Research Methodology	3	ENG201
	BUS230	Business Law	3	
	ECO201	Microeconomics	3	ENG201 may be taken concurrently
	HOM260	Food Safety	3	ENG280 or ENG201
	FIN221	Managerial Finance	3	ACC215
	MKT320	Sales Management	3	MKT201
		Total	**18**	
Spring	HUM318	Human Right	3	ENG200
	BUS310	Quantitative Methods for Business Decisions	3	MAT221
	ECO202	Macroeconomics	3	ENG201
	GER	General Education Course	3	
	MKT310	Consumer Behaviors	3	MKT201
	MKT340	Advertising Principles	3	MKT201
		Total	**18**	

Third Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	ENT301	Start-up Business Entrepreneurship	3	ENG280 or ENG201
	HRM320	Human Resources Management	3	MGT201
	MIS360	Management Information Systems	3	MGT201
	BUS491	Internship I	1	Senior Standing
	MKT350	Marketing Management	3	MKT201
	MKT450	Integrated Adverting Communication	3	MKT340
		Total	**16**	
Spring		Foreign language	3	
	PED	Physical Education	1	
	MKT420	Marketing Research	3	MKT350
	MKT460	Customer Service Management	3	MGT201
		Total	**10**	
Semester	Course Code	**Title**	**Credits**	**Prerequisites**
Summer	Elec 2*	Free Elective	3	Will be offered summer
	BUS210	Business Communication Skills	3	ENG280 or ENG201
	BUS215	Presentation Skills	1	BUS210 may be taken concurrently
		Total	**7**	

Bachelor of Business Administration in Transport Management and Logistics

(99 Credits)

The degree program emphasizes knowledge and understanding of the elements of Transport Management and Logistics. It emphasizes issues concerning marine transportation and the economics of marine transportation and shipping.

Careers

Possible careers a graduate can pursue with a degree in transportation and logistics: Analysist, Logistic engineer, Customer service, Logistics manager, and Supply chain manager.

General Education Requirements			**26 credits**	
Major Core Requirements			**40 credits**	
Code	Course #	Title	Cr	Prerequisites
ACC	210	Principles of Accounting I	3	ENG020
ACC	215	Principles of Accounting II	3	ACC210
BUS	230	Business Law	3	MGT201
BUS	310	Quantitative Methods for Business Decisions	3	MAT221
BUS	491	Internship	1	Senior Standing
ECO	201	Microeconomics	3	ENG280 or ENG201 may be taken concurrently
ECO	202	Macro Economics	3	ENG201 or ENG280
FIN	221	Managerial Finance	3	ACC215
MAT	221	Calculus & Applied Math for Business	3	ENG020
MGT	201	Management Principles	3	ENG200 may be taken concurrently
HRM	320	Human Resources Management	3	MGT201
MIS	360	Management Information Systems	3	MGT201
MKT	201	Marketing Principles	3	ENG200 may be taken concurrently
STA	211	Business Statistics	3	ENG020

Specialization Course Requirements			**24 credits**	
Code	Course #	Title	Cr	Prerequisites
TRM	201	Introduction to Transport Economics and Policy	3	ENG280 or ENG201 may be taken concurrently
TRM	211	Elements of Maritime Law	3	TRM201
TRM	221	Elements of Marine Technology	3	TRM201
TRM	301	Shipping Economics and Management	3	ECO201 may be taken concurrently
TRM	321	Ports Economics and Management	3	TRM301
TRM	332	Shipping and Transport Finance	3	may be taken concurrently FIN221 & TRM201
TRM	410	Logistics & Supply Chain Management	3	TRM201
TRM	421	Maritime Logistics	3	TRM321

Free Elective (200 level or above)			**6 credits**	

Other Requirements				
.....	.....	Language Course – Foreign	**3 credits**	

Bachelor of Business Administration in Management: Transport &Logistics (Concentration) – Proposed Sequence of Study

(99 Credits)

First Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	ENG200	Writing Skills	3	ENG020
	ACC210	Principles of Accounting I	3	ENG020
	MGT201	Management Principles	3	ENG 200 may be taken concurrently
	MAT221	Calculus and Applied Math for Business	3	ENG020 may be taken concurrently
	GER	General Education Course	3	
		Total	**15**	
Spring	ENG201	Rhetoric I	3	ENG200
	ACC215	Principles of Accounting II	3	ACC210
	MKT201	Marketing Principles	3	ENG200 may be taken concurrently
	STA211	Business Statistics	3	ENG020
	TRM201	Intro. to Transport Economics & Policy	3	ENG201 may be taken concurrently
		Total	**15**	

Second Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	REM308	Research Methodology	3	ENG201
	BUS230	Business Law	3	Will be delivered also in Prep. year
	ECO 201	Microeconomics	3	ENG280 or ENG201 may be taken concurrently
	FIN 221	Managerial Finance	3	ACC215
	TRM301	Shipping Economics and Management	3	ECO201 may be taken concurrently
	TRM221	Elements of Marine Technology	3	TRM201
		Total	**18**	
Spring	BUS310	Quantitative Methods for Business Decisions	3	MAT221
	ECO202	Macroeconomics	3	**ENG280 or ENG201**
	GER	General Education Course	3	
	HUM318	Human Rights	3	ENG200
	TRM321	Ports Economics and Management	3	TRM301
	TRM211	Element of Maritime Law	3	TRM201
		Total	**18**	

Third Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	ENT301	Start-Up Business Entrepreneurship	3	ENG280 or ENG201
	HRM320	Human Resources Management	3	MGT201
	Elec 2*	Free Elective	3	
	TRM332	Shipping and Transport Finance	3	may be taken concurrently FIN221 & TRM201
	BUS491	Internship	1	Senior Standing
	MIS360	Management Information System	3	MGT201
		Total	**16**	
Spring		Foreign Language	3	
	TRM421	Maritime Logistics	3	TRM321
	TRM410	Logistics and Supply Chain Management	3	TRM201
	PED201	Physical Education	1	
		Total	**10**	
Semester	Course Code	**Title**	**Credits**	**Prerequisites**
Summer	Elec 2*	Free Elective	3	
	BUS210	Business Communication Skills	3	ENG280 or ENG201
	BUS215	Presentation Skills	1	BUS210 may be taken concurrently
		Total	**7**	

Graduate Programs

Mission Statement

The mission of the Graduate program consists of bridging the gap between academia and the marketplace through the integration of market challenges into its program. It also prepares its curricula to respond to the emerging needs of the local and regional markets; providing the market with total solutions via applications oriented education, executive training, consulting and research. Several graduate programs have been developed to cover a wide area of concentration and needs.

The **MBA program** is an innovative, market-driven program, designed to develop leaders who will create value for themselves and their organizations in a time of relentless change. It is a lock step, 39 credit hours that is fully accredited by the Ministry of Higher Education. Enrolling students will have the strategic skills and vision necessary to attain organizational and personal goals. The program's highly applied curriculum is built around a unique blend of analytical foundations, solution-based courses and action learning opportunities. Students have the opportunity of selecting a general or any of the fields of concentration that are unique in Lebanon and the region i.e. Accounting, Finance, Hospitality and, Management, Management Information Systems and Marketing.

A student may choose any program listed below:

A. The MBA degree with the following concentrations:
   1. Accounting 39 credits
   2. Finance 39 credits
   3. Hospitality Management 39 credits
   4. Management 39 credits
   5. Management Information Systems 39 credits
   6. Marketing 39 credits

The Program

The Core Requirements of the MBA program consist of 24 credits, covering essential topics such as Finance, Marketing, Accounting, Corporate Governance, Strategic Management, and Information Systems. These courses are designed to provide students with a comprehensive foundation in business theory and practice, equipping them with the knowledge and skills to excel in various business environments.

Upon completion of the core courses, students are required to select one of the Emphasis/Concentration Areas to specialize further and align their education with their career goals. Each emphasis offers a selection of courses that build upon the core knowledge and provide deeper insights into specific business areas.

Depending on their chosen option (Thesis or Project), students must complete either 9 credits (Thesis Option) or 12 credits (Project Option) from their selected emphasis.

Emphasis Areas:

- Accounting
- Finance
- Hospitality Management
- Management Information Systems (MIS)
- Management
- Marketing

Remedial Courses for Non-Business Background Students:

Students who do not have a business background are required to complete two remedial courses prior to starting the core MBA coursework. These courses are designed to cover foundational topics in management, marketing, accounting, and finance, helping students bridge any knowledge gaps.

The required remedial courses are:

- BUS 500: Survey of Management & Marketing (3 credits)
- BUS 510: Survey of Accounting & Finance (3 credits)

These courses provide a comprehensive introduction to key business concepts, ensuring that all students enter the MBA program with a solid understanding of the core disciplines.

Master of Business Administration Programs

(39 Credits)

Major Core Requirements			**24 credits**
Code	Course #	Title	Cr
ACC	605	Managerial Accounting	3
BUS	600	Quantitative Methods for Business Decisions	3
FIN	601	Corporate Finance	3
HRM	602	Strategic Human Resources Management	3
MGT	600	Corporate Governance	3
MGT	601	Strategic Management & Planning	3
MIS	602	Managing Information in Organizations	3
MKT	609	Strategic Marketing Management	3
		Total Credits Core courses	**24**
***BUS**	**690**	***** **MBA Thesis with 9 Credits** from the Emphasis	**6**
***MGT**	**689**	***** **MBA Project** with **12 Credits** from the Emphasis courses	**3**

Select one of the Emphasis or Concentration:

Emphasis – Accounting			**Select 9 or12 crs.**
ACC	603	Accounting Standards & Valuation Principles	3
ACC	606	Performance Evaluation & Budgeting Techniques	3
ACC	608	Advanced Corporate Accounting	3
ACC	613	Accounting Information Technology	3
Emphasis - Finance			**Select 9 or 12 crs**
FIN	605	Investment Analysis & Portfolio Management	3
FIN	606	Bank Management & Financial Regulations	3
FIN	607	Global Business Finance	3
FIN	608	Bank Credit and Risk Management	3
Emphasis - Hospitality Management			**Select 9 or 12 crs**
HOM	601	Revenue Strategies & Yield Management	3
HOM	602	Crisis Management in the Hospitality Industry	3
HOM	611	Sustainability Management in Hospitality	3
HOM	612	Hospitality Service Marketing & Ethics	3
Emphasis - Management Information Systems			**Select 9 or 12 crs**
MIS	605	Electronic Commerce	3
MIS	607	Customer Relationship Management	3
MIS	608	Knowledge Management	3
MIS	609	Business Intelligence & Information Security	3
Emphasis - Management			**Select 9 or 12 crs**
MGT	603	Managing Change in Organizations	3
MGT	608	Leadership	3
MGT	609	Organizational Development	3
MGT	613	Project Management	3
Emphasis - Marketing			**Select 9 or 12 crs**
MKT	604	Customer Behavior	3
MKT	608	Sales & Trade Promotion	3
MKT	615	Product & Brand Management	3
MKT	616	Digital Marketing Strategy	3
Two Remedial courses are required for non-business major background:			
BUS	500	Survey of Management & Marketing	3
BUS	510	Survey of Accounting & Finance	3

Course Descriptions

ACC210 Principles of Accounting I (3 credits) This segment presents the essential principles of financial accounting as applied in digital business operations. Students learn through direct experience with accounting software while studying real-world case studies. Students also learn how to record financial transactions and both summarize and analyse them. The course Prepares students for civic-minded, ethical financial decision-making.

Prerequisites: ENG020

ACC215 Principles of Accounting II (3 credits) This course broadens accounting principles through a study of managerial and cost accounting techniques. Students perform data analysis to create foundations for planning activities and strategic as well as budgetary decisions. The course Includes simulations to mirror workplace finance challenges. Students receive tools enabling them to innovate by leveraging financial insights.

Prerequisites: ACC210

ACC311 Intermediate Financial accounting (3 credits) The course enhances student knowledge about financial reporting principles and adherence to Generally Accepted Accounting Principles (GAAP). The course also examines how to measure income along with asset valuation methods and financial disclosure practices. Students employ technological tools to conduct analysis of authentic financial statements. The course finally readies students to take CPA exams and handle sophisticated financial roles.

Prerequisites: ACC215

ACC321 Cost accounting (3 credits) The course examines how costs behave and supports analysis that aids strategic decision-making processes. Students practice budget creation while learning standard costing methods alongside performing variance analysis. Digital simulations mirror manufacturing and service environments. Builds essential capabilities for starting businesses and improving operational processes.

Prerequisites: ACC215

ACC371 Accounting Information Systems (3 credits) The course examines how accounting systems function and operate within the digital landscape. The course also examines ERP systems alongside cybersecurity practices and internal control frameworks. Students utilize authentic technology platforms to conduct audits and produce reports. The course finally trains graduates to combine technological solutions with financial supervision.

Prerequisites: ACC215

ACC375 Governmental & Non-profit Accounting (3 credits) This course explains fund accounting methods for public organizations and non-profit entities. The curriculum stresses the importance of open financial management alongside responsible oversight of public funds. Through case studies students practice civic budget simulations to

understand governmental financial responsibilities. It finally fosters ethical leadership in mission-driven financial management.

Prerequisites: ACC215

ACC415 Advanced Accounting (3 credits) Advanced Accounting examines intricate topics which include consolidation procedures and management of international operations. Students explore mergers, partnerships, and international standards. Hands-on simulations train students to handle worldwide financial challenges. It finally develops strategic leadership skills for handling multiple accounting entities.

Prerequisites: ACC311

ACC420 Auditing (3 credits) The course teaches students about auditing standards together with risk assessment methods and evidence-based evaluation techniques. Through audit planning exercises students learn about internal controls and financial reporting methods. Students develop hands-on capabilities through case studies and audit software. The course trains students to maintain ethical standards and confidence in financial reporting.

Prerequisites: ACC311

ACC444 Taxation (3 credits) This course examines the principles of individual and corporate taxation through the lens of legal and ethical guidelines. Students utilize real-world software tools to understand and apply tax laws through case analysis techniques. Emphasis on compliance, planning, and policy implications. The educational approach trains students to manage intricate tax systems while upholding civic duties.

Prerequisites: ACC311

ACC603 Accounting Standards & Valuation Principles (3 credits) The course is an intensive study of the processes through which generally accepted accounting principles evolve. It develops the techniques that are essential in preparing, reading, interpreting, and using financial statements. This course helps students to analyze various financial entities and prepare a critical analysis of their competitive positions and to analyze specialized problems associated with financial accounting as well as matters relating to presentation and disclosure.

ACC605 Managerial Accounting (3 credits) This course covers the use of accounting information in interpreting, coordinating, and implementing management's policies, in measuring and evaluating performance, and in tactical and strategic planning for future business activity. Additionally, the course highlights cost accounting applications and techniques related to managerial decision making.

ACC606 Performance Evaluation & Budgeting Techniques (3 credits) This course seeks to create value for the organization by planning or shaping the organization's activities and by managing resources or people to achieve the organization's goals. Budgeting techniques can be effective tools in providing information and evaluating performances that is useful in decision making at all levels in the organization. This course helps students to foresee, to study trends and develop necessary strategies. Also this course helps students to examine the compliance or noncompliance of the results with the predetermined results. And therefore, students can highlight occurred deviations and find

out the causes that produced them, so that, if necessary, it can be reviewed and corrective measures can be applied.

ACC613 Accounting Information Technology (3 credits) This course focuses on the importance of communication and information systems and their role in accomplishing the objectives of financial, managerial, and tax accountingand auditing. This course helps students to understand how data is collected and transformed and to evaluate its reliability. Also it helps students to learn about the different activities in the business cycle and to evaluate the accountability and control system of the business.

BUS210 Business Communication Skills (3 credits) This is the final phase of the core mandatory English language element for all students. It is designed to take a student to the practical business/academic arena, using technical terms within preparations of documentation to personal professional presentation itself.

Prerequisites: ENG201

BUS215 Presentation Skills + Lab (1 credit) The aim of the course is to enhance the fact that are skills are important in business, sales and selling, training, teaching, lecturing and generally entertaining an audience. Developing the confidence and capability to give good presentations, and to stand up in front of an audience and speak well, are also extremely helpful competencies for self-development.

Corequisites: BUS210

BUS230 Business Law (3 credits) This course examines business law principles while emphasizing ethical entrepreneurship practices. Students investigate topics including contracts along with liability and employment law as well as digital business law. Through case studies and role-play students develop an enhanced grasp of civic and legal responsibilities. This course enables students to traverse intricate legal settings with self-assurance.

BUS200 Introduction to Business (3 credits) A practical introduction to business. Students learn basic concepts related to management, finance, economics, and accounting.

BUS310 Quantitative Methods for Business Decisions (3 credits) The course provides students with essential analytical tools to make informed business decisions based on data. The course enables students to utilize technology for business modelling as well as forecasting and optimization. Through Excel and industry-standard software students address tangible challenges. The course establishes essential skills for both strategic planning and entrepreneurial flexibility.

Prerequisites: MAT221

BUS491 Internship (1 credit) Provides students with practical work opportunities that directly support their career aspirations. Students apply classroom knowledge in professional settings. The course provides mentorship and reflective opportunities to improve both civic engagement and workplace preparedness. It strengthens job market preparation through experiential learning.

BUS500 Survey of Management & Marketing (3 credits) This course introduces students to the topics of management and marketing. Students will become familiar with the basic management theories and skills and will cover several case studies on management issues and special topics. In addition, marketing will be introduced to students with a detailed analysis of all the theories.

BUS510 Survey of Accounting & Finance (3 credits) This course aims at providing students with the basic Accounting and Finance concepts and techniques. It deals with the different aspects of measuring, summarizing, communicating and interpreting financial information of business enterprise. This course will cover the accounting of: inventories and the cost of goods sold, plant assets and depreciation, current liabilities, stockholders' equity, income and change in retained earnings. The statement of cash flows will also be checked. It will also cover the role of the financial manager and the techniques that are used for obtaining and using funds with the ultimate purpose of maximizing the value of the firm.

BUS600 Quantitative Methods for Business Decisions (3 credits) This course is organized to follow the logic of the business research process. It reflects the astonishing changes in information technology and which are emerging in research methodologies. Students will be exposed to the different phases of the research process, methodological foundations, research techniques and most importantly, data processing and research analysis using the latest versions of SPSS; thus, enabling them to turn raw statistical data into strategic information.

BUS689 MBA Thesis (3 credits)

ECO201 Microeconomics (3 credits) This course investigates decision-making processes of individuals and companies within competitive market environments. This course studies how supply and demand work alongside consumer behaviour patterns and different market structures. It adopts digital simulations to improve educational outcomes. It finally develops analytical thinking abilities crucial for creating innovative business solutions.

Prerequisites: ENG200

ECO202 Macroeconomics (3 credits) Investigates economic systems at national and global levels by analysing real-time data. It analyses GDP, inflation and unemployment metrics alongside policy development within digital environments. Students assess how economic changes affect business operations and societal dynamics. The curriculum develops graduates who understand international perspectives and practice ethical decision-making.

Prerequisites: ENG201

ENT301 Start-up Business Entrepreneurship (3 credits) Basic concepts of business start-up are introduced. Typical profiling of entrepreneurial business is analyzed, while essential components of the entrepreneurial spirit are highlighted. The basic definition of entrepreneurship is contrasted with the functions of management and of leadership. This course outlines the lifeline of a new business start-up, rom dream to reality, passing through the necessary stages of fireproofing, expansion, crisis, bankruptcy, and exit.

Prerequisites: ENG201

FIN221 Managerial Finance (3 credits) The Managerial Finance course teaches students financial planning and analysis methods alongside capital management strategies to achieve business success. Students utilize software applications to make investment and financing decisions. Students also experience real-world financial obstacles through hands-on projects designed for both entrepreneurial and corporate environments. It develops strategic thinking and responsible financial leadership.

Prerequisites: ACC215

FIN310 Financial Markets (3 credits) The course examines worldwide financial systems together with their instruments and operational market dynamics. Students utilize real-time platforms to examine market behaviour and financial trends along with market volatility. The study program emphasizes innovative developments within financial technology and electronic trading platforms. This course trains graduates to work in investment management jobs alongside trading positions and economic policy development.

Corequisites: FIN221

FIN340 Investment Analysis (3 credits) The course imparts knowledge on valuing stocks together with bonds and alternative asset classes through analytical methods. The course covers portfolio theory together with performance measurement techniques and ESG considerations. Students analyse real financial data through platforms such as Bloomberg and Excel. The course develops strategic thinking that leads to intelligent and sustainable investment choices.

Prerequisites: FIN221

FIN350 International Finance (3 credits) International Finance Addresses currency markets worldwide as well as exchange rate systems and financial institutions. The curriculum focuses on multinational risk management techniques alongside strategies for cross-border investment opportunities. Students conduct case studies and participate in simulations that examine global financial crises. The course develops the skills needed to lead successfully in today's digital and globally connected economic landscape.

Prerequisites: FIN221

FIN360 Financial Lab (3 credits) The course delivers practical experience with trading systems and market analytics software. Students engage in trading simulations along with constructing portfolios and analysing data in real time. Also students learn to connect theoretical finance concepts with practical industry applications. The course prepares students for careers in fintech banking and investment sectors.

Prerequisites: FIN310

FIN411 Bank Management & Credit Analysis (3 credits) This section investigates how banks and credit institutions implement strategic management practices. Students study how banks manage loans and balance assets against liabilities while learning about financial regulations. They will develop effective credit evaluation expertise through the use of practical tools and simulation exercises. This course equips students with necessary skills for professional roles in commercial banking and the broader financial services sector.

Prerequisites: FIN310

FIN425 Financial Risk Management (3 credits) It Investigates methods to discover, evaluate, and minimize financial risks. Students should focus on credit risk as well as market and operational risk by using tools such as Value at Risk assessments and hedging strategies. Case-based learning enables students to practice handling real-world crises. The course trains graduates to handle unpredictable situations within unstable financial markets.

Prerequisites: FIN310

FIN440 Financial Derivatives (3 credits) The course examines how to price and apply options, futures, and swaps as tools for risk management. Students employ financial software and case studies to create models for derivative strategies. The course also explores the significance of innovative approaches and speculative activities while addressing ethical issues within complicated financial markets. It Prepares graduates to handle advanced positions in trading and hedging as well as asset management.

Prerequisites: FIN310

FIN601 Corporate Finance (3 credits) This course covers the current developments in financial management and corporate finance and the underlying theories behind such practice, including critical evaluation of selected topics dealing with theoretical and applied aspects of the decision-making process in business and corporate finance.

FIN605 Investment Analysis & Portfolio Management (3 credits) This course consists of a study of investment opportunities for both the individual and corporate investor. It examines the valuation and use of different financialinstruments, risk-return tradeoff, asset pricing model and efficient market theory. The course also reviews capital structure theory, dividends policy, and modern portfolio theories.

FIN606 Bank Management and Financial Regulations (3 credits) The course reviews commercial bank management policies and procedures. It covers all aspects of bank risk management including assets and liabilities management,interest rates, liquidity, credit analysis, capital, exchange rates, profitability, and evaluates bank performance. It also covers the regulatory banking system, including central bank role and regulations, and monetary policy tools.

FIN607 Global Business Finance (3 credits) This course in International Finance is designed to benefit participants in international financial markets, whether that person is: (i) a CFO/General Manager of an MNE; (ii) a strategy consultant to MNEs; or (iii) an international investment or commercial banker. Students taking this course should expect to learn the nature and purposes of financial management in an international setting.

FIN608 Bank Credit and Risk Management (3 credits) This course reviews the operation and functions of commercial banks. It reviews the regulatory environment, credit analysis and decision-making, assets liabilities management, international and retail banking, and capital adequacy and liquidity indicators.

FIN610 Special Topics in Finance (3 credits) Critical analysis and discussion of financial topics, empirical research and applications. Review of evolving topics in scholarly literature, including contemporary issues and controversies.

HOM201 Introduction to Hospitality Management (3 credits) This course covers topics such as the concept of service, characteristics of the hospitality industry, hotel classifications and ownership, restaurant classifications, and managed services. Further, the course introduces topics such as the MICE industry, marketing, human resources, leisure, and recreation.

Corequisites: ENG200

HOM220 Food Service, Production & Operation (3 credits) The course provides instruction on commercial kitchen techniques alongside service operation technologies. Students perform practical tasks in production operations while learning to manage inventory and practice hygiene protocols. It prioritizes safety measures while maintaining sustainability practices and enhancing service flow efficiency. The course prepares culinary professionals to execute kitchen tasks with exacting precision.

HOM230 Housekeeping (3 credits) This course provides students with the principles of housekeeping management as they relate to the lodging industry. Topics of study include the role of the housekeeping department in lodging establishments, planning and organizing of the department, staffing and scheduling, managing inventories, cleaning functions and related duties, linen room and laundry management, environmental and energy management, safety and security issues, preparing and managing housekeeping budgets, and new trends and opportunities within this sector.

Prerequisites: HOM201

HOM260 Food Safety (3 credits) The course introduces essential standards and practical procedures to maintain food safety and hygiene. It examines how technology supports traceability systems and risk management processes through inspection methods. The application of real-world awareness and responsibility emerge through both fieldwork and case analysis. The course finally trains graduates to manage secure and enduring food systems.

Prerequisites: ENG201

HOM321 Food, Beverage & Labor Cost Control (3 credits) The Course instructs students on managing budgets and analysing costs for hospitality operations. Students use digital tools to track food waste as well as staffing levels and inventory expenses. Real-world situations require students to enhance both their performance levels and profitability outcomes. This course trains managers to deliver excellent customer service while maintaining efficient operations.

Prerequisites: HOM325

HOM322 Front Office Management (3 credits) The Front Office Management course examines front desk operations together with guest services and reservation systems. Hospitality software enables students to practice real-time check-in and check-out procedures. Emphasis on communication, problem-solving, and guest experience. The course develops students who can lead hotel front office operations.

Prerequisites: HOM201

HOM324 Hospitality Management Training (1 credit) Students have to spend a minimum of 65 days (7 Hrs./Day) in a 4 or 5-star hotel. Training should take place in the

Rooms Division Department (Front office, Reservations, Housekeeping or Laundry/Linen) or in a Travel Agency. Placement in hospitality institutions will be made in coordination with AUT department chairperson. **Consent of Dept.**

HOM325 Restaurant Operations Management (3 credits) The course addresses complete management of restaurant teams and service operations. Students study how to create menus while integrating technology and optimizing guest flow through practical exercises. Leadership skills develop through practical simulations and structured business planning exercises. This course equips students to assume leadership positions within food service businesses by teaching them essential managerial and entrepreneurial skills.

Prerequisites: HOM201

HOM330 Esthetics, Etiquette and Protocol (3 credits) The course centres around cultivating professional dress sense alongside effective communication skills and understanding cross-cultural protocols. Student training includes grooming procedures alongside fine dining etiquette practices and guest interaction methods. Simulations prepare learners for high-standard hospitality settings. It develops both social understanding and self-assurance for serving diverse cultural groups.

HOM399 Hospitality Architecture & Design (3 credits) The course examines how hospitality spaces can be planned efficiently while maintaining aesthetic appeal and functional design. Through digital tools students develop environments that prioritize guest experiences. Emphasis on sustainability, branding, and experiential design. Future professionals learn how to combine service vision principles with innovative spatial design.

Prerequisites: HOM325

HOM427 Sales & Marketing in Hospitality Industries (3 credits) This course highlights the promotion of hospitality services using marketing approaches based on data analytics. It includes lessons about branding development and customer retention along with digital marketing strategies and conversion rate optimization. During their study students learn to design and present campaigns by utilizing professional tools from the real world. Graduates acquire skills to draw and keep guests within the global competitive marketplace.

Prerequisites: MKT201, HOM201

HRM320 Human Resources Management (3 credits) Examines effective hiring practices alongside employee training programs and performance management systems as well as strategies for managing employee relations. Through digital tools students replicate HR procedures and work environment situations, prioritize ethical leadership practices and develop workplaces that promote inclusivity and productivity. It finally supports career readiness in people-centric, tech-enabled enterprises.

Prerequisites: MGT201

HRM341 Organizational Staffing & Selection (3 credits) This course examines all aspects of getting employees into organizations. It will explore all the various methods used in recruitment and selection. This course covers also the administrative and legal

aspects and examines the usefulness of various methods used in job analysis, testing and measurement, in addition to the internal and external market analysis.

Prerequisites: HRM320

HRM602 Strategic Human Resources Management (3 credits) It covers and explains how the Human Capital of organizations, is managed, and how the various roles the department of the Human Resources are played (in the conduct and success of the organization) such as Strategic Partner, a Champion of Employees, an Administrative Expert and as a Change Agent.

MGT201 Management Principles (3 credits) Students learn modern management techniques which prioritize innovative and ethical approaches. They study how to plan and organize tasks while leading teams and controlling processes within dynamic environments. The course emphasizes experiential projects and leadership simulations and prepares future managers for agile, tech-driven organizations.

Corequisites: ENG200

MGT310 Total Quality Management (3 credits) The course examines quality management frameworks such as Six Sigma and ISO within technology-focused industries. It emphasizes continuous improvement alongside customer satisfaction and innovation. Students undertake practical quality audits and redesign processes in real-world settings. This course prepares graduates to achieve high standards of leadership in operations and services.

Prerequisites: MGT201

MGT325 Management of Small Enterprises (3 credits) The course educates students on starting and maintaining successful entrepreneurial businesses while enabling them to scale their ventures. The essential part of the course examines lean start up frameworks alongside digital marketing tactics and financing approaches. Students create authentic business proposals and present them to pretend investors. It finally develops an innovative and resilient mind set while promoting local community effects.

Prerequisites: MGT201

MGT362 Operations Management (3 credits) Operations Management emphasizes the optimization of production systems and logistics while delivering efficient services. Through analytical tools students achieve process optimization while minimizing waste production. Hands-on real-time learning opportunities emerge from both software simulations and case studies. The course develops graduates who can steer value creation through intricate operational systems.

Prerequisites: MGT201

MGT370 International Management (3 credits) The course delves into leadership across cultures while teaching global strategic planning and techniques for entering new markets. Students study international trade policies while learning about global ethics and remote team management. Interactive projects promote both an understanding of global issues and entrepreneurial mind set development. This course prepares emerging leaders for professional paths within international and diverse corporate environments.

Prerequisites: MGT201

MGT420 Strategic Management (3 credits) This course develops student abilities to create long-term strategies and then put them into action and assess their effectiveness. The curriculum emphasizes competitive advantage alongside innovation and digital transformation techniques. Students simulate executive decision-making in fast-paced markets. Graduates will develop the ability to direct organizations with innovative vision and adaptable strategic thinking.

Prerequisites: MGT362

MGT460 Organizational Behavior (3 credits) The course analyses individual and group behaviour within organizations. It covers key organizational behaviour topics including motivation through to change management while students learn about communication and culture dynamics. The delivery method uses role-play activities along with feedback sessions and practical real-world situations to engage students. It also develops emotional intelligence and teamwork skills necessary for modern work environments.

Prerequisites: MGT201

MGT472 Leadership (3 credits) This course builds personal and organizational leadership abilities that drive impactful results. It explores transformational, ethical, and tech-driven leadership styles. Students develop leadership skills by evaluating actual leaders while practicing coaching techniques and leading their peer groups in projects. The course prepares graduates to drive transformation by inspiring others to take action and create meaningful change.

MGT600 Corporate Governance (3 credits) Corporate governance broadly refers to the mechanisms, processes and relations by which corporations are controlled and directed. Governance structures identify the distribution of rights and responsibilities among different participants in the corporation (such as the board of directors, managers, shareholders, creditors, auditors, regulators, and other stakeholders) and includes the rules and procedures for making decisions in corporate affairs. Corporate governance includes the processes through which corporations' objectives are set and pursued in the context of the social, regulatory and market environment. Governance mechanisms include monitoring the actions, policies and decisions of corporations and their agents. Corporate governance practices are affected by attempts to align the interests of stakeholders.

MGT601 Strategic Management & Planning (3 credits) This is a capstone course, which introduces students to strategic tools that will help them analyze the firm in its environment, with emphasis on formulation of policies and strategies and application of concepts through case studies and/or simulation exercises integrating all functional areas. Designed to develop skills in problem identification, analyses, and solutions, reporting and making oral and written presentations.

MGT603 Managing Change in Organizations (3 credits) The nature and sources of change, organizations may face, are examined and how to manage the change as a reaction to unexpected events (crisis) or as a planned proactive measure to expected events.

MGT608 Leadership (3 credits) It involves the understanding of the concept of Leadership in general. It also explains and compares the behavior and leadership styles displayed by the managers' who are appointed only by Upper Management, to those who

are also accepted by the followers. The behavior of managerial leaders is studied and approved as a practice of those who achieve desired results by willing employees effectively and efficiently.

MGT609 Organization Development (3 credits) An introductory course orbiting around ***Organization Development,*** to illuminate each key theory in the field, giving students the background they need to translate theory into action, make key choices, help organizations learn, and lead change. Coverage includes the following objectives such as "Understanding What OD is, where it came from, and where it is headed, Understanding OD as a process of change, Diagnosing organizational problems, Applying the model of organizational performance and change and, Assessing how well OD techniques work".

MGT613 Project Management (3 credits) This course enables students to gain competence in the specific techniques used by effective managers to lead projects of limited duration. The course covers both, the planning and implementation aspects of managing projects and leading them.

MIS202 Web Application & Business Programming (3 credits) Students learn essential programming principles and how to create business-focused web applications. Students develop also interactive solutions that focus on user experience by working with real-world platforms. Practical projects drive technological innovation and entrepreneurial initiatives in technology settings. The course trains the graduates to create dynamic digital tools for contemporary business organizations.

MIS221 Networking & Information Infrastructure (3 credits) This course teaches students how to build and manage network systems that provide both scalability and security. It also examines how cloud integration and cybersecurity solutions can be applied to IOT systems within business settings. Students engage with actual technology through practical laboratories and case study analysis. The course prepares students to lead digital transformation initiatives throughout various sectors.

MIS316 Database Management Systems (3 credits) Students learn how to design databases and manage their implementation and ongoing maintenance. Students develop relational database structures and execute SQL queries while maintaining data integrity. The coursework provides practical simulation of enterprise-scale data systems coupled with security requirements. It finally teaches students how to handle data as a vital strategic resource for organizations.

Prerequisites: MIS202

MIS319 Management of Business Telecommunication (3 credits) The course analyses telecommunication systems essential for global business operations. The content examines data transmission methods alongside voice technologies and mobile network systems. Students evaluate infrastructure using analysis of real-life cases and simulation exercises. The syllabus develops the skills required for students to become leaders in modern digital-centric workplaces.

Prerequisites: MIS221

MIS325 Business System Analysis (3 credits) The course teaches students how to analyse business systems and create models for organizational improvement. Case-driven projects enable students to practice solving real-world problems. The course includes

areas of system design as well as process mapping and requirements gathering. It enables students to connect technical solutions with broader strategic business targets.

Prerequisites: MIS202

MIS360 Management Information Systems (3 credits) MIS enables strategic decision-making by combining technological tools with human resources and operational processes. Students study enterprise systems alongside analytics and digital business models. Experiential learning improves when students participate in real-world simulations and teamwork-oriented projects. This course trains graduates to become leaders in technological advancements within data-intensive contexts.

Prerequisites: MGT201

MIS411 MIS Project Management (3 credits) The course teaches students the full life cycle of IT and MIS projects from planning through execution to evaluation. The course concentrates on agile methods together with stakeholder interaction and risk control techniques. Students manage simulated projects using industry-standard tools. The course develops leadership abilities necessary for successful implementation of digital transformation projects.

Prerequisites: MIS360

MIS430 Application Database Management (Senior Project) (3 credits) The course examines in-depth database development techniques alongside strategies for system optimization and database management skills. Students develop capstone projects to address sophisticated data problems within business environments. Data ethics and security principles with civic responsibility are embedded within all program areas. This course finally develops graduates with leadership capabilities for data-centric business settings.

Prerequisites: MIS411

MIS602 Managing Information in Organizations (3 credits) This course emphasizes the relationship between Information Technology (IT) and business processes and the importance of aligning business information systems with business strategy. By interacting with integrated enterprise system(s), this course helps students understand the modern IT-driven business value chain. The role of IT in organizational change and business transformation, IT history, and IT cultural issues are discussed. It also covers the different type of Information Systems that are most commonly used.

MIS605 Electronic Commerce (3 credits) This course In this course, we will attempt to understand the phenomena, technological, economic and social, behind these rapid changes, and how organizations successfully conduct Internet-based activities. We will also study some of the technology of the Internet, as described below. This course provides an advanced view of e-commerce from both technological and managerial perspectives. It introduces e- commerce frameworks, and technological foundations; and examines basic concepts such as strategic formulation for e-commerce enterprises, management of their capital structures and public policy.

MIS607 Customer Relationship Management (3 credits) This course will allow the learners to master Customer relationship management (CRM) which refers to practices, strategies and technologies that companies use to manage and analyze customer

interactions and data throughout the customer lifecycle, with the goal of improving business relationships with customers, assisting in customer retention and driving sales growth. It covers also the different components of CRM systems and how to implement it.

MIS608 Knowledge Management (3 credits) This course will emphasize on the role of knowledge management system in a successful business. It covers the types of systems that are widely used in big organizations as part of their knowledge management. During this course, we will discuss the business value of the major types in addition to the intelligent techniques of a KMS that will impact the business sustainability. The course covers how to strategically plan for knowledge management activities.

MIS609 Business Intelligence & Information Security (3 credits) The course aims at examining Business Intelligence (BI) as a broad category of applications and technologies for gathering, storing, analyzing, sharing and providing access to data to help enterprise users make better managerial decisions. You will learn the principles and best practices for how to use data in order to support fact-based decision making.

MKT201 Marketing Principles (3 credits) The course examines fundamental marketing ideas through the perspectives of digital technology and business entrepreneurship. It uses real-world tools teach students about branding alongside customer behaviour measurement and data analytics. The application of project-based learning establishes a link between theoretical concepts and contemporary market dynamics. Learners develop skills to generate value and connect with communities through inventive practices.

Prerequisites: ENG200

MKT310 Consumer Behavior (3 credits) The course examines psychological influences along with social elements and digital factors which motivate customer choices. Students examine authentic data and business scenarios to identify patterns in consumer behaviour. It prioritizes ethical marketing practices and inclusivity when designing campaigns for diverse cultural environments. It finally Equip marketers to establish profound connections with consumers through human-cantered branding.

Prerequisites: MKT201

MKT320 Sales Management (3 credits) Sales Management involves planning sales initiatives and organizing leadership tasks to succeed in competitive marketplaces. Students learn strategic approaches for digital sales operations and customer relationship management while developing team leadership abilities. Using role-playing and sales simulations enhances real-world skills to prepare graduates to drive revenue growth by leading customer-driven innovative solutions.

Prerequisites: MKT201

MKT340 Advertising Principles (3 credits) It provides foundational knowledge on advertising strategies that thrive in digital-centric environments. The course concentrates on creative development together with strategic media planning and the effectiveness of messaging. Students study advertising campaigns and produce personal ad projects. This course trains students to create advertising that makes social impact and fulfils ethical responsibilities.

Prerequisites: MKT201

MKT350 Marketing Management (3 credits) The course delivers an advanced level education in strategic marketing approaches used by international businesses. It emphasizes decision-making, analytics, and digital disruption. It uses marketing simulations enable students to address actual business challenges. It finally prepares future leaders to harness customer insights for business growth and innovation.

Prerequisites: MKT201

MKT420 Marketing Research (3 credits) The course teaches students how to develop market research projects and analyse their results. Students gain proficiency in using research methods including surveys and focus groups along with data analysis platforms. It emphasis on transforming data into actionable strategies. It also builds critical thinking for evidence-based decision-making.

Prerequisites: MKT350

MKT450 Integrated Advertising Communication (3 credits) The course teaches students to maintain consistent brand messaging throughout digital platforms and traditional media formats. Students create cohesive marketing campaigns by utilizing analytical tools and creative strategies. Coursework simulates agency and client collaboration. The course trains students to work in multi-channel communication positions within fast-evolving marketplaces.

Prerequisites: MKT340

MKT460 Customer Service Management (3 credits) The course builds leadership abilities for superior service quality in digital business settings. It examines CRM systems while teaching students to create service designs that enhance customer satisfaction. Students participate in real-world business tool simulations through case-based learning and role-playing exercises. The course finally enables professionals to transform customer service into a key business asset.

Prerequisites: MGT 201

MKT604 Consumer Behavior (3 credits) This course introduces students to the wheel of consumer analysis, i.e. affect and cognition, consumer behavior and environments and guidance as to the development of successful marketing strategies. The course draws on tools and concepts from psychology, sociology, economics, and related social sciences.

MKT608 Sales & Trade Promotion (3 credits) This course highlights the importance and role of sales and trade promotion in the marketing mix. The course is centered on the dynamics of sales promotional activity. All types of promotion are presented, discussed and evaluated with emphasis on pricing, profitability, consumer response and impact on brand sales, loyalty, image and equity.

MKT609 Strategic Marketing Management (3 credits) The course highlights the need for a strategic marketing approach to pull off in a market that is highly competitive and too demanding. The course focuses on the role of marketing within the overall business framework. The course will introduce the students to the different marketing tools and train them to use them along the marketing measurement kit in order to be able to set, execute and control marketing plans.

MKT615 Product and Brand Management (3 credits) This course teaches students how to build measure and manage a brand, which is needed to differentiate products and services in today's competitive environment. Building a brand value will lead to the creation of a long-term profitable relationship between a firm and its customers.

MKT616 Digital Marketing Strategy (3 credits) The course examines the fundamentals of digital marketing, which includes internet marketing strategies, user-generated content, search engine optimization, website design and management, inbound marketing, email marketing, social media campaigns, mobile apps, content strategy and paid search advertising. Students acquire critical thinking skills as they analyze case studies of various online marketing issues and actively participate in classroom discussions. The development of an innovative project will provide each student with the opportunity to share their experiences and expertise within their selected team.

TRM201 Introduction to Transport Economics and Policy (3 credits) Investigates economic concepts and public regulations that direct the structure of worldwide transport networks. Investment in infrastructure must be combined with pricing strategies and environmental sustainability measures. Case studies throughout the course bring together real-time global issues with digital technology. The course develops future leaders who will shape transport systems through policy influence and system efficiency management.

Corequisites: ENG201

TRM211 Elements of Maritime Law (3 credits) The course introduces the international legal frameworks that regulate the maritime industry. It examines essential elements of shipping contracts together with liability concerns and compliance regulations. Through simulated cases and the use of legal tech tools students' gain practical understanding of legal principles, the course provides students with essential skills needed to pursue professional paths in shipping law and regulatory compliance.

Prerequisites: TRM201

TRM221 Elements of Marine Technology (3 credits) The course examines important marine engineering systems along with forward-thinking innovations in ship design. It concentrates on safety standards combined with automation processes and new green marine technologies. Experiential learning is improved through hands-on labs and case analysis. Graduates receive training to start tech-centric maritime operation positions.

Prerequisites: TRM201

TRM301 Shipping Economics and Management (3 credits) Examines the structures of maritime markets and analyses pricing methods as well as fleet management tactics. Through the application of economic models and real-world data students practice simulation of decision-making processes. The course examines current movements toward digital freight platforms and decarbonisation efforts. Students learn strategic management skills essential for operating global shipping businesses.

Corequisites: ECO201

TRM321 Ports Economics and Management (3 credits) The course covers port operational methods alongside pricing policies and investment approaches and governance mechanisms. Students examine major global ports through simulations and

case study analysis. The curriculum emphasizes smart port technologies while integrating sustainability principles and examining global trade dynamics. The course also develops students' skills to lead operations within port logistics and urban systems integration.

Prerequisites: TRM301

TRM332 Shipping and Transport Finance (3 credits) The course analyses financial instruments used for fleet investment and risk management within the trade finance sector. It studies maritime insurance along with leasing services and digital financial advancements. The curriculum requires students to work with genuine financial case studies and decision-making models. It prepares professionals to excel in leadership positions within maritime finance and strategic operations.

Prerequisites: may be taken concurrently FIN221 & TRM201

TRM410 Logistics and Supply Chain Management (3 credits) The course covers strategic planning of worldwide supply networks and procurement alongside logistics performance enhancement. Students study digital applications including ERP systems as well as block chain technology and artificial intelligence platforms for logistics. It emphasis on sustainable and resilient supply networks. The course equips graduates with the skills necessary to navigate complex aspects of modern global trade.

Prerequisites: TRM201

TRM421 Maritime Logistics (3 credits) The course teaches students how to coordinate maritime transportation with intermodal logistics systems. Students examine maritime shipping systems alongside container handling technologies and efficiency enhancements through technological innovations. Case-based projects simulate the practical trade and operational challenges found in real-world scenarios. It equips students with the skills necessary for positions in global port-centred logistics systems.

Prerequisites: TRM321

WELCOME TO THE FACULTY OF APPLED SCIENCES AND TECHNOLOGY AT THE ANERICAN UNIVERSITY OF TECHNOLOGY

WE OFFER A WIDE RANGE OF DEGREE PEOGRAMS INCLUDING:

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- COMPUTER AND COMMUNICATION SCIENCE
- INFORMATION TECHNOLOGY
- NUTRITION AND DIETETICS
- WATER RESOURCES AND GEO - ENVIRONMENTAL SCIENCES

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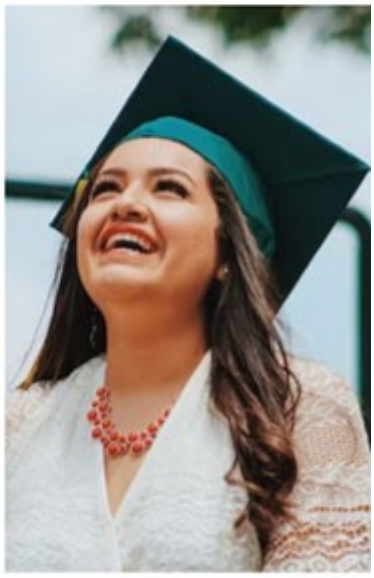

Faculty of Applied Sciences & Technology

Mission Statement

The Faculty of Applied Sciences and Technology at the American University of Technology is dedicated to providing exceptional undergraduate and graduate education that blends theoretical knowledge with practical application. Our mission is to cultivate critical thinkers, problem solvers, and ethical professionals who are prepared to address complex challenges in a rapidly evolving technological world through rigorous academic programs, cutting-edge research, and industry partnerships.

Competitive Advantages

- Hands-on learning provides students with campus-earned experience. Programs include extensive research projects to get students prepared for professional success
- The campus infrastructure allows state-of-the-art technology equipment at the disposal of students
- Students are encouraged to innovate and test new concepts and ideas.
- Emphasis is placed on acquiring a strong theoretical background coupled with extensive practical know-how.
- **Hands-on Learning and Research:** Students gain invaluable practical experience through extensive research projects, preparing them to excel in their careers.
- **State-of-the-Art Infrastructure:** Our cutting-edge technology equipment provides students with the tools to innovate and solve real-world problems.
- **Innovation and Entrepreneurship:** We foster a culture of creativity and risk-taking, empowering students to develop new ideas and bring them to life through our dedicated innovation lab and industry partnerships.
- **Strong Theoretical Foundation:** Our rigorous curriculum ensures students acquire a deep understanding of fundamental principles, complemented by hands-on experience for a well-rounded education.

Degrees Offered

Bachelor of Science (BS)

The Faculty of Applied Sciences offers the degree of Bachelor of Science (BS) in:

- Computer Science 99 credits
- Computer and Communication Sciences 110 credits
- Information Technology 99 credits
- Nutrition and Dietetics 99 credits
- Water Resources and Geo-Environmental Sciences 99 credits

Master of Science (MS)

The Faculty of Applied Sciences offers the degree of Master of Science (MS) in:

- Computer Science 39 credits

Department of Computer Science

In today's rapidly evolving digital landscape, Computer Science stands as a beacon of innovation, driving transformative changes across all sectors of society. At the American University of Technology, we proudly offer a forward-thinking Computer Science program that empowers students to thrive in this dynamic field, with specialized tracks in Artificial Intelligence and Data Science designed to address the complexities and demands of modern technology.

Our curriculum is meticulously structured not only to impart foundational technical knowledge but also to develop critical thinking, creativity, and ethical problem-solving skills. Students have the opportunity to engage deeply with computational theory and software development, with particular emphasis on two distinguished tracks:

- **Artificial Intelligence Track:** Dive into the world of AI, where you will learn to design intelligent systems that can think, learn, and make decisions in ways that mimic human cognition. Courses cover machine learning, neural networks, natural language processing, and computer vision, equipping you with the skills to innovate and lead in AI development.
- **Data Science Track:** Explore the power of data in our Data Science track, where you learn to transform vast amounts of information into actionable insights. This track focuses on data analytics, statistical methods, predictive modeling, and big data technologies, preparing you to drive decision-making processes in business and research.

The Computer Science program employs a learning-centered approach, which places you, the learner, at the core of the educational experience. You will learn from world-class faculty who are not only experts in their fields but also passionate educators committed to your success. Our state-of-the-art facilities, coupled with extensive opportunities for internships, cooperative education, and partnerships with leading tech companies, ensure that you are fully equipped to tackle real-world challenges right from the start of your career.

Whether you aim to develop cutting-edge AI technologies or lead data-driven initiatives, our program offers a personalized and flexible educational path. We place a strong emphasis on developing not only your technical skills but also your communication abilities, teamwork, and leadership qualities—essential for succeeding in a global, technology-driven marketplace.

We invite you to join us at the American University of Technology for a transformative educational experience where you will not only gain the expertise needed to shape the future but also become part of an innovative community of learners and change-makers. The possibilities within the realms of Artificial Intelligence and Data Science are boundless, and we are excited to help you unlock your full potential.

Program Educational Objectives

1. Graduates will demonstrate proficiency in analyzing complex computing problems, designing algorithms, and implementing effective and innovative solutions using computational thinking and problem-solving techniques.
2. Graduates will apply a solid foundation of computer science principles to analyze, design, and develop innovative solutions to real-world challenges in diverse

domains, exhibiting adaptability and creativity in response to new technological paradigms and problem-solving situations.

3. Graduates will work seamlessly and ethically within multidisciplinary teams, communicate complex technical concepts clearly, and contribute positively to collaborative projects in both technical and non-technical settings, making informed decisions that consider societal, cultural, and environmental factors, fostering responsible and sustainable technological solutions.
4. Graduates will exhibit leadership skills by guiding projects, inspiring peers, and driving positive change. They will apply entrepreneurial thinking to identify opportunities, take calculated risks, and transform ideas into viable ventures. They will address local and global challenges, making valuable contributions to the community through outreach, mentorship, and socially impactful projects.
5. Graduates will engage in continuous self-directed learning to stay current with emerging technologies and trends, progressing in their careers to assume roles of increasing responsibility and technical expertise within academia, industry, research, or other relevant fields.

Student Outcomes

Graduates of the Computer Science program will have the ability to

- Analyze complex computing problems and apply principles of computing, mathematics, scientific reasoning, and other relevant disciplines to identify solutions.
- Design, correctly implement, evaluate, integrate, and document secure computing-based solutions to meet a given set of computing requirements in the context of the Computer Science discipline.
- Communicate effectively, both orally and writing, in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the Computer Science discipline.
- Initiate and produce self-directed computing-based solutions using computer science theory and fundamentals, demonstrating the ability to independently explore advanced topics, and stay updated on emerging trends in the field.

Artificial Intelligence Track

The Bachelor of Science (BS) in Computer Science program with a concentration in Artificial Intelligence (AI) at the American University of Technology is a cutting-edge program that offers a dynamic blend of computer science fundamentals and specialized study in the rapidly evolving field of AI. As technology continues to reshape industries and societies, this program is designed to equip students with the knowledge, skills, and innovation mindset required to excel in AI-related careers. With a strong foundation in computer science principles, combined with in-depth exploration of AI theories, algorithms, and applications, our graduates are well-prepared to contribute to the forefront of AI research, develop intelligent systems, and address complex challenges across various sectors.

Program Educational Objectives

1. Graduates will apply foundational principles of computer science and artificial intelligence to analyze, design, and develop intelligent systems and applications, and collaborate effectively within multidisciplinary teams to develop AI-driven solutions that address societal challenges.
2. Graduates will gain a strong foundation in the theoretical underpinnings of AI, utilizing gained practical skills in advanced machine learning techniques to solve complex real-world problems.
3. Graduates will communicate technical concepts clearly and professionally to both technical and non-technical audiences.
4. Graduates will be well prepared for careers in Computing and AI research and development, while exhibiting ethical and responsible behavior, and will be engaged in lifelong learning and professional development to stay current with emerging trends and technologies in Computing and AI.

Data Science Track

The Bachelor of Science (BS) in Computer Science program with a concentration in Data Science (DS) at the American University of Technology is a cutting-edge program that offers a dynamic blend of computer science fundamentals and specialized study in the rapidly evolving field of Data Science. It is an exhilarating convergence of computer science and statistical analysis that empowers students with the knowledge, theory, and tools to extract invaluable insights from the ever-expanding realm of data. Our newly crafted concentration in data science is meticulously designed to equip students with the skills and mindset required to navigate and thrive in this data-driven era. Through a meticulously curated curriculum, hands-on projects, and exposure to state-of-the-art tools and techniques, students delving into this track will embark on a journey that unveils the art of transforming raw data into actionable knowledge. Whether you aspire to revolutionize industries, enhance decision-making processes, or unravel intricate patterns within data, our data science concentration will provide the foundation and guidance needed to unravel the infinite possibilities that data holds.

Program Educational Objectives

1. Graduates will apply foundational computer science concepts, techniques, and data science methodologies to analyze, design, and develop data-driven software solutions, using machine learning, statistical modeling, and visualization techniques to solve data-intensive challenges in various domains including data collection, preprocessing, analysis, and interpretation, and extract meaningful insights from large and diverse datasets.
2. Graduates will work collaboratively in multidisciplinary teams to tackle complex projects, communicate technical ideas, and contribute positively to team dynamics, and will demonstrate ethical and professional behavior in data collection, analysis, and decision-making, considering privacy, security, and potential biases associated with data.
3. Graduates will engage in continuous learning and professional development, seeking opportunities to expand their knowledge, skills, and expertise in computer science and data science, and will adapt to evolving technologies and industry

trends, demonstrating the ability to innovate and integrate new tools and techniques to address emerging challenges in data science.

Bachelor of Science in Computer Science

(99 Credits)

Computer scientists are trained in the theory of computation and the design of computer systems. The computer science discipline is associated to mathematics and includes topics ranging from theoretical (such as studies of the limits of computation) to practical (such as issues of implementing computing systems). The scope of work for computer scientists falls into three categories: designing and implementing software, devising new ways to use computers, and developing effective algorithms to solve computing problems.

General Education Requirements (GER)		26 cr.	Prerequisites
English Language & Communication Requirements (12 cr.)			
ENG200	Writing Skills	3 cr.	ENG020 or ENG022
ENG201	Rhetoric I	3 cr.	ENG200
REM308	Research methodology	3 cr.	ENG201
BUS210	Business Communication Skills	3 cr.	ENG201
General Business & Humanities Requirements (7 cr.)			
BUS201 or ENT301	Foundations in Business Start-up Business Entrepreneurship	3 cr.	ENG201
HUM318	Human Rights	3 cr.	
CSC212 or HUM212	AI and Society AUT Cultural Plus	1 cr.	
Arts & Social Sciences Requirements (3 cr.) *(Choose <u>one</u> of the following courses)*			
ART200	Drawing & Illustration I	3 cr.	
ART205	Contemporary Arts		
ART206	History of Art and Design		
HUM210	Arts Appreciation		
HIS200	History of Modern Lebanon		
POL202	Globalization & Political Changes		ENG200
PSY201	Introduction to Psychology		ENG201
SOC201	Introduction to Sociology		ENG201
COM208	Introduction to Social Media		ENG201
Science & Technology Requirements (3 cr.) *(Choose <u>one</u> from the following courses)*			
HLT210	Health & Wellness	3 cr.	
NTR201	Introduction to Nutrition		
ENV201	Man in the Environment		ENG200
CSC201	Introduction to Information Technology		
Health & Physical Education Requirements (1 cr.)			
PED2**	Physical Education	1 cr.	

Mathematics Requirements		12 cr.	Prerequisites
MAT203	Calculus III	3 cr.	MAT102/012
MAT204	Discrete Math	3 cr.	MAT101/011
MAT205	Linear Algebra	3 cr.	MAT101/011
STA315	Probability and Statistics	3 cr.	MAT203, MAT 205

Computer Science Major Requirements		43 cr.	Prerequisites
CSC202	Computer Organization and Architecture	3 cr.	MAT011,ENG010, ENG011
CSC206 CSC206L	Fundamentals of Programming Fundamentals of Programming Lab	3 cr. 1 cr.	MAT011,ENG010, ENG011 Co. CSC206
CSC208 CSC208L	Object-Oriented Programming Object-Oriented Programming Lab	3 cr. 1 cr.	CSC206,ENG020, ENG022 Co. CSC208
CSC210	Data Structures	3 cr.	CSC208, MAT204, ENG20
CSC314	Database Systems	3 cr.	CSC206,MAT204, ENG200
CSC315 CSC315L	Computer Networking Computer Networking Lab	3 cr. 1 cr.	CSC202, CSC206, ENG200 Co. CSC315
CSC325	Web Programming I	3 cr.	
CSC332	System Analysis and Design	3 cr.	CSC210, CSC314, ENG200
CSC341	Operating Systems	3 cr.	CSC202, CSC206, CSC210
CSC341L	Operating Systems Lab	1 cr.	Co. CSC341
CSC358	Theory of Computation	3 cr.	CSC202, CSC210, MAT204
CSC380	Algorithm Analysis & Design	2 cr.	CSC210, MAT204
CSC420	Information Security	3 cr.	CSC315, CSC341
CSC491or CSC493	Senior Project I or Undergraduate Research I	1 cr.	Senior Standing
CSC492or CSC494	Senior Project II or Undergraduate Research II	2 cr.	CSC491 CSC493
CSC495	Internship	1 cr.	Senior Standing

Computer Science Major Electives Choose six of the following courses or one of the tracks		18 cr.	Prerequisites
CSC313	Computer Graphics	3 cr.	CSC210, MAT205
CSC334	Game Design and Development	3 cr.	CSC208
CSC344	Advanced Database Systems	3 cr.	CSC314
CSC357	Graph Theory	3 cr.	MAT204
CSC365	Programming Languages	3 cr.	CSC210
CSC414	IT Project Management	3 cr.	CSC315
CSC417	Software Engineering	3 cr.	CSC210, CSC314
CSC424	Mobile Applications	3 cr.	CSC325
CSC425	High-Performance Computing	3 cr.	CSC210, CSC341
CSC440	Web Programming II	3 cr.	CSC325
CSC448	Network Security	3 cr.	CSC420
CSC461	Cloud Computing	3 cr.	CSC314, CSC315
CSC464	Blockchain Technologies	3 cr.	CSC210, CSC314, CSC315
MAT315	Numerical Methods	3 cr.	MAT203, CSC206

CSC310	AI track	Introduction to AI	3 cr.	CSC210
CSC451		Machine Learning	3 cr.	CSC210, STA315, MAT205
CSC452		Natural Language Processing	3 cr.	Senior Standing
CSC453		Computer Vision	3 cr.	Senior Standing
CSC454		Big Data Analytics	3 cr.	Senior Standing
CSC461		Cloud Computing	3 cr.	Senior Standing

CSC381	Data Science	Introduction to Data Science	3 cr.	CSC208, STA315
CSC451		Machine Learning	3 cr.	CSC210, STA315, MAT205
CSC454		Big Data Analytics	3 cr.	Senior Standing
CSC483		Data Wrangling & preprocessing	3 cr.	Senior Standing
CSC484		Business Intelligence & Data Visualization	3 cr.	Senior Standing
MAT401		Time Series Analysis	3 cr.	MAT203

Bachelor of Science in Computer Science – Proposed Sequence of Study

(99 Credits)

First Year

Semester	Course Code	Title	Credits
Fall	MAT203	Calculus III	3
	CSC202	Computer Organization and Architecture	3
	CSC206	Fundamentals of Programming	3
	CSC206L	Fundamentals of Programming Lab	1
	ENG200	Writing Skills	3
		Arts & Social Sciences Requirement	3
			16
Spring	MAT204	Discrete Math	3
	MAT205	Linear Algebra	3
	CSC208	Object-Oriented Programming	3
	CSC208L	Object-Oriented Programming Lab	1
	CSC212	AI and Society	1
	CSC314	Database Systems	3
	ENG201	Rhetoric I	3
			17

Second Year

Semester	Course Code	Title	Credits
Fall	STA315	Probability and Statistics	3
	CSC210	Data structures	3
	CSC315	Computer Networking	3
	CSC315L	Computer Networking Lab	1
	CSC325	Web Programming I	3
	BUS210	Business Communication Skills	3
			16
Spring	CSC332	System Analysis and Design	3
	REM308	Research methodology	3
	CSC341	Operating Systems	3
	CSC341L	Operating Systems Lab	1
		Computer Science Major Elective	3
		Science & Technology Requirements	3
	PED2**	Physical Education I	1
			17
Summer		General Business & Humanities Requirements	3
	CSC 495	Internship	1
			4

Third Year

Semester	Course Code	Title	Credits
Fall	CSC358	Theory of Computation	3
	CSC380	Algorithm Analysis & Design	2
		Computer Science Major Elective	3
		Computer Science Major Elective	3
		Arts & Social Sciences Requirements	3
	CSC491 or CSC493	Senior Project I or Undergraduate Research I	1
			15
Spring		Computer Science Major Elective	3
	CSC420	Information Security	3
		Computer Science Major Elective	3
		Computer Science Major Elective	3
	CSC492 or CSC494	Senior Project II or Undergraduate Research II	2
			14

Master of Science in Computer Science

(39 Credits)

The Master of Science (MS) in Computer Science is an advanced graduate program designed to equip students with comprehensive knowledge and cutting-edge skills in the field of computer science. This program offers a blend of theoretical foundations and practical experience, covering a wide range of topics including algorithms, software engineering, data science, artificial intelligence, cybersecurity, and more. Through a combination of rigorous coursework, research opportunities, and hands-on projects, students will develop the expertise needed to solve complex computational problems and innovate in various domains. Whether students choose to specialize in a particular area or pursue a broad-based curriculum, the program emphasizes critical thinking, problem-solving, and the application of advanced technologies. Graduates will be well-prepared for leadership roles in academia, industry, and government, ready to drive technological advancements, and address the challenges of a rapidly evolving digital world.

The Master of Science in Computer Science program aims to produce graduates who will:

- Attain a deep and comprehensive understanding of advanced computer science concepts, theories, and techniques, enabling them to solve complex technical problems and contribute to the advancement of the field.
- Develop innovative solutions to real-world challenges through rigorous analysis, critical thinking, and the application of cutting-edge technologies in areas such as algorithms, software engineering, data science, artificial intelligence, cybersecurity, and more.
- Engage in high-quality research that contributes to the body of knowledge in computer science, demonstrating the ability to conduct independent, original research and to publish findings in reputable academic and industry forums.
- Pursue continuous professional development and lifelong learning to stay current with emerging technologies and industry trends, ensuring their skills and knowledge remain relevant in a rapidly changing field.
- Exhibit strong leadership, project management, and teamwork skills, effectively communicating and collaborating with diverse teams to drive successful outcomes in multidisciplinary environments.
- Uphold high ethical standards and demonstrate an awareness of the societal and global impact of computing technologies, making responsible decisions that reflect a commitment to ethical practices and social responsibility.
- Communicate complex technical information clearly and effectively to various audiences, including technical peers, non-technical stakeholders, and the broader community, through both written and oral means.

Artificial Intelligence Track

This track is designed for CS graduates seeking to deepen their expertise in the rapidly evolving field of AI. The program provides a rigorous and comprehensive curriculum that encompasses advanced theoretical foundations, cutting-edge research, and practical applications of AI technologies. Students will engage with topics such as machine learning, deep learning, natural language processing, reinforcement learning, and AI ethics. Through a combination of core courses, specialized electives, and a capstone project or thesis, graduates will be equipped with the skills and knowledge necessary to lead and innovate in academic, industrial, and governmental roles. Our program emphasizes hands-on experience, ethical considerations, and the application of AI in solving real-world problems, preparing students to make significant contributions to the field and society.

First Year

Semester		Course Code	Title	Credits
	Fall	CSC501	Machine Learning and Applications	3
		CSC502	AI and Data Ethics, Policy, and Privacy	3
		CSC503	Computer Vision	3
				9
	Spring	CSC504	Deep Learning	3
		CSC505	Natural Language Processing	3
		CSC506	Biometrics	3
				9

Second Year

Semester		Course Code	Title	Credits
	Fall	CSC512	Reinforcement Learning	3
		CSC5**	Graduate-Level Elective I	3
		CSC596 & CSC5** or CSC599	Graduate Project & Graduate-Level Elective or Thesis	6
				12
	Spring	CSC534	Advanced Topics in AI and Data Science	3
		CSC5**	Graduate-Level Elective II	3
		CSC5**	Graduate-Level Elective III	3
				9

Data Science Track

This track enables CS graduates to master the skills necessary to analyze and derive actionable insights from complex data sets. This program offers a comprehensive curriculum that blends theoretical foundations, advanced computational techniques, and practical applications in data science. Students will delve into topics such as machine learning, big data analytics, statistical modeling, data visualization, and data ethics. Through a combination of core courses, specialized electives, and a capstone project or thesis, graduates will be well-prepared to tackle data-driven challenges in various industries, including technology, healthcare, finance, and government. Our program emphasizes hands-on experience with the latest tools and technologies, fostering the ability to transform data into strategic assets. By the end of the program, students will possess the expertise to lead data science initiatives and drive innovation in their respective fields.

First Year

Semester		Course Code	Title	Credits
	Fall	CSC501	Machine Learning and Applications	3
		CSC502	AI and Data Ethics, Policy, and Privacy	3
		CSC535	Data Visualization	3
				9
	Spring	CSC536	Time Series and Forecasting	3
		CSC537	Advanced Inference Statistics	3
		CSC526	Data Mining	3
				9

Second Year

Semester		Course Code	Title	Credits
	Fall	CSC538	Game Theory	3
		CSC5**	Graduate-Level Elective I	3
		CSC596 & CSC5** or CSC599	Graduate Project & Graduate-Level Elective or Thesis	6
				12
	Spring	CSC534	Advanced Topics in AI and Data Science	3
		CSC5**	Graduate-Level Elective II	3
		CSC5**	Graduate-Level Elective III	3
				9

Networking Track

This track is designed to equip students with advanced knowledge and practical skills in the design, implementation, and management of complex network infrastructures. This specialized track covers a broad range of topics, including network architecture, advanced networking protocols, network security, and performance optimization. Students will engage in hands-on learning experiences and cutting-edge research to address contemporary networking challenges. Through this track, graduates will be prepared to take on critical roles in ensuring the efficiency, reliability, and security of network systems across various industries, positioning themselves as leaders in the field of networking technology.

First Year

Semester		Course Code	Title	Credits
	Fall	CSC541	Advanced Network Design and Architecture	3
		CSC542	Advanced Network Security and applications	3
		CSC543	Cloud Computing and Virtualization	3
				9
	Spring	CSC544	Advanced System and Network Administration	3
		CSC545	IoT Networking and Security	3
		CSC546	Advanced Blockchain Technologies and applications	3
				9

Second Year

Semester		Course Code	Title	Credits
	Fall	CSC551	Wireless Networks	3
		CSC5**	Graduate-Level Elective I	3
		CSC596 & CSC5** or CSC599	Graduate Project & Graduate-Level Elective or Thesis	6
				12
	Spring	CSC554	Advanced Topics in Information Technology	3
		CSC5**	Graduate-Level Elective II	3
		CSC5**	Graduate-Level Elective III	3
				9

Cybersecurity Track

This track prepares students for the critical task of protecting information systems and networks from ever-evolving cyber threats. This specialized track delves into advanced topics such as cryptography, ethical hacking, digital forensics, and incident response. Students will gain hands-on experience and deep theoretical knowledge, enabling them to identify, analyze, and mitigate cybersecurity risks effectively. Through rigorous coursework and research, graduates will emerge as highly skilled professionals equipped to safeguard sensitive data and ensure the integrity and resilience of IT infrastructures across diverse industries. This track is ideal for those aiming to lead in the field of cybersecurity, driving innovation and strategic security initiatives.

First Year

Semester		Course Code	Title	Credits
	Fall	CSC561	Threat Analysis and Incident Response	3
		CSC542	Advanced Network Security and applications	3
		CSC563	Risk Management and Compliance	3
				9
	Spring	CSC544	Advanced System and Network Administration	3
		CSC545	IOT Networking and Security	3
		CSC546	Advanced Blockchain Technologies and applications	3
				9

Second Year

Semester		Course Code	Title	Credits
	Fall	CSC571	Cybersecurity Management and Leadership	3
		CSC5**	Graduate-Level Elective I	3
		CSC596 & CSC5** or CSC599	Graduate Project & Graduate-Level Elective or Thesis	6
				12
	Spring	CSC554	Advanced Topics in Information Technology	3
		CSC5**	Graduate-Level Elective II	3
		CSC5**	Graduate-Level Elective III	3
				9

Department of Information Technology

In the rapidly evolving world of technology, having the skills to navigate the complexities of information systems and secure digital assets is more important than ever. Our Information Technology program, with specialized tracks in Networking and Cybersecurity, is designed to equip students with technical acumen, hands-on experience, and critical thinking skills needed to excel in these crucial sectors.

- **Networking Track**: Dive into the intricate world of computer networks with our Networking track. This pathway offers students a deep dive into network design, implementation, and management. Courses cover a range of topics from fundamental networking concepts and protocols to advanced networking technologies and services. Students will gain practical skills in configuring and troubleshooting networks using state-of-the-art equipment and simulation tools, preparing them for successful careers in network administration, systems engineering, and beyond.
- **Cybersecurity Track**: Our Cybersecurity track addresses the growing challenges and complexities of digital security. Students in this track will explore the methodologies and tools used to protect data and maintain privacy. The curriculum includes topics such as ethical hacking, digital forensics, compliance, and cybersecurity governance. Through hands-on labs and real-world scenarios, students will learn to devise and implement security strategies that combat the most pressing cyber threats, preparing them for roles such as cybersecurity analyst, information security manager, or chief security officer.

The Information Technology program employs a learning-centered approach, which places you, the learner, at the core of the educational experience. You will learn from world-class faculty who are not only experts in their fields but also passionate educators committed to your success. Our state-of-the-art facilities, coupled with extensive opportunities for internships, cooperative education, and partnerships with leading tech companies, ensure that you are fully equipped to tackle real-world challenges right from the start of your career. Our dedicated faculty are industry veterans who bring a wealth of knowledge and experience to the classroom. Coupled with our state-of-the-art labs and collaborative projects, students will emerge from the Information Technology program ready to lead and innovate in a global tech landscape.

Join us at AUT to transform your passion for technology into a rewarding career, safeguarding digital interactions and infrastructure in our digital age.

Program Educational Objectives

1. Graduates will demonstrate proficiency in analyzing complex information technology problems, designing effective solutions, and implementing innovative strategies using analytical skills and problem-solving techniques.
2. Graduates will apply a solid foundation of information technology principles to analyze, design, and develop innovative solutions to real-world challenges in diverse domains, showcasing adaptability and creativity in response to evolving technological landscapes.
3. Graduates will seamlessly collaborate within multidisciplinary teams, communicating technical concepts clearly, and contributing positively to collaborative projects in both technical and non-technical settings. They will make

informed decisions considering societal, cultural, and ethical factors, fostering responsible and sustainable technological solutions.

4. Graduates will exhibit leadership skills by guiding information technology projects, inspiring peers, and driving positive change. They will apply entrepreneurial thinking to identify opportunities, take calculated risks, and transform ideas into viable ventures, addressing local and global challenges through outreach, mentorship, and socially impactful projects.
5. Graduates will engage in continuous self-directed learning to stay abreast of emerging technologies and industry trends, progressing in their careers to assume roles of increasing responsibility and technical expertise within academia, industry, research, or other relevant fields in the realm of information technology.

Student Outcomes

Graduates of the Information Technology program will have the ability to

- Analyze complex computing problem and apply principles of computing, mathematics, scientific reasoning, and other relevant disciplines to identify solutions.
- Design, correctly implement, evaluate, integrate, and document secure computing-based solutions to meet a given set of computing requirements in the context of the Information Technology discipline.
- Communicate effectively, both orally and writing, in a variety of professional contexts.
- Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
- Function effectively as a member or leader of a team engaged in activities appropriate to the Information Technology discipline.
- Initiate and produce self-directed computing-based solutions using Information Technology theory and fundamentals, demonstrating the ability to independently explore advanced topics, and stay updated on emerging trends in the field.

Networking Track

The Bachelor of Science (BS) in Information Technology program with a concentration in networking is designed for students who are passionate about building and maintaining robust, efficient, and secure network infrastructures. This track provides in-depth knowledge and practical skills necessary for designing, implementing, and managing complex network systems. Key courses include Advanced Computer Networks, where students explore the architecture and protocols of modern networks; Database Administration, focusing on the management and optimization of database systems; and System & Network Administration, which covers the operational aspects of maintaining network environments. Students will also delve into Network Management and Security, ensuring the protection and smooth operation of network systems, and IT Governance and Risk Management, where they learn to align IT strategies with business goals while mitigating risks. Additionally, the E-commerce and IT Strategy course prepares students to support the digital transformation and strategic initiatives of businesses. Graduates of this track are well-equipped to pursue careers as network administrators, network engineers, and IT managers, contributing to the backbone of modern digital enterprises.

Program Educational Objectives

The Networking track within the Information Technology major aims to equip graduates with the knowledge and skills necessary to excel in the field of network design, implementation, and management. Graduates of this track will:

1. Demonstrate expertise in designing, implementing, and managing complex network systems, ensuring their efficiency, reliability, and security.
2. Utilize critical thinking and problem-solving skills to address and resolve network-related issues, adapting to new challenges and technological advancements.
3. Engage in continuous professional development and lifelong learning to stay current with emerging networking technologies and industry best practices.
4. Exhibit strong leadership and teamwork abilities, effectively communicating and collaborating with colleagues, stakeholders, and clients to achieve organizational goals.
5. Uphold ethical standards and best practices in network management and security, contributing to the safe and responsible use of technology in the workplace.

Cybersecurity Track

The Bachelor of Science (BS) in Information Technology program with a concentration in Cybersecurity at the American University of Technology offers a comprehensive education for students aiming to specialize in the protection of information systems against cyber threats. This track emphasizes the critical aspects of safeguarding digital assets through a combination of theoretical knowledge and hands-on experience. Core courses include Introduction to Cybersecurity, providing a solid foundation in the principles and practices of cybersecurity; Database Administration, focusing on secure data management; and Cloud Computing, which addresses the security challenges of cloud environments. Students will also study Cryptography, learning the techniques for securing communications and data, and Ethical Hacking and Penetration Testing, where they gain practical skills in identifying and mitigating vulnerabilities. Digital Forensics is another key course, teaching students the methodologies for investigating and responding to cyber incidents. Graduates of this track are prepared to take on roles such as cybersecurity analysts, penetration testers, and digital forensics experts, playing a crucial role in defending organizations against ever-evolving cyber threats.

Program Educational Objectives

The Cybersecurity track within the Information Technology major is designed to prepare graduates for careers focused on protecting information systems and data from cyber threats. Graduates of this track will:

1. Acquire in-depth knowledge and practical skills in cybersecurity, including cryptography, ethical hacking, penetration testing, and digital forensics, to effectively protect and defend information systems.
2. Develop strong analytical and problem-solving abilities to identify, assess, and mitigate cybersecurity risks and vulnerabilities in various technological environments.

3. Pursue continuous learning and professional growth to keep pace with the rapidly evolving cybersecurity landscape and emerging threats.
4. Demonstrate effective communication and teamwork skills, working collaboratively with peers, stakeholders, and clients to implement and manage comprehensive cybersecurity strategies.
5. Adhere to ethical principles and legal regulations in the practice of cybersecurity, ensuring the responsible and lawful protection of information and privacy.

Bachelor of Science in Information Technology

(99 Credits)

Information Technologists are trained to meet the hands-on, practical and everyday computer technology requirements of the various types of organizations, including business, government, healthcare, schools and others. Entities within the organizations rely on their IT department to select hardware and software products that will facilitate operations efficiently and securely, followed by the integration of the systems within its infrastructure.

General Education Requirements (GER)		**26 cr.**	**Prerequisites**
English Language & Communication Requirements (12 cr.)			
ENG200	Writing Skills	3 cr.	ENG020 or ENG022
ENG201	Rhetoric I	3 cr.	ENG200
REM308	Research methodology	3 cr.	ENG201
BUS210	Business Communication Skills	3 cr.	ENG201
General Business & Humanities Requirements (7 cr.)			
BUS201 OrENT301	Foundations in Business Start-up Business Entrepreneurship	3 cr.	ENG201
HUM318	Human Rights	3 cr.	
CSC212 orHUM212	AI and Society AUT Cultural Plus	1 cr.	
Arts & Social Sciences Requirements (3 cr.) *(Choose <u>one</u> of the following courses)*			
ART200	Drawing & Illustration I	3 cr.	
ART205	Contemporary Arts		
ART206	History of Art and Design		
HUM210	Arts Appreciation		
HIS200	History of Modern Lebanon		
POL202	Globalization & Political Changes		ENG200
PSY201	Introduction to Psychology		ENG201
SOC201	Introduction to Sociology		ENG201
COM208	Introduction to Social Media		ENG201
Science & Technology Requirements (3 cr.) *(Choose <u>one</u> from the following courses)*			
HLT210	Health & Wellness	3 cr.	
NTR201	Introduction to Nutrition		
ENV201	Man in the Environment		ENG200
CSC201	Introduction to Information Technology		
Health & Physical Education Requirements (1 cr.)			
PED2**	Physical Education	1 cr.	

Mathematics Requirements		**12 cr.**	**Prerequisites**
MAT203	Calculus III	3 cr.	MAT102/012
MAT204	Discrete Math	3 cr.	MAT101/011
MAT205	Linear Algebra	3 cr.	MAT101/011
STA315	Probability and Statistics	3 cr.	MAT203, MAT205

Information Technology Major Requirements		**43cr.**	**Prerequisites**
CSC202	Computer Organization and Architecture	3 cr.	MAT011, ENG010, ENG011
CSC206	Fundamentals of Programming	3 cr.	MAT011, ENG010, ENG011
CSC206L	Fundamentals of Programming Lab	1 cr.	Co. CSC206

CSC208 CSC208L	Object-Oriented Programming Object-Oriented Programming Lab	3 cr. 1 cr.	CSC206, ENG020, ENG022 Co. CSC208
CSC210	Data Structures	3 cr.	CSC208, MAT204, ENG200
CSC314	Database Systems	3 cr.	CSC206, MAT204, ENG200
CSC315 CSC315L	Computer Networking Computer Networking Lab	3 cr. 1 cr.	CSC202, CSC206, ENG200 Co. CSC315
CSC325	Web Programming I	3 cr.	
CSC332	System Analysis and Design	3 cr.	CSC210, CSC314, ENG200
CSC341	Operating Systems	3 cr.	CSC202, CSC206, CSC210
CSC341L	Operating Systems Lab	1 cr.	Co. CSC341
CSC420	Information Security	3 cr.	CSC315, CSC341
CSC435	Database Administration	3 cr.	CSC314
CSC442	Enterprise Systems & Network Administration	2 cr.	CSC315, CSC341
CSC491 or CSC493	Senior Project I or Undergraduate Research I	1 cr.	Senior Standing
CSC492 or CSC494	Senior Project II or Undergraduate Research II	2 cr.	CSC491 CSC493
CSC495	Internship	1 cr.	Senior Standing

Information Technology Major Electives Choose **six** of the following courses or **one** of the tracks		**18 cr.**	**Prerequisites**
CSC313	Computer Graphics	3 cr.	CSC210, MAT205
CSC344	Advanced Database Systems	3 cr.	CSC314
CSC357	Graph Theory	3 cr.	MAT204
CSC358	Theory of Computation	3 cr.	CSC202, CSC210
CSC365	Programming Languages	3 cr.	CSC210
CSC414	IT Project Management	3 cr.	CSC315
CSC417	Software Engineering	3 cr.	CSC210, CSC314
CSC424	Mobile Applications	3 cr.	CSC325
CSC425	High-Performance Computing	3 cr.	CSC210, CSC341
CSC440	Web Programming II	3 cr.	CSC325
CSC448	Network Security	3 cr.	CSC420
CSC461	Cloud Computing	3 cr.	CSC314, CSC315
CSC464	Blockchain Technologies	3 cr.	CSC210, CSC314, CSC315
MAT315	Numerical Methods	3 cr.	MAT203, CSC206

CSC428	Networking track	Advanced Computer Networks	3 cr.	CSC315
CSC443		Wireless and Mobile Networks	3 cr.	CSC315
CSC461		Cloud Computing	3 cr.	CSC314, CSC315
CSC446		Network Management and Security	3 cr.	CSC315
CSC444		IT Governance and Risk Management	3 cr.	CSC315
CSC445		E-commerce and IT Strategy	3 cr.	CSC315, CSC332

CSC446	Cybersecurity track	Network Management and Security	3 cr.	CSC315
CSC461		Cloud Computing	3 cr.	CSC314, CSC315
CSC467		Cryptography	3 cr.	CSC420
CSC464		Blockchain Technologies	3 cr.	CSC210, CSC314, CSC315
CSC471		Ethical Hacking & Penetration Testing	3 cr.	CSC420
CSC473		Digital Forensics	3 cr.	CSC420

Bachelor of Science in Information Technology – Proposed Sequence of Study

(99 Credits)

First Year

Semester	Course Code	Title	Credits
Fall	MAT203	Calculus III	3
	CSC202	Computer Organization and Architecture	3
	CSC206	Fundamentals of Programming	3
	CSC206L	Fundamentals of Programming Lab	1
	ENG200	Writing Skills	3
		Arts & Social Sciences Requirement	3
			16
Spring	MAT204	Discrete Math	3
	MAT205	Linear Algebra	3
	CSC208	Object-Oriented Programming	3
	CSC208L	Object-Oriented Programming Lab	1
	CSC314	Database Systems	3
	CSC212	AI and Society	1
	ENG201	Rhetoric I	3
			17

Second Year

Semester	Course Code	Title	Credits
Fall	STA315	Probability and Statistics	3
	CSC210	Data structures	3
	CSC315	Computer Networking	3
	CSC315L	Computer Networking Lab	1
	CSC325	Web Programming I	3
	BUS210	Business Communication Skills	3
			16
Spring	CSC332	System Analysis and Design	3
	REM308	Research methodology	3
	CSC341	Operating Systems	3
	CSC341L	Operating Systems Lab	1
		Information Technology Major Elective	3
		Science & Technology Requirements	3
	PED2**	Physical Education I	1
			17
Summer		General Business & Humanities Requirements	3
	CSC495	Internship	1
			4

Third Year

Semester	Course Code	Title	Credits
Fall	CSC344	Advanced Database Systems	3
	CSC442	Enterprise Systems & Network Administration	2
		Information Technology Major Elective	3
		Information Technology Major Elective	3
		Arts & Social Sciences Requirements	3
	CSC491 or CSC493	Senior Project I or Undergraduate Research I	1
			15
Spring		Information Technology Major Elective	3
	CSC420	Information Security	3
		Information Technology Major Elective	3
		Information Technology Major Elective	3
	CSC492 or CSC494	Senior Project II or Undergraduate Research II	2
			14

Bachelor of Science in Nutrition and Dietetics

(99 Credits)

The Nutrition and Dietetics program is designed to disseminate, promote and help apply knowledge in the fields of human nutrition and dietetics. It prepares students to think critically in the theoretical and practical aspects of this growing field with the objective of improving the quality of health of individuals and families as well as improving the services provided by the dietetics. It equips the students with the necessary skills to compete in the work environment.

Graduation Requirements

Other than the requirements for graduation specified in the introductory part of the Catalog, a student should complete the University course requirements and the major course requirements, which amount to a total of 99 credits.

Bachelor of Science in Nutrition and Dietetics (99 Credits)

General Education Requirements			**26 credits**	**Prerequisites**
Faculty Health Course Requirements			**21 credits**	Grade must be C or higher in every Major Course
Code	**Course**	**Title**	**Cr**	**Prerequisites**
BIO	201	General Biology	4	ENG200
BIO	210	Human Physiology	3	BIO201
BIO	261	Introductory Biochemistry	3	CHE211
CHE	201	Basic Chemistry	4	ENG200
CHE	211	Introductory Organic Chemistry	4	CHE201
STA	210	Statistics For Science	3	
Specialization Core Requirements			**43 credits**	Grade must be C or higher in every Major Course
Code	**Course**	**Title**	**Cr**	**Prerequisites**
NTR	211	Food and Nutrition	3	BIO201
NTR	231	Food Chemistry	3	NTR211, CHE201
NTR	313	Nutrition Assessment & Lab	4	NTR211
NTR	318	Physiopathology	3	BIO210
NTR	322	Food Processing	3	BIO201, CHE201
NTR	331	Food Microbiology & Safety & Lab	4	NTR211
NTR	340	Foundations in Food Service Systems	3	Co. NTR211
NTR	345	Human Nutrition	3	NTR211
NTR	408	Food and Drug Interaction	1	Co. NTR410
NTR	410	Pharmacology	3	NTR211, BIO261
NTR	411	Dietetics I & Lab	4	NTR441
NTR	422	Food Analysis	2	NTR231
NTR	441	Principles of Clinical Nutrition & Lab	4	NTR345
NTR	452	Nutrition in Life Cycle	3	NTR313
Free Elective			**9 credits**	

Bachelor of Science in Nutrition and Dietetics – Proposed Sequence of Study

(99 Credits)

First Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	ENG200	Writing Skills	3	
	HLT210	Health and Wellness (GER)	3	
	BIO201	General Biology + Lab	4	ENG200
	CHE201	Basic Chemistry + Lab	4	ENG200
	NTR211	Food and Nutrition	3	BIO201
		Total	**17**	
Spring	BIO210	Human Physiology	3	BIO201
	CHE211	Introductory Organic Chemistry + Lab	4	CHE201
	ENG201	Rhetoric I	3	ENG200
	NTR231	Food chemistry	3	NTR211, CHE201
		Major Elective	3	
		Total	**16**	

Second Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	NTR318	Physiopathology	3	BIO210
	NTR322	Food Processing	3	BIO201, CHE201
	NTR345	Human Nutrition	3	NTR211
	STA210	Statistics For Science	3	
	HOM260	Food Safety (Major Elective)	3	ENG280 or ENG201
	PED201	Physical Education (GER)	1	
		Total	**16**	
Spring	BIO261	Introductory Biochemistry	3	CHE211
	NTR313	Nutrition Assessment + Lab	4	NTR211
	NTR331	Food Microbiology & Safety + Lab	4	NTR211
	HUM318	Human Rights (GER)	3	ENG200
		Major Elective	3	
		Total	**17**	
Summer	POL202	Globalization and Political Change (GER)	3	ENG200
		Total	**3**	

Third Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	NTR340	Foundations in Food Service Systems	3	Co. NTR211
	NTR408	Food and Drug Interaction	1	Co. NTR410
	NTR410	Pharmacology	3	NTR211, BIO261
	NTR411	Dietetics I + Lab	4	NTR 441
	BUS210	Business Communication Skills (GER)	3	ENG200
	BUS215	Business Presentation Skills (GER)	1	Co. BUS210
		Total	**15**	
Spring	BUS201	Foundation of Business (GER)	3	
	REM308	Research Methodology	3	ENG201
	NTR441	Principles of Clinical Nutrition + Lab	4	NTR345
	NTR452	Nutrition in Life Cycle	3	NTR313
	NTR422	Food Analysis	2	NTR231
		Total	**15**	

Followed by a **six-month internship** at a hospital during the Summer-Fall period (9 Credits).

Bachelor of Science in Water Resources and Geo-Environmental Sciences

(99 Credits)

The Water Resources and Geo-environmental program provides scientific orientation to the studying and monitoring of various aspects constituting the respective domains. It covers a broad array of the theoretical and practical applications that are basic for fieldwork and job competence.

Graduation Requirements:

Other than the requirements for graduation specified in the introductory part of the Catalog, a student must complete the University course requirements and the major course requirements, which amount to a total of 99 credits.

General Education Requirements			**26 credits**	**Prerequisites**
Faculty Environment Course Requirements			**21 credits**	Grade must be C or higher in everyMajor Course
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
BIO	201	General Biology + Lab	4	
CHE	201	Basic Chemistry + Lab	4	Co. ENG200
CHE	211	Introductory Organic Chemistry + Lab	4	CHE201
STA	210	Statistics for Science	3	
ENV	332	Environmental Impact Assessment	3	
GEO	201	Geology	3	
Specialization Core Requirements			**43 credits**	
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
WGS	201	Introduction to Water Resources	3	
WGS	210	Soil Science	3	
GEO	220	GIS and Remote Sensing	3	WGS220, GEO201
WGS	220	Applied Hydrology	3	
WGS	225	Environmental Microbiology	3	
WGS	250	General Oceanology	3	
WGS	255	Basics of Hydrogeology	3	
GEO	302	Applied Geomorphology	3	GEO201
ENV	380	Sustainable Development	3	
WGS	322	Water Chemistry Techniques	3	CHE201
WGS	323	Water Chemistry Lab	1	CHE201
WGS	345	Water Policy and Economics	3	ENG201, WGS201
WGS	375	Special Topics	3	
WGS	365	Water and Wastewater Engineering	3	WGS322, WGS321
WGS	300	Water Resources Seminar	1	
WGS	390	Internship l	1	
Free Elective			**9 credits**	

Bachelor of Science in Water Resources and Geo-Environmental Sciences – Proposed Sequence of Study

(99 Credits)

First Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	ENG200	Writing Skills	3	
	HLT210	Health and Wellness (GER)	3	
	BIO201	General Biology + Lab	4	ENG200
	CHE201	Basic Chemistry + Lab	4	ENG200
	STA210	Statistics for Science	3	
		Total	**17**	
Spring	BUS201	Foundations of Business (GER)	3	
	ENG201	Rhetoric I	3	ENG200
	WGS201	Introduction to Water Resources	3	
	GEO201	Geology	3	
	CHE211	Introductory Organic Chemistry + Lab.	4	CHE201
	PED201	Physical Education (GER)	1	
		Total	**17**	

Second Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	WGS210	Soil Sciences	4	
	BUS210	Business Communication Skills (GER)	3	ENG200
	HUM212	AUT Cultural Plus (GER)	1	Co. BUS210
	GEO302	Applied Geomorphology	3	GEO201
	WGS220	Applied Hydrology	3	
	WGS240	Aquatic Ecology	3	
		Total	**16**	
Spring	GEO220	GIS and Remote Sensing	3	WGS220, GEO201
	WGS225	Environmental Microbiology	3	
	WGS255	Basic of Hydrology	3	WGS220
	ENV332	Environmental Impact Assessment	3	
	WGS200	Water Resources Seminar	1	
		Major Electives	3	
		Total	**16**	

Third Year

Semester	Course Code	Title	Credits	Prerequisites
Fall	POL202	Globalization and Political Change (GER)	3	ENG200
	WGS322	Water Chemistry Techniques + Lab	5	CHE201
	WGS345	Water Policy and Economics	3	ENG201, WGS201
	WGS365	Water and Wastewater Engineering	3	WGS322, WGS321
		Major Electives	3	
		Total	**17**	
Spring	WGS390	Internship I	1	
	REM308	Research Methodology	3	ENG201
	HUM318	Human Rights (GER)	3	ENG200
	WGS380	Sustainable Development	3	
	WGS375	Special Topics	3	
		Major Electives	3	
		Total	**16**	

Course Descriptions

BIO101 Introduction to Biology (3 credits) To study a simplified presentation of basic chemical and biological concepts with the emphasis on human body structures and functions and the common systematic disorders, diseases, and malfunctions associated with the different systems and their organs.

BIO201 General Biology (3 credits) This course is tailored for health care professions with a stress on cell structure and functions, basic life processes, classification of living organisms and their life cycles and the interaction among them.

Prerequisite: ENG200

BIO201L General Biology Lab. (1 credit) The Laboratory sessions provide a complementary review to the course material in microscopic slides, mounts and simple experiments. The lab material focuses on understanding the structure of the cell and the various tissues contributing to systems.

Prerequisite: BIO201

BIO210 Human Physiology I (3 credits) This course covers the basic anatomical features of the human body and of the different organs in addition to the physiological and functional processes of those organs.

Prerequisite: BIO201

BIO261 Introductory Biochemistry (3 credits) A study of biomolecules, bioenergetics, biosynthesis and genetic information.

Prerequisite: CHE211

CHE101 Principles of Chemistry I (3 credits) This course is a survey course in chemistry. It involves the study of the fundamentals of chemistry with an emphasis on bonding, intermolecular forces, and properties of the elements, physical states of matter, the periodic table, chemical kinetics, and the chemistry of materials.

CHE201 Basic Chemistry (3 credits) This course deals with atomic theory and the determination of atomic weights and molecular formulas in addition to the concept of moles and normality, also, the students will be introduced to the acid-base and oxidation-reduction reactions, properties of gases and liquids, the types of solutions, chemical equilibrium and solubility. It covers also quantum theory of the atom, chemical bonds and hybridization.

Prerequisite: ENG200

CHE201L Basic Chemistry Lab (1 credit) This course covers the basic techniques used to assess qualitatively some of the most important chemical substances.

Prerequisite: CHE201

CHE211 Introductory Organic Chemistry (3 credits) This course outlines the basic principles and concepts of organic chemistry including structure, shape, IUPAC nomenclature, stereoisomerisms, properties, basic reactions and synthesis of the different organic groups.

Prerequisite: CHE201

CHE212L Introductory Organic Chemistry Lab. (1 credit) It includes experiments dealing with the basic techniques in organic Chemistry as to the synthesis, extraction, chromatography and identification of different groups of organic compounds.

Prerequisite: CHE201 conc.

CSC201 Introduction to Information Technology (3 credits) This is a course that explores different computer hardware, software, applications, and cases that demonstrate their impact on different services and industrial firms. This course will cover the most commonly used Microsoft applications such as windows operating systems, Microsoft office suite including: Microsoft Word, Excel, etc.

Corequisite: ENG020

CSC202 Computer Organization and Architecture (3 credits) This course provides students with a deep understanding of the fundamental principles governing the internal structure and operation of digital computers. It explores the intricate relationship between hardware and software, delving into how computer components are organized and how they collaborate to execute programs efficiently. Topics include: Number systems, data representation, processor organization and instruction set architecture, memory hierarchy, input/output systems, and assembly language programming.

Prerequisites: MAT011, ENG010, ENG011

CSC206 Fundamentals of Programming I (3 credits) This is a foundational course that provides students with the fundamental knowledge and skills required to begin programming and develop software applications. The course introduces key concepts and principles of programming, focusing on problem-solving, algorithmic thinking, and good programming practices. Students will learn the basics of data types, control structures, functions, and basic algorithms. They will develop the skills necessary to design, write, and debug programs to solve simple computational problems.

Prerequisites: MAT011, ENG010, ENG011

CSC 206L Fundamentals of Programming I Lab (1cr.) This lab is a practical companion course to CSC 206. In this lab, students will apply the concepts learned in the lectures through hands-on programming exercises. The lab provides a supportive environment for students to gain practical experience in coding, debugging, and problem-solving.

Corequisite: CSC206

CSC208 Object-Oriented Programming (3 credits) This is an intermediate-level course that aims to develop students' understanding and proficiency in designing and implementing software solutions using object-oriented programming (OOP) methodologies, principles, and techniques. Students will learn how to structure programs around classes and objects, inheritance and polymorphism, and exception handling, enabling them to create modular, reusable, and maintainable code.

Prerequisites: CSC206, ENG020, ENG022

CSC208L Object-Oriented Programming Lab. (1 credit) This lab is a practical companion course to CSC 208. In this lab, students will apply the concepts learned in the lecture through hands-on coding exercises and projects. The lab provides a supportive environment for students to gain practical experience in designing, implementing, and testing object-oriented software systems.

Corequisite: CSC208

CSC210 Data Structures (3 credits) This course provides students with a comprehensive understanding of fundamental data structures and their associated algorithms. Topics include: One-dimensional and multi-dimensional arrays, linked lists, stacks and queues, trees and binary trees, heaps and priority queues, hashing, and graphs.

Prerequisites: CSC208, MAT204, ENG200

CSC212 AI and Society (1 credit) This course provides an introductory overview of the growing influence of artificial intelligence in various aspects of modern life. Students will investigate the social, ethical, and cultural dimensions of AI, including topics such as algorithmic bias, privacy concerns, the future of work, and the role of AI in shaping public discourse. Through discussions, case studies, and critical analysis, students will develop a nuanced understanding of the opportunities and challenges presented by AI technologies.

CSC310 Introduction to Artificial Intelligence (3 credits) This course provides an overview of the fundamental concepts, techniques, and applications of AI. Students will gain a solid foundation in understanding the core principles of AI and its various subfields. The course aims to develop students' knowledge and skills necessary to solve real-world problems using AI techniques. Topics include: Knowledge representation and reasoning, decision making, machine learning algorithms, natural language processing, neural networks and deep learning, real-world applications and case studies, and ethical and social implications of AI. The course will include lectures, practical programming assignments, hands-on programming exercises using AI libraries and frameworks (e.g., TensorFlow, PyTorch), and group discussions.

Prerequisite: CSC210

CSC313 Computer Graphics (3 credits) This course offers an in-depth exploration of the principles, techniques, and technologies underlying the creation, manipulation, and rendering of images and visual content using computer algorithms. Topics include: Graphics hardware and APIs, basic drawing algorithms, 2-D and 3-D transformations and projection, curves and surfaces, windowing and clipping, curves and surfaces, hidden-surface and hidden-line removal, texture mapping, color theory and shading models, illumination models, image synthesis and computer animation.

Prerequisites: CSC210, MAT205

CSC314 Introduction to Database Systems (3 credits) This course provides a comprehensive introduction to the principles, concepts, and practical aspects of database management systems (DBMS). The course aims to develop students' understanding of data modeling, entity relationship modeling, relational database design, SQL (Structured Query Language) programming, database security and integrity, and database

administration. Students will learn how to design, implement, and query databases, enabling them to effectively manage and manipulate data in various applications.

Prerequisites: CSC206, MAT204, ENG200

CSC315 Computer Networking (3 credits) This course provides students with a comprehensive understanding of the principles of computer networks, protocols, and technologies that underpin modern networking. Topics include application layer protocols (http, smtp, DNS), transport layer protocols (UDP, TCP), network layer protocols (IPv4, IPv6, SDN), routing algorithms, link layer and LAN, wireless and mobile networks (WiFi 802.11), security, and multimedia.

Prerequisites: CSC202, CSC206, ENG200

CSC315L Computer Networking Lab (1 credit) This lab is a hands-on companion course to the theoretical concepts covered in CSC 315. Through a series of structured labs, interactive simulations, and real-world scenarios, students will gain a deeper understanding of the foundational principles and technologies that drive modern computer networks.

Corequisite: CSC315

CSC325 Web Programming I (3 credits) This is an introductory course that provides a solid foundation in web development concepts and techniques. It focuses on the fundamentals of web programming, including HTML, CSS, and JavaScript. Students will learn how to create static web pages, apply styling using CSS, and add interactivity through client-side scripting with JavaScript. The course will also cover topics such as web design principles, responsive web development, and web accessibility.

CSC332 Systems Analysis & Design (3 credits) This course provides a comprehensive introduction to the principles and practices of System Analysis and Design in the context of developing robust and efficient information systems. Students will engage in problem-solving activities and explore contemporary industry practices and the entire system development life cycle, from understanding business requirements to designing and implementing effective solutions. Topics include system requirements elicitation, analysis, and documentations, system architecture design that meets business objectives, use case modeling, domain modeling, user interface design, database design, object-oriented design, project planning and project management. Selected cybersecurity and ethical issues relevant to this course will be examined.

Prerequisites: CSC315, CSC341

CSC334 Game Design and Development (3 credits) This course delves into the intricacies of creating interactive and immersive digital games and takes students through a comprehensive exploration of advanced techniques, tools, and methodologies used in the game design and programming industry. Students will gain hands-on experience in designing, developing, and optimizing games for various platforms, including consoles, PCs, mobile devices, and VR/AR systems. The course places a strong emphasis on both the technical and creative aspects of game development, allowing students to refine their programming skills while also honing their artistic and design sensibilities. Topics include: Game design and development principles, multiplatform proficiency, optimization techniques, and user experience (UX) design.

Prerequisite: CSC208

CSC341 Operating Systems (3 credits) This course provides a comprehensive introduction to the design, implementation, and functionality of operating systems. Topics include: Process management and scheduling algorithms, memory management and allocation techniques, file systems, input/output (I/O) operations, security, reliability, and performance. Students will examine concepts such as process synchronization, deadlock avoidance, and error handling. They will also explore methods for optimizing system performance through efficient resource management and scheduling strategies.

Prerequisites: CSC202, CSC206, CSC210

CSC341L Operating Systems Lab (1 cr.) This hands-on laboratory course introduces students to essential Linux operating system skills using a modern Linux distribution such as Ubuntu. Students will learn and practice fundamental shell commands, file system navigation, file and directory management, user and group administration, permissions, and basic process and job control using the Bash shell. The course includes use of standard tools such as vi, Nano, top, chmod, chown, and ps. This lab complements the Operating Systems lecture course by providing practical experience in Linux system environments.
Corequisite: CSC 341

CSC344 Advanced Database Systems (3 cr.) This course provides an in-depth knowledge and practical skills necessary to design, develop, and optimize advanced database systems. Topics include: Advanced data models, query optimization techniques, transaction management, distributed databases, and data warehousing. Other advanced topics may be covered, such as database security, data mining, big data management, and cloud databases. Emphasis will be placed on both theoretical foundations and practical implementations, enabling students to apply their knowledge to real-world scenarios. The course is delivered through a combination of lectures, hands-on programming exercises, group discussions, and case studies.

Prerequisite: CSC 314

CSC357 Graph Theory (3 cr.) This course explores the mathematical foundations and practical applications of the Graph Theory, which are essential for understanding and analyzing complex computational problems. Topics include various graph representations, graph terminology, and fundamental graph algorithms such as graph connectivity, spanning trees, graph coloring, matching, and graph traversal algorithms like breadth-first search and depth-first search.

Prerequisites: CSC 210, MAT 204

CSC358 Theory of Computation (3 cr.) This course provides a foundational understanding of the theoretical structures of computer science. It explores the fundamental capabilities and limitations of computation by examining abstract models of computation such as finite automata, pushdown automata, and Turing machines. Students will learn to formalize computational problems, analyse their inherent complexity, and understand the hierarchy of languages and the power of different computational models. Topics covered include regular languages and expressions, context-free grammars and languages, the Church-Turing thesis, decidability and undecidability, and an introduction to computational complexity theory.

Prerequisites: CSC 210, MAT 204

CSC365 Programming Languages (3 cr.) This course provides students with a comprehensive understanding of programming languages, their features, design philosophies, and implementation techniques. Through a combination of theoretical concepts and practical exercises, students will gain insights into how programming languages are designed, how they facilitate different programming paradigms, and how to select the appropriate language for specific tasks. The course delves into the relationship between language syntax, semantics, and program execution, enabling students to write effective, efficient, and maintainable code using a variety of programming languages.

Prerequisite: CSC 210

CSC380 Algorithm Analysis & Design (2 cr.) This is an advanced level course that explores the fundamental concepts of algorithm analysis, the design and implementation of efficient algorithms, and strategies for solving complex computational problems. Topics include: Time complexity, space complexity, asymptotic notation, performance evaluation of algorithms, divide and conquer, greedy algorithms, dynamic programming, backtracking, randomized algorithms, sorting, searching, graph algorithms, approximation algorithms, parallel algorithms, and NP-completeness, providing a deeper understanding of algorithmic complexity and the limitations of computation. The course also emphasizes problem-solving skills and algorithmic thinking. Students will be challenged with problem-solving exercises and programming assignments to apply the concepts learned in class.

Prerequisites: CSC 210, MAT 204

CSC381 Introduction to Data Science (3 cr.) This course is an essential introduction to the field of data science within the context of a computer science program. The course combines theoretical knowledge with hands-on practical experience, enabling students to understand the entire data science pipeline, from data collection and cleaning to analysis, visualization, and interpretation. Topics include: Data acquisition and preprocessing, exploratory data analysis (EDA), basic statistical and probability concepts (measures of central tendency and variability, probability distributions and Bayes' theorem), introduction to machine learning, data visualization, and basic predictive modeling.

Prerequisites: CSC 208, STA 315

CSC414 Project Management (3 cr.) This course introduces the principles and practices of project management. Students will learn how to initiate, plan, execute, monitor, control, and close projects using industry-standard methodologies. Topics include project life cycles, scope management, scheduling, budgeting, risk assessment, quality control, communication, resource allocation, and team coordination. The course emphasizes the use of project management tools and software (e.g., Gantt charts, network diagrams, and project tracking applications), and integrates soft skills such as leadership, teamwork, and stakeholder engagement. Case studies and practical assignments prepare students to manage real-world projects effectively and ethically.

Prerequisite: ENG 201

CSC417 Software engineering (3 credits) This course provides students with a comprehensive understanding of the principles, methodologies, and practices involved in the development of high-quality software systems. It provides students with the essential skills and knowledge necessary to design, develop, test, and maintain software applications efficiently and effectively. Topics include: The software development life cycle (SDLC), requirements engineering, software design principles and patterns, software implementation and coding standards, software testing and quality assurance, software maintenance and debugging, teamwork and collaboration, and ethics and professionalism.

Prerequisites: CSC314, CSC332

CSC420 Information Security (3 credits) This course provides students with a comprehensive understanding of the fundamental concepts, principles, and practices related to information security. It explores the protection of information assets from unauthorized access, disclosure, alteration, destruction, and disruption. Topics include: Threats and vulnerabilities, security policies and standards, risk management, cryptography, network security, application Security, incident response and disaster recovery, legal and ethical considerations, and emerging trends in information security, such as cloud security, mobile security, IOT security, and artificial intelligence in security.

Prerequisites: CSC315, CSC341

CSC424 Mobile Applications (3 credits) This course provides students with a comprehensive understanding of the principles, technologies, and techniques involved in developing mobile applications that run on popular platforms such as iOS and Android. Topics include: Mobile user interface design and user experience, app development frameworks (Swift, Java, Kotlin, React Native, Flutter), app architecture, app testing and debugging, and app deployment and distribution.

Prerequisite: CSC325

CSC425 High-Performance Computing (3 cr.) This course provides a comprehensive introduction to the principles and practices of high-performance computing (HPC). It explores the architectural paradigms, programming models, and software tools necessary to effectively utilize parallel computing systems for solving computationally intensive problems in various scientific, engineering, and data science domains. Students will learn about different parallel architectures, including multi-core processors, shared-memory systems, distributed-memory clusters, and accelerators (like GPUs). The course covers fundamental concepts in parallel algorithm design, parallel programming using models such as shared memory and message passing), performance analysis and optimization techniques, and considerations for developing efficient and scalable parallel applications.

Prerequisites: CSC 210, CSC 341

CSC428 Advanced Computer Networks (3 credits) This advanced course in computer networking explores in-depth concepts and emerging technologies that go beyond the fundamentals covered in the introductory course. Students will delve into advanced networking principles, protocols, and technologies to gain a comprehensive understanding of modern networking architectures. Topics include: Advanced Transport Layer Protocols (MPTCP, SCTP, QUIC), Software-Defined Networking (SDN) and Network Function Virtualization (NFV), Internet of Things (IOT) Networking, Next-

Generation IP Protocols, Advanced Routing Protocols, Wireless and Mobile Networking Advances (5G and beyond), Network Security, and Multimedia Networking.

CSC435 Database Administration (3 credits) This course is a progression from the foundational Database Systems course. It delves deeper into the intricate world of database management, equipping students with advanced skills and knowledge required to effectively administer, optimize, and secure complex database environments. Students will gain a comprehensive understanding of managing database systems for modern applications, ranging from large-scale enterprises to cloud-based solutions. Topics include: Performance optimization, high availability and disaster recovery, security and auditing, advanced database architectures, data warehousing, database monitoring and tuning, cloud database management, advanced SQL and PL/SQL, and data privacy and compliance.

Prerequisite: CSC314

CSC440 Web programming II (3 credits) This course builds upon the foundational knowledge gained in Web Programming I and delves into the dynamic and data-driven aspects of web development, focusing on backend technologies. Students will explore the essential components of server-side programming and database integration to create robust and interactive web applications. Topics include: Server-side scripting (Python, Ruby, or PHP), database integration, user authentication and authorization, API development, server deployment and hosting, performance optimization, web frameworks, and security.

Prerequisite: CSC325

CSC442 Enterprise Systems & Network Administration (2 cr.) This course provides students with a comprehensive understanding of enterprise IT infrastructure, covering the design, deployment, and management of networked systems in corporate environments. Topics include server administration, virtualization, cloud computing, enterprise networking, and IT service management. Students will gain hands-on experience with system configuration, troubleshooting, and automation tools used in modern IT operations. By the end of the course, students will be equipped with the skills necessary to administer enterprise networks and IT systems effectively.

Prerequisites: CSC 315, CSC 341

CSC443 Wireless and Mobile Networks (3 cr.) This course delves into the fundamental principles, architectures, and protocols that underpin modern wireless communication systems. This course emphasizes the networking layers, algorithms, and computational challenges inherent in designing and managing mobile and wireless networks. Topics include the architecture and protocols of Wi-Fi, Bluetooth, cellular networks (GSM, LTE, and 5G network architecture and core network concepts), mobile ad hoc networks, and wireless sensor networks. The course examines aspects such as network management, mobility management algorithms, routing protocols optimized for wireless environments, security considerations from a software and protocol standpoint, and performance analysis.

Prerequisites: CSC 315, CSC 341

CSC444 IT Governance and Risk management (3 cr.) This course provides a comprehensive understanding of the principles and practices of IT governance and risk management within organizations. It explores the frameworks, standards, and methodologies used to ensure that IT investments support business objectives, mitigate risks, and comply with relevant regulations. The course emphasizes the crucial role of IT in organizational strategy and the importance of aligning IT decisions with overall business goals. Students will learn about establishing effective IT governance structures, identifying and assessing IT-related risks, developing and implementing risk mitigation strategies, and monitoring and evaluating the effectiveness of these controls. Topics covered include IT governance frameworks (e.g., COBIT), risk management methodologies, business continuity and disaster recovery planning, regulatory compliance (e.g., GDPR, HIPAA), and the role of IT audit.

Prerequisites: CSC 315, CSC 341

CSC445 E-Commerce and IT Strategy (3 cr.) This course explores the strategic role of Information Technology (IT) in the context of electronic commerce (E-Commerce). It examines how organizations can leverage IT to develop, implement, and manage successful online business models and gain a competitive advantage in the digital marketplace. The course covers the fundamental principles of E-Commerce, including online marketing, sales, customer relationship management, supply chain management, and payment systems. It then delves into the IT strategies and technologies that underpin these E-Commerce activities, such as website design and development, e-commerce platforms, data analytics, cloud computing, mobile commerce, and security. The course will also touch upon legal, ethical, and social implications of E-Commerce.

Prerequisites: CSC 315, CSC 341

CSC446 Network Management (3 credits) This course equips students with the knowledge and skills necessary to effectively plan, implement, and maintain modern computer networks. This course goes beyond the theoretical understanding of network protocols and technologies, focusing on practical aspects of network administration and optimization. Students will explore key concepts in network design, monitoring, troubleshooting, and security, preparing them for roles in network administration and management. Topics include: Network Planning and Design, Network Configuration and Implementation, Network Monitoring and Performance Optimization, Fault Detection and Troubleshooting, Network Security Management, Wireless Network Management, Network Documentation and Standards, and Network Administration Tools and Platforms.

Prerequisite: CSC315

CSC448 Network Security (3 credits) This course introduces the basic terminology, concepts and mechanisms of network security. Explain Network-Based v. Host-Based threats, vulnerabilities, and attacks. This course introduces also the fundamentals of cryptography, as well as its applications and issues of how cryptography is used in practice. Some technology case studies are presented and evaluated.

Prerequisite: CSC420

CSC451 Machine Learning (3 cr.) This course offers a foundational introduction to machine learning, covering core concepts, methodologies, and algorithms central to

artificial intelligence. Students will study probability theory, linear algebra, and optimization as they explore supervised learning (classification, regression), unsupervised learning (clustering, dimensionality reduction), semi-supervised, and reinforcement learning. Key algorithms include logistic regression, K-means, k-NN, Naïve Bayes, decision trees, PCA, SVMs, and neural networks. Students will apply concepts through hands-on programming assignments and projects using Python and libraries like Scikit-learn and TensorFlow. The course emphasizes both theoretical understanding and practical implementation of machine learning techniques in real-world problem-solving contexts.

Prerequisites: CSC 351, MAT205, STA315

CSC452 Natural Language Processing (3 cr.) This advanced course integrates linguistics, computer science, and AI to teach machines to understand and generate human language. Students will explore foundational NLP concepts and apply computational techniques to tasks such as text pre-processing, language modelling, syntax parsing, and semantics, named entity recognition, sentiment analysis, machine translation, and information retrieval. Advanced applications include text summarization, question answering, and dialogue systems. The course blends theory with hands-on experience through coding exercises and projects using real-world datasets. Students will work with popular NLP tools and libraries such as NLTK, spaCy, TensorFlow, and PyTorch, developing both theoretical insight and practical skills in NLP.

Prerequisite: CSC451

CSC453 Computer Vision (3 cr.) This course explores the principles and techniques involved in understanding and analyzing digital images and videos. It focuses on developing the fundamental knowledge and skills required to process, interpret, and extract meaningful information from visual data using computer algorithms. Topics include: image formation and acquisition, feature extraction, image enhancement and restoration techniques, object detection and recognition, image segmentation and object tracking, motion estimation and optical flow, and stereo vision and 3D reconstruction. Other advanced topics may include introduction to deep learning for computer vision, convolutional neural networks (CNNs) for image classification, object detection using CNNs, semantic segmentation and image synthesis and other case studies and applications.

Prerequisites: MAT205, STA315, CSC210

CSC454 Big Data Analytics (3 cr.) This course will explore the fundamental concepts and methodologies employed in big data analytics, including data acquisition, storage, processing, and visualization. Students will gain practical skills in working with big data using various technologies and platforms commonly used in industry. Through a combination of theoretical knowledge and hands-on exercises, students will develop the necessary skills to tackle real-world big data challenges. Topics include: Data acquisition and preprocessing, data storage and management, distributed computing with Hadoop, distributed data processing with Spark, data manipulation and analysis using Python and SQL, statistical analysis and machine learning with big data, data visualization and reporting, ethical considerations, and real-world applications and case studies.

Prerequisites: MAT204, CSC210

CSC458 Deep Generative Models (3 cr.) This course delves into the fascinating world of generative models in artificial intelligence, focusing on advanced techniques and algorithms that enable computers to generate data that closely resembles real-world examples. Students will explore various deep learning architectures and methodologies used for generating diverse and high-quality data, including images, text, and other complex forms of information. Topics include: Probabilistic modeling, variational auto encoders (VAEs), generative adversarial networks (GANs), flow-based models, and sequence generation with recurrent neural networks (RNNs).

Prerequisite: CSC351

CSC459 Reinforcement Learning (3 cr.) This course provides a comprehensive understanding of the theoretical foundations, algorithms, and practical applications of reinforcement learning in the context of artificial intelligence. Reinforcement learning is a subfield of machine learning that focuses on enabling agents to make sequential decisions in an environment to maximize cumulative rewards. This course will cover key concepts, algorithms, and techniques used in reinforcement learning, equipping students with the knowledge and skills necessary to design, implement, and analyze intelligent systems that can learn and adapt through interaction.

Prerequisite: CSC351

CSC462 Deep Learning (3 cr.) This course provides an in-depth understanding of the theoretical foundations, methodologies, and practical applications of deep learning in the field of artificial intelligence. Students will gain the knowledge and skills required to tackle complex AI problems and contribute to cutting-edge research and applications. Topics include: Advanced neural architectures, optimization algorithms, NLP with deep learning, computer vision with deep learning, generative adversarial networks, reinforcement learning, transfer learning, and ethical and social implications.

Prerequisite: CSC451

CSC461 Cloud Computing (3 cr.) This course provides an in-depth understanding of the fundamental concepts, technologies, and best practices associated with cloud computing. The course covers a wide range of topics, including cloud service models (IaaS, PaaS, SaaS), cloud deployment models (public, private, hybrid), virtualization, containerization, cloud architecture, scalability, security, and cost management. Through a combination of lectures, hands-on labs, and projects, students will gain practical experience in designing, deploying, and managing applications and services in cloud environments. The course also explores the latest trends and innovations in cloud computing, preparing students to contribute effectively to modern IT infrastructures.

Prerequisites: CSC314, CSC315

CSC464 Blockchain Technologies (3 cr.) This course provides a comprehensive introduction to blockchain technologies, emphasizing their technical foundations and real-world applications. Students will delve into cryptographic principles, decentralized consensus mechanisms, and the mechanics of Bitcoin, including transactions, mining, and network structure. The curriculum covers Bitcoin's approach to anonymity and privacy, the impact of politics and regulation, and the ecological considerations of mining. Additionally, the course explores alternative cryptocurrencies (Altcoins), smart contracts, and the use of blockchain as a platform for decentralized applications. By examining these

topics, students will gain a deep understanding of the potentials and challenges of blockchain, preparing them to apply this knowledge across various industries.

Prerequisites: CSC210, CSC314, CSC315

CSC466 Incident Response and Digital Forensics (3 cr.) This course provides students with a comprehensive understanding of the principles, techniques, and methodologies involved in managing and responding to cybersecurity incidents, as well as the process of conducting digital forensics investigations. Students will learn how to effectively detect, analyze, and mitigate security breaches, as well as collect and preserve digital evidence for legal and investigative purposes. The course covers both theoretical concepts and practical hands-on exercises to equip students with the necessary skills to handle real-world cybersecurity incidents and conduct digital forensics analysis.

Prerequisite: CSC420

CSC467 Cryptography (3 cr.) This course provides a comprehensive understanding of the principles, techniques, and applications of cryptography. Cryptography plays a crucial role in securing information and communication in various digital systems, ranging from online transactions to data protection. Topics include: Encryption, decryption, ciphers, keys, confidentiality, integrity, authenticity, non-repudiation, symmetric and asymmetric cryptography, cryptographic protocols, cryptanalysis, hash functions, and message digests.

Prerequisites: CSC420, MAT204

CSC471 Ethical Hacking & Penetration Testing (3 cr.) This course provides a comprehensive understanding of the tools, techniques, and methodologies used by ethical hackers to identify and address vulnerabilities within computer systems, networks, and applications. This course focuses on developing the skills required to assess security weaknesses and recommend appropriate safeguards, all while adhering to legal and ethical standards. Topics include: Reconnaissance and information gathering, network discovery and port scanning, vulnerability assessment, exploitation and penetration, post-exploitation and privilege escalation, web application security, wireless network security, reporting and remediation, and legal and ethical considerations.

Prerequisites: CSC420

CSC473 Digital Forensics (3 cr.) This is a comprehensive course that provides a solid foundation in the principles, techniques, and methodologies used to investigate and analyze digital evidence in a variety of contexts. As the digital landscape continues to expand, the importance of understanding how to effectively extract, preserve, and interpret digital information for legal, cybersecurity, and investigative purposes has become paramount. Topics include: Digital evidence and legal framework, file systems and data storage, data acquisition and imaging, data recovery and reconstruction, network forensics, mobile and cloud forensics, forensic analysis tools, and malware analysis.

Prerequisites: CSC420

CSC483 Data Wrangling & preprocessing (3 cr.) This course provides the essential skills and techniques required to effectively manage, clean, and preprocess raw data into a format suitable for analysis and modeling. In the realm of data science and analytics,

data wrangling and preprocessing play a critical role in ensuring the quality and reliability of insights extracted from data. Topics include: Data Preparation, data cleaning techniques, data transformation, feature engineering, text and time series data, data integration, data reshaping, data quality assessment, and automation and reproducibility.

Prerequisite: CSC381

CSC484 Business Intelligence & Data Visualization (3 cr.) This course provides a comprehensive understanding of the concepts, tools, and techniques involved in transforming raw data into meaningful insights for informed decision-making within a business context. In an increasingly data-driven world, the ability to extract valuable insights from data and present them effectively is a critical skill for professionals across various industries. Topics include: Data gathering and preparation, data warehousing, data visualization principles and tools, exploratory data analysis (EDA), dashboard design and creation, and storytelling with data.

Prerequisite: CSC381

CSC491A Senior Project I (1 cr.) This is the first part of a two-semester senior design course for computer science students, focusing on the initial stages of a real-world project. Students work in teams of 2–3 to identify a significant problem, conduct feasibility studies, gather user requirements, and develop an initial design. Emphasis is placed on project planning, research methodologies, and the early phases of the software development lifecycle. Students apply skills gained throughout their academic career while developing effective teamwork, communication, and project management strategies. Faculty and industry mentors provide guidance and feedback throughout the semester. By the end of the course, teams will produce a detailed project proposal, including a clear problem statement, defined objectives, and a preliminary design framework to support continued development.

Prerequisite: Senior standing

CSC492B Senior Project II (2 cr.) This is the second part of a two-semester senior design course, focused on implementing, testing, and refining the project proposed in the first semester. Students work in teams to develop a functional prototype, applying technical skills, research, and problem-solving strategies. Emphasis is placed on agile development, quality assurance, and iterative improvement. Faculty and industry mentors provide ongoing guidance and feedback. Students conduct user evaluations to enhance usability and effectiveness. The course culminates in a formal presentation to faculty and peers, demonstrating each team's technical capabilities, collaboration, and impact. Projects serve as valuable portfolio pieces and preparation for careers or further study.

Prerequisite: CSC491

CSC495 Internship (1 cr.) The Internship provides students with practical experience in a professional setting, allowing them to apply computer science knowledge in real-world environments. Students work in organizations—ranging from startups to established tech firms—for a minimum of six weeks, contributing to projects aligned with their skills and interests. Guided by industry professionals

and academic supervisors, they engage in meaningful tasks, gaining insight into industry practices and challenges. The internship emphasizes professional growth, requiring students to reflect on their experiences, document achievements, and assess their performance. Feedback from industry mentors helps students identify strengths and areas for improvement, enhancing both technical and professional development.

Prerequisite: Senior standing.

CSC501 Machine Learning and Applications (3 cr.) This course provides an in-depth introduction to the field of machine learning, focusing on both theoretical foundations and practical applications. Students will learn various algorithms and techniques, including supervised learning, unsupervised learning, and reinforcement learning. The course will cover essential concepts such as data preprocessing, model training, evaluation, and optimization. Topics include: Supervised Learning: Linear and logistic regression Decision trees and random forests Support vector machines SVM, Neural networks and deep learning; Unsupervised Learning: Clustering algorithms (K-means, hierarchical clustering), Principal Component Analysis (PCA). Practical implementation of algorithms using programming languages such as Python and libraries like scikit-learn, TensorFlow, and PyTorch.

CSC502 AI and Data Ethics, Policy, and Privacy (3 cr.) This course provides a comprehensive examination of the ethical, policy, and privacy issues related to data collection, usage, and management. Students will explore the ethical implications of data-driven decision-making, learn about the regulatory landscape governing data privacy, and understand the best practices for ensuring responsible data stewardship. This course is ideal for students and professionals interested in the ethical, legal, and societal implications of data and technology, aiming to promote responsible and informed data practices.in various domains.

CSC503 Computer Vision (3 cr.) This course introduces the fundamental concepts and techniques of computer vision, enabling students to understand and develop systems that can interpret and analyze visual information from the world. Topics include: image processing, feature extraction, object recognition, motion analysis, and deep learning for vision. It includes: Image Processing, filtering and edge detection, color processing and transformations; Object Detection and Recognition; Motion Analysis and optical flow and tracking; 3D Vision and Deep Learning for vision.

CSC504 Deep Learning (3 cr.) Deep learning is a subset of machine learning that focuses on neural networks with many layers (hence "deep"). This course covers the following topics: Introduction to Neural Networks; Basic concepts of neurons and neural networks; Activation functions (e.g., sigmoid, ReLU); Feedforward neural networks.; Training Neural Networks; Loss functions and optimization techniques (e.g., gradient descent, stochastic gradient descent); Backpropagation algorithm; Deep Learning Architectures; Convolutional Neural Networks (CNNs) for image processing; The course often includes hands-on projects and assignments to help students gain practical experience in building and deploying deep learning models and apply the of Deep Learning on Computer vision (e.g., image classification, object detection), natural language processing, speech recognition and synthesis.

CSC505 Natural Language Processing (3 cr.) This course provides an introduction to the field of Natural Language Processing (NLP), focusing on the computational techniques and models used to process and analyze human language. Students will learn about various NLP tasks, including text classification, sentiment analysis, machine translation, and language generation, and will explore both traditional approaches and modern deep learning techniques. Topics include: Text Preprocessing; Text Classification and Sentiment Analysis; Deep Learning for NLP; Machine Translation and Sequence-to-Sequence Models; Language Generation

CSC506 Biometrics (3 cr.) Biometrics is a field of study that involves the statistical analysis of biological data. This course covers the following topics: Introduction to Biometrics; Biometric Systems Component; Biometric Modalities: Fingerprint recognition, face recognition, voice recognition, Pattern recognition and Matching; Performance Evaluation; Security and Privacy. This course is designed for students in computer science, information technology, and related fields who are interested in the rapidly evolving area of biometric technology and its applications.

CSC512 Reinforcement Learning (3 cr.) Reinforcement learning (RL) is a type of machine learning where an agent learns to make decisions by performing actions in an environment to maximize cumulative rewards. This course covers the following topics: Introduction to Reinforcement Learning; Basics of RL, Markov Decision Processes (MDPs);
Dynamic Programming; Monte Carlo Methods; Temporal Difference (TD) Learning; Function Approximation; Policy Gradient Methods; Advanced Topics in Reinforcement Learning. Applications of Reinforcement Learning: Robotics, game playing and autonomous systems (e.g., self-driving cars). The course often includes theoretical lectures, practical assignments, and projects to provide students with both the theoretical understanding and practical skills necessary to develop and apply RL algorithms.

CSC526 Data Mining (3 cr.) This course introduces data mining as the process of discovering patterns, correlations, and anomalies in large datasets to support prediction and decision-making. Topics include data pre-processing, integration, transformation, dimensionality reduction, discretization, and normalization. Students will explore classification methods such as decision trees, random forests, k-NN, Naive Bayes, logistic regression, and SVMs, along with model evaluation techniques like confusion matrices, ROC curves, and cross-validation. Clustering techniques, including k-means and hierarchical clustering, are also covered. Through lectures, hands-on exercises, and projects, students will gain theoretical and practical experience using tools like R and Python with libraries such as Scikit-learn, pandas, and TensorFlow.

CSC534 Advanced Topics in AI and Data Science (3 cr.) Advanced topics in AI and data science dive deeper into sophisticated techniques and emerging trends in the field. These topics often involve complex mathematical concepts and require a solid understanding of foundational AI and data science principles. Key areas include: Deep Learning; Reinforcement Learning; Generative Models; Bayesian Methods; Big Data Technologies; Optimization Techniques; Computer Vision.

CSC535 Data Visualization (3 cr.) this course covers the principles and practices of presenting data in a visual format to facilitate understanding and decision-making. This course aims to develop skills in both the technical aspects of creating visualizations and the conceptual understanding of how to use them to convey information effectively. Key

components of the course include: Principles of Visualization; Types of Visualizations; Tools and Software: Hands-on training with popular visualization tools and software, such as Python libraries like Matplotlib and Seaborn; Data Preparation: Techniques for cleaning, transforming, and structuring data to ensure it is ready for visualization; Interactive Visualization: Techniques for creating interactive and dynamic visualizations that allow users to explore data on their own; Case Studies and Applications: Real-world examples and projects to apply visualization techniques to various types of data and domains.

CSC536 Time Series and Forecasting (3 cr.) Time series analysis is a branch of statistics and data science that deals with analyzing and forecasting data points collected or recorded at specific time intervals. This course provides the necessary theoretical background and practical skills to analyze temporal data. Key Topics Covered: Introduction to Time Series Analysis; Time series components: trend, seasonality, cycle, and irregular components; Time domain versus frequency domain analysis; Autocorrelation and partial autocorrelation functions; Time Series Decomposition: Additive and multiplicative models; Smoothing Methods: Moving averages and Exponential smoothing: Simple, Holt, and Holt-Winters methods; Time Series Model: Autoregressive (AR) models, Moving Average (MA) models, Autoregressive Integrated Moving Average (ARIMA) models; Seasonal ARIMA (SARIMA) models; Vector Auto-regression (VAR) models; Forecasting; Applications with Eviews software.

CSC537 Advanced Inference Statistics (3 cr.) Advanced Inference Statistics delves into the theoretical foundations and practical applications of statistical inference methods. Key Topics include: Probability distribution: T (Student), X2(Pearson), and F (Fisher) distributions. The sampling theory, the central limit theorem. The estimation theory: confidence interval, estimation of the mean and variance from one sample, Estimation of the difference of means from two samples, Estimation of the ratio of variances from two samples, estimation of proportions, Bayesian estimation and Maximum likelihood estimation. Hypothesis test: The null and alternative hypothesis, level of significance, critical values, p-values, comparing the difference between 2 means, comparing several means, analysis of variance ANOVA .comparing the ratio of 2 variances. Nonparametric tests. Regressions and multiple regressions. Applications with R, Excel and SPSS.

CSC538 Game Theory (3 cr.) Game theory is the study of mathematical models of strategic interaction among rational decision-makers. The course covers topics such as: Basic Concepts: Definitions of games, strategies, payoffs, and equilibria; Types of Games: Zero-sum games, cooperative vs. non-cooperative games, and dynamic games.; Nash Equilibrium: The concept where no player can benefit from changing their strategy while others keep theirs unchanged; Mixed Strategies: Strategies that involve randomizing choices to achieve a better outcome; Repeated Games: Analysis of games played more than once, allowing for strategies that depend on previous outcomes; Bayesian Games: Games with incomplete information where players have beliefs about the types of other players; Applications: Real-world applications in economics, political science, and social sciences.

CSC541 Advanced Network Design and Architecture (3 cr.) This course provides an in-depth exploration of advanced concepts in network design and architecture. Students will engage with both theoretical and practical aspects of modern network systems, focusing on the design principles and architectural frameworks that support

large-scale, high-performance networks. Topics include: Advanced routing and switching techniques, network protocols and their optimization, network security and resiliency, software-defined networking (SDN) and network function virtualization (NFV), cloud and data center networking, wireless and mobile networking, and performance analysis and network simulation. Students will work on projects that involve designing and implementing network solutions for complex scenarios, utilizing state-of-the-art tools and methodologies. By the end of the course, students will be equipped with the skills to design robust, scalable, and efficient network architectures suitable for a variety of applications in industry and research.

CSC542 Advanced Network Security and Applications (3 cr.) This course delves into the aspects of network security, exploring the theoretical foundations and practical applications necessary to protect networked systems. Students will learn about the latest techniques and technologies used to secure networks against various threats and vulnerabilities. Key topics include: Fundamentals of network security, cryptographic protocols and their applications, authentication and authorization mechanisms, network intrusion detection and prevention systems (IDS/IPS), firewalls and VPNs, secure network architectures, wireless security, incident response and forensic analysis, emerging threats and advanced persistent threats (APTs), and security policies, standards, and compliance. Through a combination of lectures, hands-on labs, and projects, students will gain practical experience in implementing and managing security measures in networked environments.

CSC543 Cloud Computing and Virtualization (3 cr.) This course explores the fundamental and advanced concepts of cloud computing and virtualization technologies. Students will gain a thorough understanding of cloud architecture, service models, deployment strategies, and the use of virtualization to optimize and manage computing resources. Key topics include: Cloud service models: IaaS, PaaS, SaaS, cloud deployment models: public, private, hybrid, and multi-cloud, virtualization technologies, data centers and their design, cloud security and compliance, server less computing, and cloud migration and management. Students will engage in practical exercises using leading cloud platforms and virtualization tools, enabling them to design, deploy, and manage cloud-based solutions effectively. The course also covers current trends and future directions in cloud computing and virtualization.

CSC544 Advanced System and Network Administration (3 cr.) This course provides an in-depth exploration of advanced techniques and best practices in system and network administration. Students will learn to manage complex IT infrastructures, focusing on automation, security, performance optimization, and troubleshooting. Topics include: Advanced server and network configuration, scripting for automation, network services management, security protocols, and incident response. Through hands-on labs and projects, students will gain practical experience in maintaining and securing large-scale systems and networks, preparing them for senior roles in IT administration.

CSC545 IOT Networking and Security (3 cr.) This course delves into the unique networking and security challenges posed by the Internet of Things (IOT). Students will learn about IOT architectures, communication protocols, and network design principles tailored for IOT environments. The course also covers critical security issues, including threat modeling, secure communication, authentication, and privacy in IOT systems. Through hands-on projects and case studies, students will gain practical experience in

designing and securing IOT networks, preparing them for advanced roles in IOT development and cybersecurity.

CSC546 Advanced Blockchain Technologies and Applications (3 cr.) This course provides a comprehensive overview of blockchain technology, exploring its underlying principles, architecture, and applications. Students will learn about distributed ledgers, consensus algorithms, smart contracts, and cryptographic techniques. The course covers various blockchain platforms, use cases, and the potential impact of blockchain on industries such as finance, supply chain, and healthcare. Through hands-on labs and projects, students will gain practical experience in developing and deploying blockchain-based solutions, preparing them for advanced roles in blockchain development and research.

CSC551 Wireless Networks (3 cr.) This course explores the principles, technologies, and protocols underlying modern wireless networks. Students will study wireless communication fundamentals, including radio frequency (RF) principles, signal propagation, and modulation techniques. The course covers various wireless networking standards and technologies, such as Wi-Fi, Bluetooth, cellular networks, and emerging 5G networks. Security, performance optimization, and network management in wireless environments are also discussed. Through hands-on labs and projects, students will gain practical experience in designing, deploying, and troubleshooting wireless networks, preparing them for advanced roles in wireless communications and network management.

CSC554 Advanced Topics in Information Technology (3 cr.) This course examines cutting-edge developments and emerging trends in the field of Information Technology. Students will explore a range of advanced topics such as artificial intelligence, machine learning, big data analytics, cybersecurity, cloud computing, and blockchain technologies. The course emphasizes the integration and application of these technologies to solve complex problems and drive innovation. Through lectures, case studies, and hands-on projects, students will gain insights into the latest IT advancements and their practical implications, preparing them for leadership roles in technology-driven organizations.

CSC561 Threat Analysis and Incident Response (3 cr.) This course provides a comprehensive understanding of the methodologies and tools used in threat analysis and incident response. Students will learn to identify, analyze, and mitigate various cyber threats through the study of attack vectors, threat intelligence, and vulnerability assessment. The course covers the development of incident response plans, forensic investigation techniques, and the use of security information and event management (SIEM) systems. Through hands-on labs and real-world scenarios, students will gain practical skills in detecting and responding to security incidents, preparing them for advanced roles in cybersecurity and incident management.

CSC563 Risk Management and Compliance (3 cr.) This course explores the principles and practices of risk management and compliance in the context of information technology and cybersecurity. Students will learn to identify, assess, and mitigate risks associated with IT systems and data, and understand the regulatory and compliance requirements relevant to various industries. Key topics include risk assessment frameworks, compliance standards (such as GDPR, HIPAA, and PCI-DSS), and the development of risk management strategies. Through case studies and practical exercises, students will gain skills in implementing effective risk management and compliance programs, preparing them for roles in risk management and regulatory compliance.

CSC571 Cybersecurity Management and Leadership (3 cr.) This course focuses on the strategic and managerial aspects of cybersecurity, emphasizing leadership skills necessary for managing and directing cybersecurity teams and initiatives. Students will explore topics such as cybersecurity governance, risk management, incident response strategies, and the integration of security policies with business objectives. The course covers leadership principles, strategic planning, and the communication of security strategies to stakeholders. Through case studies, leadership exercises, and project work, students will develop the skills to effectively lead cybersecurity efforts and manage complex security challenges, preparing them for senior roles in cybersecurity management.

CSC581 Pattern recognition and Matching (3 cr.) This course introduces the fundamental concepts, techniques, and applications of pattern recognition. Key Topics include: Statistical Pattern Recognition, Probability theory and statistics, Bayesian decision theory, Maximum likelihood estimation; Dimensionality reduction: Principal Component Analysis (PCA), Linear Discriminant Analysis (LDA); Classification Techniques: Nearest neighbor Support vector machines (SVM), Decision trees, Neural networks; Cluster Analysis: K-means, clustering, Hierarchical clustering; Pattern Recognition in Neural Networks; Performance Evaluation: Confusion matrix, ROC curves and AUC; Applications of Pattern Recognition in Image and speech recognition, Bioinformatics, Text and document analysis.

CSC582 Digital Image Processing (3 cr.) This course provides an in-depth understanding of the fundamental principles and techniques used in digital image processing. Key Topics include: image Enhancement: spatial domain method, frequency domain methods, histogram equalization, contrast enhancement, noise reduction techniques; Image Restoration: degradation models, noise models, filtering techniques (Wiener filter, median filter), inverse filtering; Color Image Processing: color models (RGB, HSV, YCbCr), color transformations; Image Segmentation: Thresholding, edge detection (Sobel, Canny), region-based segmentation, clustering-based segmentation; Morphological Image Processing: Dilation, erosion, opening, closing, morphological algorithms; Image Compression; Feature Extraction and Recognition: Corner and edge detection, Texture analysis.

CSC583 Graph Theory (3 cr.) This course provides a comprehensive introduction to graph theory, the mathematical study of graphs used to model pairwise relationships between objects. Topics include fundamental concepts, Eulerian and Hamiltonian paths and circuits, graph representations, and special graph classes. Students will explore key algorithms such as depth-first search, Dijkstra's and Bellman-Ford shortest path algorithms, Kruskal's and Prim's minimum spanning trees, and the Ford-Fulkerson method for network flows. Advanced topics include graph colouring, planarity, isomorphism, and spectral graph theory. The course emphasizes both theory and real-world applications across computer science, biology, social sciences, operations research, and engineering through lectures, problem-solving, and projects.

CSC584 Ethical and Legal Issues in Computing (3 cr.) This course examines the ethical and legal challenges associated with computing technologies, focusing on issues such as data privacy, intellectual property, cybersecurity law, and the social impact of technology. Students will explore regulatory frameworks, ethical theories, and case studies to understand the complex landscape of technology ethics and law. A key component of the course involves developing a comprehensive research paper on a selected

topic related to ethical and legal issues in computing. Students will identify a research question, conduct a literature review, analyze relevant case studies, and propose solutions or recommendations. The course includes guidance on research methodologies, academic writing, and critical analysis, culminating in a formal presentation of their research findings.

CSC585 Quantum Computing (3 cr.) This course provides an in-depth exploration of quantum computing fundamentals and applications. Students will study quantum bits (qubits), superposition, entanglement, and quantum gates. Topics include quantum algorithms such as Shor's algorithm for integer factorization and Grover's algorithm for search problems. Students will gain practical experience with quantum programming languages like Qiskit and IBM's Quantum Experience platform. The course includes hands-on projects involving quantum simulations and analysis of quantum algorithms' performance.

CSC586 Computational Neuroscience (3 cr.) This course examines the intersection of computer science and neuroscience, focusing on computational models of brain function. Topics include neural network modeling, brain-inspired algorithms, and the simulation of neural circuits. Students will explore how computational techniques can be applied to understanding brain processes and developing brain-computer interfaces. The course includes practical projects involving neural network simulations and data analysis.

CSC587 Advanced Topics in Distributed Systems (3 cr.) This course explores advanced concepts in distributed systems, including distributed algorithms, consistency models, and fault tolerance. Students will study topics such as distributed consensus, cloud-native architectures, and large-scale data processing. The course involves hands-on projects that involve building and evaluating distributed applications and systems, using tools like Apache Kafka and Kubernetes.

CSC596 Graduate Project (3 cr.) This course provides graduate students with an opportunity to undertake a significant practical project in their field of study. Students will select a topic of interest, conduct comprehensive research, and apply advanced methodologies to address a specific problem or challenge. The project may involve original research, system development, or the implementation of innovative solutions. Throughout the course, students will receive guidance on project planning, research methods, and technical writing. The course culminates in a final project report and presentation before a jury, demonstrating the students' ability to apply their knowledge and skills to real-world problems.

CSC598 Thesis I (3 cr.), CSC 599 Thesis II (3 cr.) This a series of two consecutive courses designed for graduate students to conduct original research and develop a comprehensive thesis that contributes to their field of study. Students will define a research topic, conduct extensive literature reviews, design and execute research methodologies, and analyze data to address a specific research question. The course provides guidance on academic writing, research ethics, and the presentation of findings. The final deliverable is a written thesis that demonstrates the student's ability to perform independent research and contribute new knowledge to their discipline, culminating in a formal defense before a jury.

ENV201 Man in the Environment (3 credits) The natural world is fundamental to the development and survival of Man, yet this very development has endangered this earthly space with forces of degradation and pollution. The course highlights the significance of

nature and its importance to human survival as well as the impact of man's activities on the environment and ultimately himself.

Corequisites: ENG200 or ENG260

ENV332 Environmental Impact Assessment (3 credits) Introduces the methodologies and theoretical approaches of impact assessment, their usefulness as well as their applications, effectiveness and results with case studies and examples from around the world, and mode of operation in international and regional bodies.

ENV380 Sustainable Development (3 credits) In an ever-growing world, sustainability is integral to future development, so adverse environmental impact should be minimized and the beneficial revenues in cash and kind should be maximized. The course emphasizes the concepts, tools and applications of sustainable development stressing rural development and its importance.

GEO201 Geology (3 credits) Physical aspects of the science of geology; common rocks and minerals; engineering properties of rocks; earth's processes and structure in solving engineering problems; historical aspects of geology; application of geological science.

GEO220 GIS and Remote Sensing (3 credits) This course provides a basic, theoretical, and practical understanding of maps, AutoCAD and GIS concepts and technical issues applied to Water Resources.

Prerequisites: WGS220, GEO201

GEO302 Applied Geomorphology (3 credits) An introduction to surficial processes and landforms; Fluvial, Aeolian, glacial, karst and coastal zone processes; Interpretation of air photos and maps; applications of the applied geomorphology science in solving problems of a geological and geo environmental nature.

Prerequisites: GEO201

HLT210 Health and Wellness (3 credits) Covers diversified concepts including stress management, human sexuality, nutrition and exercise, disease prevention, alternative medicine, drug use and abuse, and a healthy environment. It is a course with daily application for the student in her/his life. It helps her/him build up a holistic analysis of health and its impact on the self and its environment. It will contribute to developing responsibility.

HOM260 Food Safety (3 credits) The course will cover the basic aspects of food safety with primary emphasis on food handling and quality control. The types of food borne illnesses and how they are transmitted, personal hygiene, the seven HACCP principles will be topics stressed in the course. The course will also include an overview of pest control and security measures.

Prerequisite: ENG201

MAT100 College Algebra (4 credits) Real numbers and their properties; first-degree equations and inequalities; exponents and polynomials; operations with rational expressions; radicals, and rational exponents; Quadratic equations, inequalities; equation of a straight line; systems of equations and inequalities; functions; exponential functions; logarithmic functions.

Corequisite: ENG010

MAT101 Calculus I (3 credits) Functions and graphs; Trigonometric functions; Logarithmic and exponential functions; Rate of change; Limit and continuity; Tangent lines; Derivatives; Differentiation rules; Applications of derivatives: extreme values, graphing functions, optimization and differentials.

Prerequisites: Placement or MAT100

MAT102 Calculus II (3 credits) Indefinite integrals; Definite integrals; Techniques of integration: integration by substitution, integration of trigonometric functions, integration of transcendental functions, integration by parts, integration using partial fractions and trigonometric substitutions; Applications of integrals: differential equations, area, and volume; L'Hôpital's rule.

Prerequisites: MAT101; **Corequisites**: ENG010

MAT200 Logic and Mathematics in Life (3 credits) This course covers the basic principles of logic to help students improve their reasoning skills. It also helps students become fluent in the symbolic language of mathematics so they can efficiently read, write, learn, and think mathematical thoughts as well as relate mathematics to many day- to-day life experiences.

MAT203 Calculus III (3 credits) To introduce students to the methods and applications of calculus and to a mathematical way of thinking. After completing this course, students should be well versed in the mathematical language needed for applying the concepts of calculus to numerous applications in science and engineering. They should be prepared for courses in differential equations, linear algebra, or advanced calculus.

MAT204 Discrete Mathematics (3 credits) Logic; Propositional Equivalences; Predicates and Quantifiers; Methods of Proof; Sets; Functions; Proof Strategy; Mathematical Induction; Recursive Definitions; Permutations and Combinations; Relations and their Properties; Representing Relations; Equivalence Relations; Introduction to graphs; Graph Terminology; Introduction to Trees.

Prerequisites: MAT101, MAT011

MAT205 Linear Algebra (3 credits) Matrices and their properties; Methods for solving systems of linear equations; Gaussian and Gauss-Jordan elimination; Vector spaces and subspaces; Inner product spaces; Gram-Schmidt process; determinants and their properties; Cramer's rule; Eigenvalues and eigenvectors; Diagonalization; Linear transformation.

Prerequisites: MAT101, MAT011

MAT210 Applied Sciences (3 credits) Review on Integration; Review on Exponential and Logarithmic Functions; Sequences & Series; Introduction to Numerical Analysis: Root Finding Strategies; Numerical Differentiation; Numerical Integration; Error Propagation; Matrix Operations.

MAT221 Calculus for Applied Math for Business (3 credits) This subject applies mathematical techniques to address challenging problems in business and economics. The course explores functions as well as limits and derivatives while teaching optimization techniques for business applications. It uses Interactive tech tools support dynamic,

experiential learning. This course finally develops analytical skills that help students make decisions based on data analysis.

Prerequisites: MAT100 or placement; ENG020 (co)

MAT225 Ordinary Differential Equations (3 credits) First-order equations: Exact, Separable, Linear, Bernoulli; Higher-order linear differential equations; Homogeneous equations with constant coefficients; Non-homogeneous equations; Undetermined coefficients; Variation of parameters; The Cauchy-Euler Equation; Power series solutions.

Prerequisites: MAT102, MAT011

MAT315 Numerical Methods (3 credits) Error definitions, round-off errors; The Taylor Series; The bisection method; The false position method; Simple fixed-point iteration, The Newton-Raphson method; The Secant method; Muller's method; Gauss elimination; Least squares regression; Interpolating polynomials; Numerical integration.

Prerequisite: MAT102

MAT513 Advanced Math for Sciences (3 credits) This course covers the concepts and theories of linear system analysis; Linear Transformations with Applications in CSC; Fourier series; Laplace transform; Hidden Markov models; Partial differential equations; statistical distribution functions; combination of random variables; stochastic sum; properties of transfer function matrices; minimal realization.

Prerequisites: MAT205, MAT210, STA315

NTR201 Introduction to Nutrition (3 credits) An introduction to the study of carbohydrates, fats, proteins, vitamins and minerals and their effects on health. An overview of the processes of digestion, absorption and their metabolism.

Prerequisites: NTR211, CHE201

NTR211 Food and Nutrition (3 credits) Basic nutrition concepts applied to the needs of individuals, families and communities. The food sources, digestion, metabolism, functions and requirements of basic nutrients are covered.

Prerequisite: BIO201

NTR231 Food Chemistry (3 credits) An introduction to the basic principles of food science and the chemical and physical properties of food components. Emphasis is placed on the chemistry of carbohydrates, lipids, proteins, water, vitamins, and minerals as they relate to food preparation, processing, and preservation.

Prerequisites: NTR211, CHE201

NTR313 Nutrition Assessment (3 credits) Exposes students to the theoretical basis of various aspects of nutritional assessment (counseling dietary assessment, anthropometric measurement, biochemical assays, and clinical assessment). The course also familiarizes students with nutritional status assessment tools and techniques through practical experimentation in the lab.

Prerequisite: NTR211

NTR313L Nutrition Assessment lab (1 credit) The course familiarizes students with nutritional status assessment tools and techniques through practical experimentation in the lab.

Prerequisites: NTR211, NTR313 conc.

NTR318 Physiopathology (3 credits) The aim of this course is to teach students the pathogenesis of various symptoms & diseases affecting the human body. Altered physiological functions of human organs are explained and, then described on a molecular, cellular, organ & systemic level.

Prerequisite: BIO210

NTR322 Food Processing (3 credits) Principles of food spoilage, food preservation, and the different methods of food processing.

Prerequisites: BIO201, CHE201

NUTR331 Food Microbiology & Safety (3 credits) Examines the importance of microorganisms in food processing, spoilage and preservation; the role of microorganisms in fermentation and production of protein, enzymes and other products; food as a vehicle of infection and intoxication.

Prerequisite: NTR211

NTR331L Food Microbiology Lab (1 credit) The microbiology lab focuses on the techniques used in identifying micro-organisms and their applications to define a food contaminant.

Corequisite: NTR331

NTR340 Foundations in Food Service Systems (3 credits) The history of foodservice, types of operation, the systems approach, menu planning, development and implementation and related topics.

Corequisite: NTR211

NTR345 Human Nutrition (3 credits) Nutrient utilization and requirements of humans throughout the life cycle.

Prerequisites: NTR211

NTR408 Foods & Drugs Interaction (1 credit) This course covers common pharmacokinetic mechanisms underlying clinically important interactions between drugs, and patient and drug related factors that predispose a patient to adverse drug effects. It includes case-based discussion of approaches to identification, clinical evaluation, and clinical management of drug-food interaction risk.

Corequisite: NTR410

NTR410 Pharmacology (3 credits) This course introduces the student to principles that provide the foundation for the study of pharmacology and therapeutics. Students will be given a thorough introduction to pharmacologic terms, definitions and principles which are essential to understanding drug properties and actions.

Prerequisites: NTR211, BIO261

NTR411 Dietetics I (3 credits) Reviews basic skills needed by the dietician including nutritional care, ethics, roles and responsibilities in various employment settings. With the application of the principles of dietetics in a hospital setting, it focuses on the

techniques of collection and interpretation of dietary intake. Emphasis is placed on the team concept of patient care and strategies for promoting change in nutritional education.

Prerequisites: NTR441

NTR411L Dietetics I lab (1 credit) This course discusses practical integration of knowledge and skills required during Dietetics I course. It includes clinical assessment and nutritional monitoring techniques, analysis of interviewing and counseling situations, and application of quality assurance procedures.

Prerequisites: NTR441, NTR411

NTR422 Food Analysis (2 credits) Introduces the laboratory methods for chemical analysis of nutrients and chemicals in food products.

Prerequisite: NTR231

NTR441 Principles of Clinical Nutrition (3 credits) Introduction to the nutritional management of disease, medical terms, assessment, interviewing and counseling skills.

Prerequisite: NTR345

NTR441L Clinical Nutrition Lab (1 credit) Self-study modules, case studies, reports and discussions.

Prerequisite: NTR441

NTR452 Nutrition in the Life Cycle (3 credits) Covers the basic nutritional needs of people throughout their life cycle (infancy, childhood, adolescence, adulthood and old age) and the special nutritional requirements during pregnancy and lactation.

Prerequisite: NTR313

PHY101 Physics I (3 credits) Elements of vector calculus, position, velocity and acceleration. Motion in one and two dimensions. Dynamics of point particles, Newton's laws, gravitation, concept of force, freely falling objects, projectile motion, circular motion. Work, energy and power. Kinetic and potential energy. Conservation of total energy.

REM 308 Research Methodologies (3 cr.) This course provides students with practical skills in research design and execution. Students will learn how to formulate research questions, conduct literature reviews, and apply appropriate research methods to address real-world problems. The course covers both qualitative and quantitative approaches, emphasizing the importance of ethical research practices and effective data analysis. The course culminates in the submission of a research article or term paper, showcasing the student's ability to conduct independent research.

STA210 Statistics for Science (3 credits) Covers the fundamental principles of statistics as they apply to biological problems, including statistical inference, analysis of variance, and Correlation regression. A software package will be used.

STA211 Statistics for Business (3 credits) This course builds data literacy and decision-making abilities by having students learn statistical analysis methods. The course centers on gathering data and employing software tools to interpret findings and create visual representations. Students use their business insights to tackle marketing and finance issues as well as operational problems. The course is essential for civic-minded, analytically equipped business leaders.

Prerequisites: MAT100, MAT010, or placement

STA315 Probability and Statistics for Sciences (3 credits) Basic statistical techniques emphasizing engineering and science applications. Topics covered include graphical and numerical data summary techniques, population models, probability theory, probability distributions, mathematical expectation, sampling distributions, estimation, hypothesis testing, simple regression, statistical quality control.

Prerequisite: MAT203

WGS200 Water Resources Seminar (1 credit) Topics of interest, discussions about global water issues as well as career opportunities in the water sector. Invited speakers from governmental and non-governmental organizations will present lectures on major topics.

WGS201 Introduction to Water Resources (3 credits) This course is an introduction to surface and ground water resources and the environmental and socio-economic factors affecting water scarcity and water pollution. It serves as a basic introduction to hydrology, water quality, water policy and economics, water law, and integrated water resource management.

WGS210 Soil Science (4 credits) Introduces a general understanding of the types, chemistry, physics and evolution of soils. It also discusses the importance of soil as a resource and as an integral component in an array of fields from agriculture to engineering, water resources and geo-environmental implications etc.

WGS220 Applied Hydrology (3 credits) Hydrologic cycle; surface run- off; rainfall distribution in space and time; moving storms; rainfall-runoff relations; surface runoff system models; watershed management; evaporation, evapotranspiration, and infiltration; hydrology of arid watersheds.

WGS225 Environmental Microbiology (3 credits) Introductory microbiology and microbial processes of environmental significance. The course will include geo-microbiology, soil microbiology, food microbiology and water microbiology. It will also include case studies of food and water poisoning.

WGS250 General Oceanology (3 credits) Overview of the geology, chemistry, physics, and biology of the world's oceans. The course includes the formation and evolution of ocean basins, physical and chemical properties of oceans and their role in elemental cycles. Topics of current interest, such as climate change, NOA, and the introduction of new species, are woven throughout.

WGS322 Water Chemistry Techniques (3 credits) Treats the analytical methods that provide data on the chemistry of water and the usefulness of the data acquired.

Prerequisite: CHE201

WGS322L Water Chemistry Laboratory (2 credits) Laboratory Techniques for the qualitative and quantitative analysis of inorganic, organic, and microbiological constituents in water and waste water.

WGS345 Water Policy and Economics (3 credits) Application of basic microeconomic principles to water issues and the economic theories of risk and uncertainty to drought, flood control and water supply and demand. Emphasis on the role of economics in hydro politics in the Middle East.

Prerequisites: ENG201, WGS201

WGS365 Water and Wastewater engineering (3 credits) Planning, analysis, and design of wastewater management systems with emphasis on chemical, biological and physical treatments. The course also discusses waste water reuse and biosolids management.

Prerequisites: WGS322, WGS321

WGS390 Internship I (1 credit) Practical training in the private or public sector. Students must work 40 hours per 1 Credit hour (120 hours during a semester or summer session to earn 3 credits).