AMERICAN UNIVERSITY OF TECHNOLOGY

CATALOGUE

2024 - 2025

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

AMERICAN UNIVERSITY OF TECHNOLOGY

Catalogue 2024–2025

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

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

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

La Couline Road
Kasr Arida Street
Ras Maska, Dahr El Ain
Lebanon

Tel: 06-418503
71-102343

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

AUT's website is: www.aut.edu

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Faculty of Arts & Humanities

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Dr. Liza Bastadjian, Chairperson of English Programs
Mr. Mohamed Missilmani, Acting 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 Fatouch, Director of Intensive English Program

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 Program & Information Technology Program

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 Gerges, Dean 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

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

Academic Calendar
2024-2025

Fall 2024-2025 Semester		
September 2024	Monday 2 – Friday 6	1st payment period (required to activate student registration) for Fall 2024-2025
	Monday 9	Application of late payment for continuing students
	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 with penalty fee for continuing students
	Monday 30	Orientation for New Students In all campuses
October 2024	Tuesday 1 – Monday 7	2nd Payment Period
	Monday 7	Start First Assessment Task
	Tuesday 8	Application of Penalty for late 2nd Payments
	Thursday 31	Last day to remove Incomplete Grades for Spring & Summer 2023-2024
November 2024	Friday 1 – Thursday 7	3rd payment Period
	Friday 8	Application of Penalty for late 3rd Payments
	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	Monday 2 – Friday 6	4th payment Period
	Monday 9	Application of Penalty for late 4th Payments
	*Tuesday 24 --Wednesday Jan.1	Christmas & New Year (Holiday)
January 2025	Thursday 2 – Wednesday 8	5th payment Period
	*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" for Fall 2024- 2025
	Friday 10	Last Day for Change Major to Spring Term 2024-2025
	Friday 10	Application of Penalty for late 5th Payments
	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 – Friday 7	1st payment period (required to activate student registration) For Spring 2024-2025
	Monday 3 – Thursday 13	Advising & Course Registration for all Students for Spring 2024-2025
	*Monday 10	St. Maroun's Day (Holiday)
	Tuesday 11	Application of late payment fee for continuing students
	*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 with penalty fee for Spring 2024-2025
March 2025	Monday 3 – Monday 10	2nd payment Period
	Monday 3	Start First Assessment Task
	Tuesday 11	Application of penalty for late 2nd payments
	*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 – Wednesday 9	3rd Payment Period
	Thursday 3	Classes resume for Spring 2024-2025
	Thursday 10	Application of Penalty for late 3rd Payments
	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)
	Monday 4 – Friday 8	4th payment deadline
	Monday 11	Application of Penalty for late 4th Payments
	*Sunday 25 or Monday 26??	Liberation & Resistance Day (Holiday)
	Friday 29	Last day to withdraw from a class with a grade of "W" For Spring 2024-2025
June 2025	Monday 2– Friday 6	5th payment Period
	Friday 6	Last day of classes for Spring 2024-2025
	Tuesday 10	Projects Presentation
	Tuesday 10	Application of Penalty for late 5th Payments
	*Saturday 7 or Friday 6 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	Thursday 19 – Friday 20	First payment and Online Registration period for Summer
	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)
	Tuesday 8 – Friday 10	Second payment deadline for Summer
	Monday 14- Thursday 17	Midterm Exams period (Without Class Interruption)
	Friday 18	Last Day to Withdraw from a class with a grade of "W" for Summer 2024- 2025
	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
August 2025	Monday 4	Deadline for Submitting Grades for Summer 2024-2025
	*Friday 15	Assumption day of Mary (Holiday)

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COURSE ABBREVIATIONS

Arts and Humanities

ACT	-	Actualities (Translation)
ARA	-	Arabic
ART	-	Art
AVP	-	Audio Visual
COM	-	Communication
DES	-	Design
DRT	-	Translation Law
ENG	-	English
FLM	-	Film
GDP	-	Graphic Design
HIS	-	Social Sciences
HUM	-	Humanities
IDP	-	Interior Design
PED	-	Physical Education
PHL	-	Philosophy
POL	-	Political Science
PUR	-	Public Relations
PSY	-	Psychology
SOC	-	Sociology
TRA	-	Translation

Business

ACC	-	Accounting
BUS	-	Business
ECO	-	Economics
ENT	-	Entrepreneurship
FIN	-	Finance
HOM	-	Hospitality Management
MGT	-	Management
MIS	-	Management Information Systems
MKT	-	Marketing
TRM	-	Transport Management & Logistics

Applied Sciences

BIO	-	Biology
CHE	-	Chemistry
CSC	-	Computer Science & Information Technology
ENV	-	Environmental Health
GEO	-	Geo-Environmental Sciences
HLT	-	Health & Wellness
MAT	-	Mathematics
NTR	-	Nutrition
PHY	-	Physics
STA	-	Statistics
WGS	-	Water Resources

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.

The Teaching Philosophy

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 acontinuous 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.

Distinguishing 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.

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.

National Academic 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.
- **EBML** (the water authority for Beirut and Mount Lebanon) offers internship opportunities to AUT students in Water Resources Science and collaborates with AUT at various levels (joint conferences, awareness campaigns, exchange of expertise…).
- A similar agreement ties AUT to the **North Water Authority**
- **The Port of Tripoli** collaborates with AUT through an MOU which opens the way for internships not limited to students of Transport Management.
- **The Chamber of Commerce Industry and Agriculture of Tripoli** collaborates with AUT for the food science lab and start-up initiatives.
- **The Beirut Chamber of Commerce Industry and Agriculture works with AUT on several projects involving countries around the Mediterranean. Projects already completed include YEP MED, i-Heritage, Techlog, Internisa. More projects are undertaken each year with the CCIB**
- MOUs have been signed with the **Ministry of Energy and Water** and the **Ministry of Environment.**
- **An MOU with the IT company ITB allows internships for IT, MIS and Computer Science students**
- **The Beirut Bar Association:** A tripartite agreement between AUT, University of London and the Beirut Bar Association has made available the reputed LLM program available at the Beirut Bar Association under the academic direction of the prestigious UCL London and the management of AUT which has an office for the LLM program at the BBA.
- AUT is a teaching center for **BOECKER** in food safety

International Academic Partnerships

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

- **Erasmus University Rotterdam (The Centre for Maritime Economics and Logistics)**: A cooperation agreement ensures the teaching of specialist courses, by top faculty members, in the areas of shipping, transport and logistics, from MEL to AUT students majoring in Transport management and Logistics.
- **State University of New York- Empire State University**: An academic affiliation agreement allows students at AUT to complete and earn two bachelor degrees in all areas of Business.

- **University of London.** AUT is a Recognized Teaching Center for the LLM- Master of Laws program of University of London. It offers support to lawyers and students enrolled in the LLM program which is under the academic direction of the prestigious UCL and Queen Mary.

- **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.

- **University of Aberdeen (Scotland):** Collaboration on Petroleum Science, Oil and Gas Management at both undergraduate and graduate levels. Considered one of the best in Europe for oil and gas matters (engineering, science, business and law), the University of Aberdeen collaborates with AUT in workshops related to energy law and management.

- **Poornima University, Jaipur, Rajasthan, India:** A memorandum of understanding facilitates student and faculty exchange and collaboration in the field of Data Science and Computer Science and IT.

- **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.

- **Oklahoma University (OU):** An agreement on educational cooperation allows the exchange of students and faculty, joint research and publications. Students may decide to join OU for one semester or more and have their credits earned at OU integrated on their AUT transcripts.

- **Istituto Europeo di Design (IED), Milan, Italy**: Students can benefit from the possibility of exchange in all design programs including Fashion Design, in addition to Graphic, Interior, Product and Car Design. Exchange students get a reduced tuition fee and can also spend internship periods at Milan's top fashion and luxury products firms.

- **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.

- **University of Novi Sad, Serbia:** Exchange of students and faculty as well as joint research in arts is available. This University located in the second largest city in Serbia has established a distinguished reputation in design and architecture especially and has a total enrollment of over 45000 students.

- **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.

- **Arab Academy for Science, Technology and Maritime Transport in Alexandria, Egypt:** exchange of facultyand students in the area of Transport Management. Also offers a joint Master degree in Supply Chain and Logistics.

- **AIUTA:** The International Association of Universities for the Third Age has welcomed AUT to join a huge network of universities that cater to the educational and cultural needs of senior citizens.

Advisory Boards

In order 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, EMCO.

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.

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, particularlyin 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 outsidethe University.

- The History of the Maronite Patriarchs.

The University 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….

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

1. To maintain a quiet and peaceful environment quiet is required.
2. NO cellular phone use.
3. NO food or drink allowed.
4. NO smoking.
5. The newspapers should be put back into their proper order after reading.
6. All borrowed items, including course reserves, should be returned to the circulation desk for proper check-in.

In addition to the above mentioned points, 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.

On-Campus 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 (Power Campus) 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.

The 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 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 space 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.

AUT's 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 students Rana Bark won the International Poster Competition for the Montreal Protocol's 20th anniversary; 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 I 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, Mr. Rafi Tannous, Charbel Chouchany and Pamila Khadra participated in the CinemaDaMare 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 15 weeks each and six-weeks summer sessions.

AUT'S ACADEMIC STRUCTURE

The academic structure of the university consists of three faculties:

1. The Faculty of Arts and Humanities
2. The Faculty of Business Administration
3. The Faculty of Applied Sciences & Technology

A. 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
- Graphic Design with concentration in Web Design
- Interior Design
- English Language and Literature
- Translation & Communication

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

- Audio Visual Arts
- Journalism
- Public Relations

B. 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 a 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
- Finance
- Hospitality Management
- Management
- Management Information Systems
- Marketing and Advertising
- Transport Management and Logistics

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

1.	Accounting	39 credits
2.	Finance	39 credits
3.	Hospitality & Tourism Management	39 credits
4.	Management	39 credits
5.	Management Information Systems	39 credits
6.	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.

C. 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**
- **Computer & Communication Sciences**
- **Information Technology**
- **Nutrition and Dietetics**
- **Water Resources and Geo-Environmental Sciences.**

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

- **Computer Science**
- **Information Technology**

OFFICE OF ADMISSIONS

Admission to the AUT Undergraduate Programs

Students applying to the AUT undergraduate programs should hold the Lebanese Baccalaureate Part II or its equivalent as determined by the Lebanese Ministry of Education. Holders of the Lebanese Baccalaureate Part II are qualified for consideration for admission to the sophomore class.

Lebanese students, who hold a high school diploma, received either by studying abroad or in Lebanon by permission of the Lebanese Ministry of Education, may be considered for admission to the Freshman Class at AUT. To be admitted as a Freshman, a student must have (1) The Baccalaureate exemption from the Lebanese Ministry of Education and (2) The scores of the SAT exam. Note: To apply for equivalency of the Freshman class from the Ministry of Education a student must (1) have completed the 30-credit Freshman program and obtain a total score of 870 on SAT for Freshman Arts and 950 for Freshman Science.

Each student is assigned an ID number upon admission, which should be used in registration and other University activities. All applications for admission are considered on the basis of qualifications with no discrimination on the basis of race, color, gender, handicap, religion, age or national origin.

Documents to Submit with Applications

Students applying to the Freshman Program should submit the following documents:

- A completed application for admission.
- High School grades.
- Exemption from Arabic and authorization to join a foreign program approved by the Ministry ofEducation.
- Successful completion of Grade 12.
- An official copy of the High School diploma.
- SAT score report.
- One passport-size photos.
- Photocopy of ID or personal civil extract or valid passport.
- Photocopy of family civil extract.
- Application fee (non-refundable)

Applicants to the sophomore year (for Baccalaureate holders or equivalent as required by the Ministry of Education) are required to submit the following documents:

- A completed application for admission.
- A certified copy of the secondary school certificate (Lebanese baccalaureate or its equivalent).
- An official copy of the school grades for the last three secondary classes.
- A photocopy of the identity card or valid passport.
- One passport-size photos.
- An application fee (non-refundable)
- Family civil extract
- NSSF certificate if available

Admission of Transfer Students

AUT approves in principle the admission of transfer applicants. Transfer applicants have to satisfy the following conditions:

- That they are transferring from recognized institutions of higher education.
- That, before they were admitted to the institution from which they are transferring, they have met the requirements for admission to AUT.
- That they satisfy the English language proficiency requirement. Transfer applicants may be required to take placement tests in mathematics. Transfer applicants are required to submit an application for admission with the official transcripts of their high school and college/university records along with the catalogue of the institution from which they are transferring or a certified description of courses for which they seek transfer.

They will be placed in the appropriate level of English (and, if needed, mathematics) 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. All documents presented to complete an application for admission become the property of the American University of Technology and cannot be returned. Incomplete applications will not be processed for admission.

Secondary School Certificates

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, like Pakistan, award two levels of secondary school certificates. AUT recognizes the higher certificate.

Nature of Secondary School Certificates and the programs to which they gain admittance

Most secondary school programs are divided into a variety of branches, such as humanities, general sciences, social sciences and economics, life sciences, technical and vocational. Any academic secondary certificate admits to any major offered by AUT. Those holding a Baccalaureate Part II in Humanities, Social Sciences and Economics, and wishing to join a Department of Science, should take additional courses in science and mathematics in preparation for a scientific career. The department may refuse admission into science majors if it deems the applicant's level not sufficient.

Technical and Vocational Secondary School Certificates – BT3 & TS

These certificates admit to a major that corresponds to the nature of the technical or vocational secondary school program. For example, the holder of a technical secondary school certificate in business may apply to the Department of Business Administration. Applicants may refer to the official list issued yearly by the Ministry of Education specifying majors accessible from technical studies. The list is available at the Office of Admissions.
Applicants with a Technical Baccalaureate are required to take 6 to 12 credits in remedial courses in addition to the graduation requirements. The remedial course list is issued by the Ministry of Education in Lebanon and is available at the Office of Admissions.
Holders of the Technical Studies diploma 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.

Equivalence of BT and TS Technical Certificates

Technical Baccalaureate (BT):

- **University Enrollment**
    - Students holding a Technical Baccalaureate (BT) certificate can enroll in university specializations specified by the ministry.
    - Students must follow the pathways set by the ministry.

Technical License Students (TS):

- Students holding a Technical (TS) certificate and enrolling in university specializations must complete some supplementary courses specified by the ministry of Education and Higher Education.

Equivalence of Technical Certificate:

Students holding a Technical Certificate with an overall grade of at least 12/20 in official exams can have their certificates equated according to the university's equivalence system.
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.
Additionally, the student must complete at least 50% of the required hours and credits needed to obtain a university degree.

Procedures for Equating TS Courses:

1. Official Lebanese Certificate

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

2. 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.

Required Documents:

1- Official Lebanese Certificate

Endorsed by the Ministry of Education and Higher Education.

2- Academic Record from the Technical School

Transcript of grades.

3. Course Descriptions

If requested by the university.

Other Certificates Such as GCE, GCSE, IGCSE, IB

The Ministry of Education in Lebanon recognizes these certificates as equivalent to the official secondary certificate under the following conditions:

- That the school awarding these certificates is recognized by the Ministry of Education of Lebanon or by the country hosting the school.
- That the student has successfully completed the twelfth grade as of elementary Grade I.
- That the student has passed in six subjects: two at the higher level (two A levels or 4 AS levels) and four atthe ordinary or subsidiary (4 O levels). English Language and Mathematics should be included within the courses required for admission to the American University of Technology.

Dates for Submitting Applications

- **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 session the 15th of June is the deadline.

- **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.

Validity of Admission

Admission is valid for the whole academic year for which a student applies. If an applicant is admitted and for some reason 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 willhave to be submitted.

Placement Examinations

Applicants need to sit for placement examinations as follows:

- Faculty of Arts and Humanities: placement test in English; French placement test for translation major
- Faculty of Business Administration: placement tests in English and Mathematics are required, except for technical Baccalaureate applicants
- Faculty of Applied Sciences: placement tests in English and Mathematics for the Computer Science and Information Technology majors.

English Placement Examination

The English Placement Test (EPT) at AUT is taken by all new students. Moreover, all 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 don't fit into the English program at AUT to sit for the EPT.

Standardized tests are also accepted. Minimum scores of 72 on IBT, 550 on the English section of SAT and 6.0 on IELTS are required to exempt applicants from intensive English courses.

Mathematics for Business Placement Examination

The Mathematics Placement Test for business may be required from applicants to the Faculty of Business Administration and places students in one of the following courses:

- College Algebra (MAT 010) or
- Calculus for Business (MAT 221)

Mathematics for Science Placement Examination

The mathematics placement test for science is required from all applicants to the Faculty of Applied Sciences. It places students in:

- College Algebra (MAT 010)
- Calculus I (MAT 011)
- Calculus II (MAT 012),
- Calculus III (MAT 203)

Student Orientation

During the summer period, the Center for Student Success organizes 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. Such orientations 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 islisted in the Academic Calendar.

THE GRADUATE STUDY PROGRAM

Admission to the Graduate Program

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 less than 2.7 may be given admission on probation.

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

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 39 credit hours that is fully accredited by the Ministry of Higher Education.

- **Master of Science Programs**

The MS program:

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

Procedures for Applying to the Graduate Program

An applicant should submit the following documents:

1- Application for Admission
2- Personal Statement of Purpose
3- Two Letters of Recommendation
4- Updated CV
5- Official Transcripts
6- Recognized Degrees of Higher Education (equivalence from the Ministry of Education is needed)
7- Application Fee
8- One Passport Size Pictures
9- A Recent Family Civil Status Record
10- A Photocopy of the ID or Passport

Conditional Students

To satisfy particular 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.

All correspondence regarding undergraduate and graduate admission should be addressed to:

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
e-mail: admissions@aut.edu

North Campus

La Couline Road
Kasr Arida Street
Ras Maska, Dahr El Ain
Lebanon

Tel: 06-418503
71-102343

Office of the Registrar

Registration

Registration Procedures

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.

The following steps should be followed in registration for "new & current" students:

Students should:

- Show their "letter of acceptance" to the Business Office (new and transferring students only).
- All students should pass by the Business Office so as to pay their registration fees, in this case the Business Office issues a clearance to the student.
- The student pay the amount of the registration fees shown on the slip at the designated bank, and ask 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, after that the student can meet the academic advisor to check her/his courses for registration.
- **Note:** Due to the financial situation of the banking sector, students are advised to pay the registration fees at the business office.

Advisor's Consultation

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 his/her academic needs and interest and survey a plan for the future selection of courses.
Basically the 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. Advisors are available for individual consultation during office hours and by appointment.

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 during the late registration period (see Academic Calendar) but will be charged an extra fee.

Registration for Tutorial Courses

Tutorial courses, when approved by Academic Affairs, are offered to those students who for legitimate reasons were unable to take these courses when offered, who have earned at least 60 credits at AUT, and for those who will be graduating at the end of the semester.

ID Cards

Each new student must submit, with his/her 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 carried on campus at all times and be shown when necessary for identification and certain University transactions.

NSSF

Procedures at the HR office, student affairs and AUT username and password and handled by the respective representation of each of these offices.

Refund Policy

Consult the section on Tuition and Fees for details on the refund policy of the University.
Note that refund, where applicable, applies to tuition only and fees are not refunded for any reason.

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 the steps.

Categories of Students

A. 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.

B. 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.

Classification of Students

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

1-	Freshman (Student must credits be officially admitted in the Freshman program).	1-30
2-	Sophomore	31-60 credits
3-	Junior	61-90 credits
4-	Senior	91 credits and above

Names of Students

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.

Student Records/Statements

Generally, educational records of a student may not be released to other persons 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 portal.

Change of Addresses and Telephone Numbers

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 scaleof 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 fromall of his/her courses for the semester due to very special circumstances (e.g., personal medical situation, travel foran extended period of time, 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 forfeitto "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 miscalculation, 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, his/her 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

1. No student may pursue his or her education through correspondence or by merely passing examinations.
2. 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 his/her responsibility for the work done or for any announcements made during his/her absence.
3. If a student absents him/herself 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 showthat 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.

Re-admission 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 theend of the first semester of their re-admission, they fail to remove their probation they are dismissed from the Faculty. If dismissal was decided for disciplinary reasons, the consideration for his/her re-admission depends onthe 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, in order to warrant the proper handling and consideration of their case.

Procedure:

1. The student must report to the University's physician, Dr. Jean-Claude Honein, whose office is located in AG108, for consultation. After the physician's assessment of the student's case, the student might be issued a medical report.
2. 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'sphysician 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).
3. The physician's office sends a copy of the approved medical report to the Dean of the student's Faculty.
4. 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.
5. 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 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. Threeoccasions of tardiness count as one absence.

Drop and Add

Dropping and adding courses takes place during the add/drop period of a semester. After the end of this period nostudent 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 his/her semester grade report and on the transcript of record. Norefund 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:

1. The Form must be submitted before the last day of classes of the semester.
2. 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.

Student 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. Student is not allowed to return to his 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 ofthe 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 gradesthe 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 thestudent's last registration at the University. If the University decides that the penalties become part of the student'spermanent 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 the Dean's warning removed from the transcript.

Graduation Requirements

AUT 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 two semesters and a maximum of four.**

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 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 by the Business Office and the Library before they can obtain their diplomas from the Registrar’s Office. Also should fill the Alumni Association Form plus 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, in order 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 fil 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 the Exit Survey by entering on the link below:

https://forms.gle/wxKVumcFqenozStG6.

Named: AUT GRADUATE EXIT SURVEY FOR CLASSES OF 2021-2026

Honors Designation for Undergraduate Students

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

I- Dean's Honor List:

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

1- Be a regular full time student.

2- Have a semester GPA of at least 3.5/4.0

3- Have no failing or incomplete grades.

- This Designation is determined at the end of each semester (excluding summer).
- Lists (one per Faculty) are announced at the start of the following semester.
- The student must be enrolled in 12 or more credits.
- The student has no probations of any type.
- The student's semester GPA $\geqslant$ 3.50.
- Have no disciplinary action against him/her.

II- 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 $\leqslant 4.0$

Commencement Exercises Participation

Graduates are expected and urged to attend the graduation ceremony whenever it is organized by the University.

Holidays

The University observes all major holidays. For a detailed schedule of the 2024-2025 Academic Year holidays.

Please consult the Academic Calendar section in this catalogue.

THE GRADUATE STUDY 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 Dean 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 inconsistent with ethical and professional standards is also grounds 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 a 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 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 beginning of classes: 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.

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 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, Banking & Finance, Entrepreneurship, Hospitality and Tourism Management, Human Resources Management, Management, Management Information Systems, Marketing and School Administration.

- **Master of Science Programs**

The MS program:

Master of Science in Computer Science & Information Technology 39 Credit hours that is fully accredited by the Ministry of 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 in order to enhance the potential and competence of graduates searching for better study and career opportunities.

TUITION AND FEES for the Year 2024-2025

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 the steps.

Tuition and other fees are payable at the beginning of each semester. However, a deferred payment plan can be arranged with the Business Office for students desiring to do so.

New students are expected to complete the University admission application form and pay a non-refundable fee of 50 USD

Tuition Fees to all students

$ 220 per undergraduate credit

$ 315 per graduate credit

$ 400 Registration fee per semester

$ 250 student activities, yearbook, technology fee, Internet and library access per semester

National Security Fund (NSSF)

Lebanese students are required by law to enroll in the NSSF – Medical Branch. Those students who do not benefit through a parent will be charged a fee of LL 5,400,000 annually for this coverage or 60 $.

I- Undergraduate Tuition and Fees:

Tuition Fees:

- The credit hour: US $220 per credit.
- Financial aid applies.

General Fees:

- Registration and Insurance fees: $400 at market rate per semester.
- Technology fee: $250 at market rate per semester.
- NSSF Fee: LBP 5,400,000 per year.
- Late registration fee: US $20.

Application & Admission fees:

- For residents in Lebanon: US $50 including all placement exams

Students residing in Lebanon must apply and pay in person on campus.

II- Graduate Tuition and Fees:

Tuition Fees:

- MBA credit hour: US $315 per credit.
- MS Program credit hour: same as for MBA.
- Teaching Diploma credit hour: same as for MBA.

General Fees:

- Registration and Insurance fees: $400 at market rate per semester.
- Technology fee: $250 at market rate per semester.
- NSSF Fee: LBP 5,400,000 per year.
- Late registration fee: US $20.
  Students residing in Lebanon must apply and pay in person on campus.

Application & Admission fees:

- Graduate application fee: US $50.

Other Fees for All Students:

- Change of major (same faculty): US $20
- Change of major (to other-faculty): US $ 25.
- Petition: US $10
- Transcript: US $20.
- Diploma Duplicate: US $100
- Certificate/Attestation: US $10.
- Final exam make-up per course, to Study the case one by one (if approved): US $100
- Graduation fees (paid once upon graduation): US $ 300.
- Diploma shipping by courier: US $50
- Deposit for cap & gown (US $75 refund upon return): US $100
- Add Envelop & Stamp to any Document: US $ 5.
- Late payment: 10% from the remaining Balance.
- Reactivation file student left between 2 years: US $ 100.
- Readmission student left more than 2 years: US $ 400.
- Alumni ID card: US $ 10.

Office of Students Affairs

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 by-laws 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 in students an awareness 3of 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, concerns related to selection of majors as well as general academic, educational and career planning advice. Professional confidentiality is strictly maintained in all areas of student counseling.

1. **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.

2. **Programs**
   Career guidance programs are planned on the basis of 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.

Adjudication of Academic and Conduct Offences

Jurisdiction

Academic cases resulting from alleged violations of the University rules are within the jurisdiction of the Dean of the college concerned.

The Adjudication Process between the student and the instructor or other issue.

Offenses may be due to academic or conduct reasons. If the nature of the offense is academic, then it is the responsibility of the Faculty concerned to attend to it. In this case one of two procedures may be followed. The first grants authority to the faculty member concerned to handle the case; the second is through the Dean of the Faculty.
If the faculty member is convinced that the alleged offense is a result of an error of judgment on the part of the student or from the instructor, the faculty member may instruct the student to be careful and study his/her case more patiently and calmly. If the faculty member is not convinced, he will refer the case to the Dean of the Faculty and inform the student of the referral.
The Dean will call the student and ask him/her to present documents in support of his/her case, assigns a faculty disciplinary committee and refers the matter to the committee. The committee will have to follow due process, call the student to a meeting for discuss his case and give the student the opportunity to defend himself. The student has the right to ask a faculty member to help him defend his case. The committee discusses the case with the student in the presence of his supporting faculty member.
If the committee decision meets the approval of the student the matter is closed. Otherwise, the student may appeal to the University Council. The University Council follows due process in terms of hearing the accused and plaintiff, and its decision is final.
If the offense is a result of misbehavior on the part of the student, the case is referred to the Dean of Student Affairs. Again due process is followed. If the decision of the Dean of Students Affairs is not to the satisfaction of the student, the student may appeal to the University Council who follows due process. The Council decision is final.

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 the academic experience.
- Providing direction 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.

The 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 skill 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.

The 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.

Financial Aid Office

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 the 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 parent 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.

Financial Aid Eligibility

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.
In general, a student, to be eligible for financial aid at AUT, must meet all of 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 him or her.
- 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 his/her financial aid.

The student abides by the rules and procedures as set by the Financial Aid Committee and as 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, he/she may appeal to the University Council.

Work-Study Rules and Procedure

The work-study is another form of financial aid. The student must meet the conditions of the Financial Aid Eligibility. In order to benefit from the Work-Study Program, the Financial Aid Committee decides on a 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, in order to close the balance of the students' working hours).

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 Banner 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.

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 evets 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.

ACADEMIC PROGRAMS

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.

Official Freshman Program

The student should provide the admissions office with the 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.

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 it will be offered during the year:

English course: ENG 103

Languages courses can be taken as elective course: CHI 101, ITA 101, SPA 100, 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).

Note: 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.

Remarks: 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.

Mrs. Huda Nakad (AUT Registrar) – Advisor of Freshman Students

Descriptions of all of these courses are presented under the relevant course outlines of each Faculty.

COURSE DESCRIPTIONS - FRESHMAN PROGRAM

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 coursethey should be able to fluently communicate in English, both orally and in writing. **Prereq.: 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 theend 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 aboutthe growing importance of human rights and their impact in the world today. Students examine a variety of issuesrelated to human rights and broader contemporary trends related to human rights and business. The course helpsstudents 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 inwhich 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 the 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. **Prereq.: 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. **Prereq.: 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. **Prereq.: 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 aspectsof geology; application of geological science.

PHY101 General Physics I (3 credits) Elements of vector calculus, position, velocity and acceleration. Motion in oneand 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. **Prereq.: 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 commonly 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.**

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

- **Language & Communication:** English Language ENG (200,201,208) 9crs & 1 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.**

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
ENG	208	Term Paper	3	ENG 201/ENG 280/ ENG 203
BUS	210	Business Communication & Present. Skills	3	ENG 208
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	

COURSE DESCRIPTIONS – GENERAL EDUCATION

ART205 Contemporary Arts I (3 credits) This course consists of a comprehensive overview of Euro-American radicalart 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, usingtechnical 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. **Prereq.: 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.

ENG 208 Term Paper (3 credits) The purpose of this course is to provide students with academic research writing skills. In the process, the students discuss their topics with their supervisors, search for the literature and source of information, do citation and learn how to avoid plagiarism. Then, they conduct an empirical research implementing the research methods and instruments they've learnt. At the end of the course, the students perform an oral presentation and defend their paper.

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 andperiods 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, 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 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 and alert about the latest trends and development in the city. Through guest speakers, they willlearn on how to improve their presentations and their language

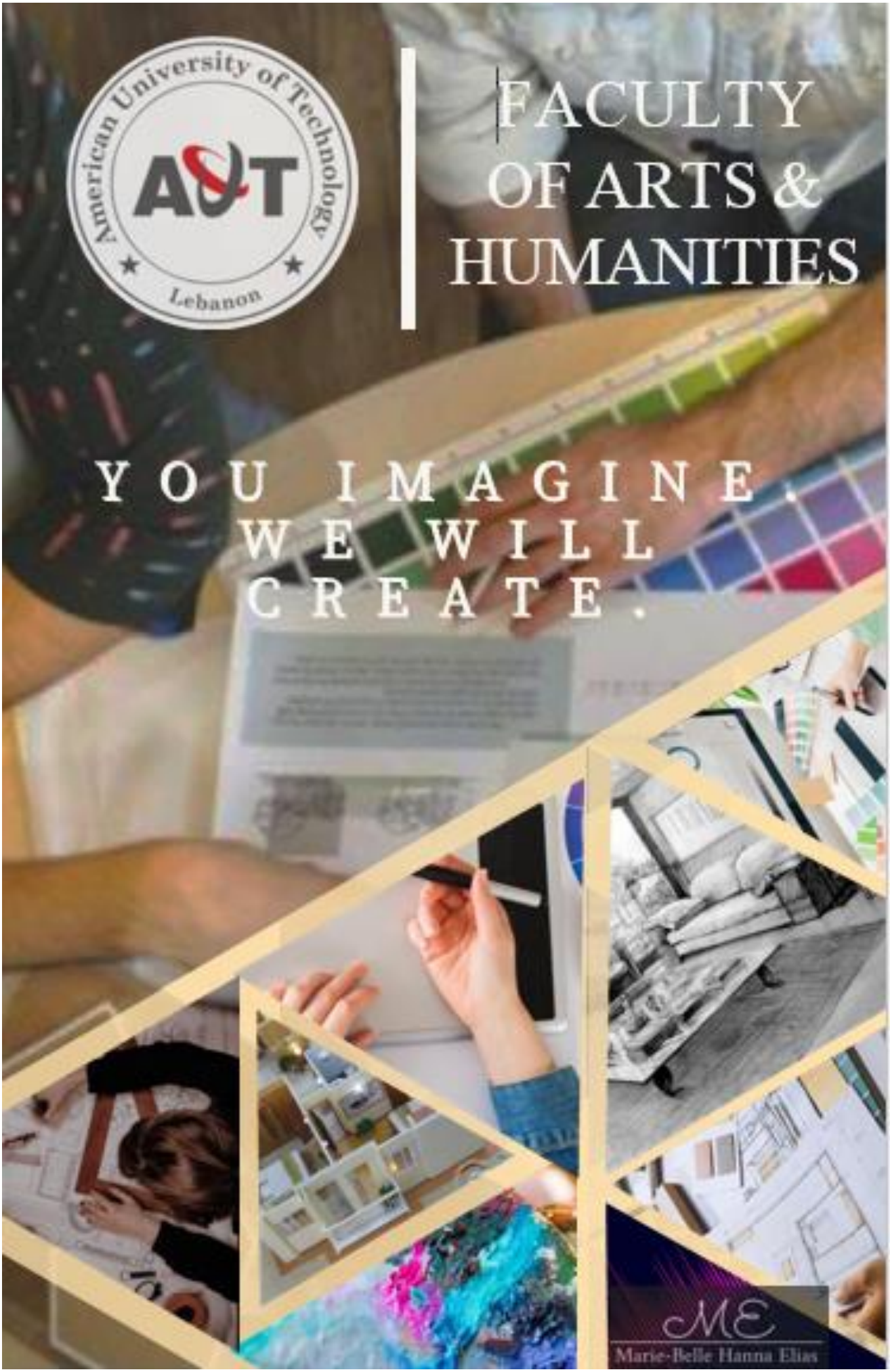
HUM318 Human Rights (3 credits) This course is designed to provide students with the opportunity to learn aboutthe growing importance of human rights and their impact in the world today. Students examine a variety of issuesrelated to human rights and broader contemporary trends related to human rights and business. The course helpsstudents 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 inwhich business and human rights intersect. **Prereq.: 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. **Prereq.: 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 tolearn 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. **Prereq.: 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. **Prereq.: 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 ʾknowledge, 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:

1.	Graphic Design	102 credits
2.	Graphic Design with concentration in Web Design	102 credits
3.	Interior Design	105 credits
4.	English Language and Literature	**96 credits**
5.	Translation & Communication	102 credits
6.	Audiovisual Arts	110 credits
7.	Journalism	101 credits
8.	Public Relations	99 credits

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, 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	ENG208
		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
	ENG 208	Term Paper	3	
		Total	**14**	

BA 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 must be 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	ENG 200/ENG 260
	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	ENG208	Term Paper	3	ENG 201 /ENG 280/ENG 203
	HUM318	Human Rights	3	ENG 200
		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	ENG208
	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 ARTS

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 written and visual communication competence. 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	209	Principles of Video Editing	3	AVP200
AVP	225	Principles of Storytelling	3	ENG200
COM	206	Principles of Photography	3	
COM	207	Performance for TV & Film	3	
COM	365	Media Law & Ethics	3	ENG201
Major Course Requirements			**51 credits**	Grade must be C or higher in every Major Course
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
ARA	201	Arabic Communication Skills I	3	
AVP	204	Audio and Video Workshop	3	
COM	251	Communication Media & Society	3	
COM	311	Media and Politics	3	ENG201
COM	315	Journalism and Social Media	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	
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	330	Investigative and Field-based Journalism	3	ENG201
JRN	340	Data Journalism	3	ENG201
HIS	200	History of Modern Lebanon	3	
POL	202	Globalization & Political Change	3	ENG200
Elective (200 level or above from COM, AVP, JRN or FLM)			**3 credits**	
Required Language Elective (any language not ENG or ARA)			**3 credits**	

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	AVP225	Principles of Storytelling	3	ENG200
	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	ENG 208
		General Education Requirement	1	
		Total	**4**	

Second Year

Semester	Course #	Title	Credits	Prerequisites
Fall	AVP209	Principles of Video Editing	3	AVP200
	ARA201	Arabic Communication Skills I	3	
	POL202	Globalization & Political Change	3	ENG200
	COM315	Journalism and Social Media	3	
	ENG 208	Term Paper	3	ENG 201
		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
	JRN330	Investigative and Field-based Journalism	3	ENG201
	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.

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**	

Proposed Sequence of Study
Bachelor of Communication in Public Relations
(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	ENG 208	Term Paper	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.

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	301	Audio Visual Workshop II	3	AVP211, AVP209
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 must be C or higher in every Major Course**
Code	**Course #**	**Title**	**Cr**	**Prerequisites**
FLM	203	Film History I	3	
FLM	205	Principles of Cinematography	3	
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

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	
	Art 205	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	ENG208	Term Paper Writing	3	ENG 201
	FLM304	Scriptwriting for Film	3	
	FLM205	Principles of Cinematography	3	
	AVP301	Audio visual workshop II	3	AVP205, AVP209, AVP211
	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/ENG 201
ENG	207	Morphology and Syntax	3	ENG280/ENG 201
ENG	220	Phonetics	3	ENG 225
ENG	225	Modern English Grammar	3	ENG280/ENG 201
ENG	230	Applied Linguistics	3	ENG 225
ENG	294	Introduction to teaching	3	ENG280/ENG 201
ENG	215	Semantics	3	ENG280/ENG 201
ENG	316	Creative Writing	3	ENG 280/ENG 201
ENG	322	Teaching of 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	332	Internship	1	ENG 202
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
D. **Two Courses Free Elective (200 level or above)**			**6**	

Required Total Credits to BA in English Language & Literature 96

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

	Course Code/No	Course Title	Credits	(Pre- or Co-Req)
	FIRST YEAR			
FALL	**ENG 200**	English Writing Skills II **(GER)**	3	ENG 020/022
	ENG 202	Introduction to literary Genres	3	ENG 200/ENG 260
	ENG 230	Applied Linguistics	3	
	SCIENCE COURSE	Course **(GER)**	3	
		TOTAL	**12**	
SPRING	**ENG 201**	English Rhetoric **(GER)**	3	ENG 200/ENG 260
	ART 205 or (GER) Course	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	
	ENT 301 or BUS 201	Startup Entrepreneurship Or Bus Pres Skills **(GER)**	3	
		TOTAL	**4**	
	SECOND YEAR			
FALL	ENG215	SEMANTICS	3	ENG200/ENG 260
	ENG208	Term Paper	3	ENG 201 /ENG 280
	ENG316	Creative Writing	3	ENG200/ENG 260
	HUM212/BUS 215	AUT Cultural Plus	1	ENG200/ENG 260
	ENG225	Modern English Grammar	3	ENG200/ENG 260
		TOTAL	**13**	
SPRING	ENG294	Introduction to teaching	3	ENG200/ENG 260
	ENG322	Teaching of EL as a foreign language	3	ENG 294
	HUM318	Human Rights **(GER)**	3	
	ENG330	Literary Criticism	3	ENG 202
	ENG324	Planning-Evaluation-Class Management	3	ENG 294
		TOTAL	**15**	
SUMMER	**BUS 210**	Business Communication **(GER)**	3	ENG 208
	ELECTIVE COURSE		3	
		TOTAL	**6**	

	THIRD YEAR			
FALL	ENG331	Curriculum and instruction in English Education	3	ENG 294
	ENG332	Internship	1	ENG 202
	ENG334	English Language Teaching Methodology	3	ENG 294
	ENG400	British Romantic and Victorian lit.	3	ENG 202
	ENG405	19th Century English Novel	3	ENG 202
	ENG410	Modern Drama	3	ENG 202
		TOTAL	**16**	
SPRING	ENG440	American 20th Century Lit.	3	ENG 202
	ENG445	Feminist lit.	3	ENG 225
	ENG450	Early 20th Century Poetry	3	ENG 294
	ENG455	The Age of Modernism	3	ENG 202
	ENG460	Post-Colonial Anglophone Literatures	3	ENG 202
		TOTAL	**15**	
		Total Crs.to BA in English Language & Literature	**96**	

Bachelor of Arts in Translation & Communication
(Total 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	331	Expression Techniques in Arabic	3	
TRA	332	Expression Techniques in French	3	
TRA	410	English Morphology and Syntax	3	ENG201
TRA	412	General Translation IV B-C/C-B	3	
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	ENG 208	Term Paper	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
	TRA412	General Translation IV B-C/C-B	3	
	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 scientifictexts 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 agiven 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. **Prereq.: 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 designfrom 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. **Prereq.: 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. **Prereq.: 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 ournoticing, and how they can reflect and even shape cultural values". **Coreq.: ENG200**

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 toneof a film, and their effect on the viewer. Moreover, they will learn to recognize and analyze the role of each production department. **Coreq.: 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 editan audiovisual sequence, following a correct editing plan while taking into consideration the aesthetical and rhythmic aspects of the sequence. **Prereq.: 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 behindvarious types of digital audio tools. Through lectures and in-class projects, students develop knowledge and skills needed to operate non-linear audio workstations. **Prereq.: 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 toolsand processes, field and post synchronization, sampling sounds and environments, microphone placement, wirelessmicrophones, 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 howthe enduring appeal and success of these literary forms can be adapted to the three-act structure of contemporaryscreenplays. **Prereq.: 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 covera 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. **Prereq.: 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 facultyavailability. This class may be repeated if topics differ. **Prereq: Senior Standing or Consent of Instructor.**

AVP303 Sound Design (3 credits) Sound Design is the most critical part of audio post production. 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. **Prereq.: AVP209**

AVP307 Photography II (3 credits) In this course the students will further their understanding of the photographictechniques. They will learn how to manually develop, print and retouch silver photographs, as well as being introduced to the proper use of digital retouching software's. **Prereq.: COM206**

AVP320 Directing Actors (3 credits) This course aims at introducing students to both the theory and the practice ofdirecting actors for film. The students will have to put into application different approaches to acting as illustratedby the works of great masters of cinema. **Prereq.: 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 possibilitiesof 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 andregulations in order to successfully produce content that can legally be distributed. **Coreq.: 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 oftheir final film project, along with a portfolio that contains development and preproduction elements of this film. **Prereq.: 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. **Prereq.: 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 individualexperience and everyday interaction. By culture, we mean the entire set of socially transmitted beliefs, values, andpractices 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 photographicart (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.

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 massmedia 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 withthe reach, breadth and influence of the mass media. In this course, we will examine the most important mass mediaeffects researchers have found influencing the political processes of society. **Prereq.: 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. **Prereq.: 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. **Prereq.: ENG200**

COM353 Photojournalism (3 credits) Gathering and processing pictorial material for the print media and television. Practical experience through laboratory and fixed exercises. **Prereq.: 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. **Prereq.: ENG201**

COM405 Newspaper Editing and Layout (3 credits) This course should teach students the skills needed to be a copyeditor—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 dayand 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. **Prereq.: ENG200**

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

ENG 208 Term Paper (3 credits) The purpose of this course is to provide students with academic research writing skills. In the process, the students discuss their topics with their supervisors, search for the literature and source of information, do citation and learn how to avoid plagiarism. Then, they conduct an empirical research implementing the research methods and instruments they've learnt. At the end of the course, the students perform an oral presentation and defend their paper.

ENG215 Semantics (3 credits) This course is an introduction to the linguistic study of meaning and meaning relationsknown as semantics. The course begins with an overview of historical semantics, the scope of semantics, semanticsin 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 withsemantics 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. **Prereq.: 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. **Prereq.: 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. **Prereq.: ENG207**

ENG240 Drama and the Stage (3 credits) The course offers both a historical and literary history of the developmentof 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, stagedirectives, 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 willbe 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 theEnglish language from Old English to the present. It seeks to acquaint students with the phonological andgrammatical changes that have taken place in the language in the course of its development as well as, briefly, withthe political and social factors which have affected the language, particularly its lexicon. The course also involves aclose 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 Platoto 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. **Prereq.: 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. **Coreq.: ENG240**

ENG355 Elizabethan and Jacobean Drama (3 credits) Contrary to our popular perceptions, Shakespeare neither lednor 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 Englandfrom 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 willinclude 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 and1816

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 ofthe 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 scrutinizedin 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. **Prereq.: ENG240**

ENG420 British Romantic Poetry (3 credits) This course surveys the poetry of the English Romantics. Spanning theyears 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 emergingfigures who wrote for the diverse readerships of Romantic England. While emphasis will be placed on close textualreading, historical, and intellectual background will also be considered where relevant. An important concern in thiscourse 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 worksand 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. Writersinclude 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 AfricanAmerican poets and English poetry of the 1930's. **Prereq.: 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. **Prereq.: 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. **Coreq.: ENG200**

FLM205 Principles of Cinematography (3 credits) This is an introductory course to the basic. Through a theoreticalapproach (history of cinematographic techniques, image analysis, visual aesthetics) [there is no 'practical' aspect tothis course]. **Prereq.: COM206 Coreq.: ENG200**

FLM207 Film History II (3 credits) This course is designed to provide the students with constructed critical thinkingabout 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. **Prereq.: 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. **Prereq.: 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. Thecourse will help students think about their own visual preferences and the sort of 'style' they might begin to developin 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. **Prereq.: 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 onprescriptive 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 makethem 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. **Coreq.: 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. **Prereq.: 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. **Prereq.: AVP225**

GDP200 Typography and Calligraphy (3 credits) This studio course will introduce the elements, concepts, principlesand techniques of typography and calligraphy and their development into creative art forms to symbolize a specificmeaning of visual communication. Students will study calligraphy and typography within various languages. **Prereq.: ART201**

GDP211 Graphic Design I (3 credits) This course introduces students to the visual elements, principles and problemsolving methodologies, as well as techniques of graphic design. It is an overview of the current profession. Emphasisis placed on concept development, process and the creation of designs for the current market. **Coreq.: GDP200, Prereq.: ART201**

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 graphicdesign, 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. **Prereq.: 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. **Prereq.: 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 worldand 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. **Prereq.: 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. **Coreq.: 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 tothis interactive screen-based media. **Prereq.: 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 courseincludes field trips and lectures. **Prereq.: GDP211**

GDP490 Senior Project I (4 credits) Students are assigned a project in which they must complete a variety of designpieces, applying all they have learned, as a cohesive unit. Emphasis will be placed upon each student's individual design vision, final presentation and professionalism. **Prereq.: GDP225**

GDP491 Senior Project II (4 credits) On this course student define their own project and complete a collection ofwork 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. **Prereq.: 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 andmake them aware and alert about the latest trends and development in the city. Through guest speakers, they willlearn 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 helpsstudents 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. **Prereq.: 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. **Prereq.: IDP215 DES215 Coreq.: IDP291**

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. **Coreq.: 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. **Prereq.: IDP290**

IDP310 History of Architecture & Furniture I (3 credits) This course describes movements, events and people thathave 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 product, 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. **Prereq.: 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. **Prereq.: 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. **Prereq.: 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. **Prereq.: 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. **Prereq.: IDP320**

IDP345 Virtual Reality / 3D Max (3 credits) This course will introduce students to the creation of computer rendered3D 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. **Prereq.: 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. **Prereq.: IDP291**

IDP391 Design Project IV (4 credits) This course, students develop their design and manufacturing skills. The courseexplores the conceptual, aesthetic and structural studies in the field of flexible design. Students will reinforce theirskills in the execution process. **Prereq.: IDP390**

IDP410 Digital Presentation (3 credits) This course introduces basic digital tools for industrial design presentation and reinforces students drawing and communication skills. **Prereq.: 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. **Prereq.: IDP391**

IDP445 Advanced Virtual Reality (3 credits) This course is designed for different animation presentations. Studentsimprove their technical skills by mastering a variety of professional software. **Prereq.: 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. **Prereq.: IDP391**

IDP491 Senior Project II (4 credits) The senior project should maintain an active link with the professional world ofdesign 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 anddesign planning to design shop drawing development. **Prereq.: 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. **Prereq.: 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 tofind worthwhile stories. **Prereq.: ENG201**

MAT261 Visual Math for Arts (3 credits) This course covers basic geometry vocabulary versus free-form shapes byexploring 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 modelsare represented.

POL202 Global and Political Change (3 credits) This course introduces the phenomena of globalization. It examinesits historic roots and the different views associated with its universal impacts. It examines how globalization helpingthe integration of world culture, economies, and states. **Prereq.: 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**. Prereq.: 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. **Prereq.: 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. **Prereq.: 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.) **Prereq.: 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. **Prereq.: 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. **Prereq.: 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. **Prereq.: 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. **Prereq.: 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. Othertopics will be examined to determine the role of the law, politics, and society in the development of the policies governing those issues. **Prereq.: ENG200**

TRA201 Arabic for Translators (3 credits) This course is designed to strengthen students' proficiency in academic Arabic to make them professional translators.

TRA202 French for Translators (3 credits) This course is designed to strengthen students' proficiency in academic French to make them professional translators.

TRA203 English for Translators (3 credits) This course is designed to strengthen students' proficiency in academic English to make them professional translators.

TRA211 General Translation I (3 credits) Exercises in the translation of articles from business and governmentpublications and similar sources. **Prereq.: TRA201 and 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) Exercises in the translation of moderately difficult but not highlyspecialized scientific and technological texts from Arabic to French and French to Arabic. Relevant basic scientific concepts. **Prereq.: TRA211**

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

TRA331 Expression Techniques in Arabic (3 credits) This course deals with common mistakes in Arabic, brushes upon oral and written expressions, and revises linguistic structures.

TRA332 Expression Techniques in French (3 credits) This course deals with common mistakes in French, brushesup on oral and written expressions, and revises linguistic structures.

TRA410 English Morphology and Syntax (3 credits) This course deals with word formation and the attempts to formulate a theory of word structure, as well as the analysis of phrase and sentence structure in English. **Prereq.: ENG201**

TRA412 General Translation IV B-C/C-B (3 credits) This course trains students in translating different types ofFrench and English texts.

TRA413 Advanced Translation A-B/B-A (3 credits) Study and analysis of translated works. Translation into Arabicof a work that was not translated before. **Prereq.: TRA311**

TRA415 Advanced Translation A-C/C-A (3 credits). Study and analysis of translated works. Translation into Arabic of a work that was not translated before. **Prereq.: TRA312**

TRA430 Traduction Juridique A-B/B-A (3 credits) This course trains students in translating French and Arabic texts which cover diverse areas of law. **Prereq.: DRT310 & DRT311**

TRA450 Translation of Business Texts (3 credits) This course aims to train students in translating English and Arabictexts which cover diverse areas of business. **Prereq.: BUS305**

TRA460 Computer Assisted Translation (3 credits) Computer aids for human translation (advanced word processing, desk-top publishing, terminology management, etc.). An introduction to machine and machine-assistedtranslation. **Prereq.: CSC200 or CSC201**

TRA466 Conference Translation A, B, C (3 credits) An advanced course with terminology and emphasis on U.N. agencies, education, and technology related to Middle East development.

TRA470 Medical Translation (3 credits) This course teaches students medical terminology which would allow the translator to correctly translate medical texts. **Prereq.: HLT201 & NTR201**

TRA474 Practicum (4 credits) A supervised practicum designed to allow students to put their knowledge of translation and terminology principles to work in an actual translation service. Students will be required to submit a written report**.**

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. **Coreq.: 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. **Prereq.: 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, workwith libraries, buttons, actions, and animation, as well as work with masks, sounds, and scenes. With flash web interactive pages can be made. **Prereq.: 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 howto 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. **Prereq.: 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. **Prereq.: 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. **Coreq.: WED201**

WED402 Senior II (4 credits) In this course students will define their own website project and complete a collectionof 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. **Prereq.: WED401**

Faculty of Business Administration

Mission Statement

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:

1.	Accounting	99 credits
2.	Finance	99 credits
3.	Hospitality Management	99 credits
4.	Management	99 credits
5.	Management Information Systems	99 credits
6.	Marketing and Advertising	99 credits
7.	Transport Management and Logistics	99 credits

BBA 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 a 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:

1. Governmental Accounting: accountants who work for the government.
2. Management Accounting: Management accountants generate and analyze accounting data that is tailored to the diverse requirements of management.
3. Public Accounting: Certified public accountants are mainly responsible for auditing financial statements, doing income tax work, and providing management advisory services.
4. 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**	

BBA in Accounting Proposed Sequence of Study
(99 Credits)

First Year

Semester			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		Title	Credits	Prerequisites
Fall	ENG208	Term Papers	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		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 (AUT)
(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**	**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	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	Cr	
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**	

BBA in Finance Proposed Sequence of Study
(99 Credits)

First Year

Semester		Title	Credits	Prerequisites
Fall	ENG200	Writing Skills	3	ENG020
	ACC210	Principles of Accounting I	3	ENG020
	MGT 201	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
	MKT 201	Marketing Principles	3	ENG200 may be taken concurrently
	STA211	Business Statistics	3	ENG020
	Elec 2*	Free Elective	3	
		Total	**15**	

Second Year

Semester		Title	Credits	Prerequisites
Fall	ENG208	Term Papers	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		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		**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**	

BBA in Hospitality Management
(99 Credits)

The Hospitality Management Program provides students with the 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, in order 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 in Hospitality Management

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	Beverage Management	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**	

BBA in Hospitality Management
Proposed Sequence of Study
(99 Credits)

First Year

Semester		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		Title	Credits	Prerequisites
Fall	ENG208	Term Papers	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	Beverage Management	3	HOM201
	HOM220	Food Services Production& operation	3	HOM201
		Total	**18**	

Third Year

Semester		Title	Credits	Prerequisites
Fall	ENT301	Start-up Business Entrepreneurship	3	ENG280 or ENG201
	HRM320	Human Resources Management	3	MGT201
	HOM321	Food, Beverage and Labour Cost Control	3	HOM325
	HOM322	Front Office Information System	3	HOM201
	MIS360	Management Information System	3	MGT201
	BUS491	Internship	1	Senior Standing
		Total	**16**	
	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		**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 (AUT)
(99 credits)

The program emphasizes analytical thinking for effective decision making and broad preparation for leadership positions.

Bachelor of Science in Management (LSE) (102 credits)

This is a unique opportunity for students to study the curriculum of the London School of Economics and Political Science and gain two degrees, one 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 Management 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 concurrently
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	
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**	

BBA in Management
Proposed Sequence of Studies
(99 Credits)

First Year

Semester		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		Title	Credits	Prerequisites
Fall	ENG208	Term Papers	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		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		**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**	

BBA 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 a theoretical and practical preparation for a variety of responsible managerial and specialist positions.

Careers in Management Information System

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**	

BBA in Management Information Systems
Proposed Sequence of Study
(99 Credits)

First Year

Semester		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		Title	Credits	Prerequisites
Fall	ENG 208	Term Papers	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
	FIN 221	Managerial Finance	3	ACC215
	MIS 221	Networking & Information Infrastructure	3	MIS202
		Total	**18**	
Spring	HUM 318	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		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**	

BBA in Marketing and Advertising
(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 a theoretical and practical preparation for different positions in marketing and advertising.

Careers in Marketing and Advertising. 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
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	

BBA in Marketing and Advertising
Proposed Sequence of Study
(99 Credits)

First Year

Semester		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		Title	Credits	Prerequisites
Fall	ENG208	Term Papers	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	HUM 318	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		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		**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**	

BBA 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 in Transport Management and Logistic
Possible careers a graduate can pursue with a degree in transportation and logistics:
Analysist, Logistic engineer, Customer service, Logistics manager, 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	Micro Economics	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**	

BBA in Transport Management and Logistics
Proposed Sequence of Studies
(99 Credits)

First Year

Semester		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	Int. To Transport Economics & Policy	3	ENG201 may be taken concurrently
		Total	**15**	

Second Year

Semester		Title	Credits	Prerequisites
Fall	ENG 208	Term Papers	3	ENG201
	BUS230	Business Law	3	Will be delivered also in Preparatory 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
	TRM 211	Element of Maritime Law	3	TRM201
		Total	**18**	

Third Year

Semester		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**	
		Foreign Language	3	
	TRM421	Maritime Logistics	3	TRM321
	TRM410	Logistics and Supply Chain Management	3	TRM201
	PED201	Physical Education	1	
		Total	**10**	
Semester		**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**	

FACULTY OF BUSINESS ADMINISTRATION

GRADUATE PROGRAMS

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, Banking & Finance, Entrepreneurship, Hospitality and Tourism Management, Human Resources Management, Management, Management Information Systems, Marketing and School Administration.

The MBA for Executives program is designed for non-academic individuals who have acquired the professional skills and are willing to support their experience with a scientific-based approach that entails them to become business-oriented leaders.

Joint programs have been developed in conjunction with Davenport University and Université de Toulouse 1 –Capitole leading to simultaneous degrees offered by each partner and by AUT.

The MBA Program, Supply Chain and Logistics Management Emphasis is meant to provide significant exposure to the transport and logistics industry, taught by academicians from AASTMT (Arab Academy for Science Technology and Maritime Transport- Alexandria- Egypt) (founded by the Arab League), and AUT with long industry experience.

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 & Tourism Management	39 credits
4.	Management	39 credits
5.	Management Information Systems	39 credits
6.	Marketing	39 credits

B. MBA for Executives 39 credits

C. MBA – Supply Chain and Logistics Management Emphasis - AASTMT and AUT 39 credits

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 courses	**6**
***MGT**	**689**	* **MBA Project** with **12 Credits** from the Emphasis courses	**3**

Select one of the Emphasis or Concentration:

Emphasis – Accounting			**Select 9 or 12 credits**
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 credits**
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 & Tourism Management			**Select 9 or 12 credits**
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 credits**
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 credits**
MGT	603	Managing Change in Organizations	3
MGT	608	Leadership	3
MGT	609	Organizational Development	3
MGT	613	Project Management	3
Emphasis - Marketing & Advertising			**Select 9 or 12 credits**
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

MBA Program
Supply Chain and Logistics Management Emphasis

In Collaboration with the Arab Academy for Science Technology and Maritime Transport – Alexandria - Egypt (founded by the Arab League)

With global operations becoming more complex, companies in manufacturing, retail and technology, and the consulting firms that service them, are scrambling to hire people with supply-chain expertise; but these experts arehard to come by.

Who Is This Program for?

The Supply Chain and Logistics Management emphasis is designed to respond to the needs of the Middle East business sector. It qualifies the participants to successfully face the logistical activities challenges of companies in the Middle East and to turn supply chain management into a core competence.

People with minimal experience in supply chain and logistics will acquire in-depth information that will allow themto forge successful careers the field. People with experience in supply chain and logistics will find this program useful as it will allow them to widen their understanding of the business world in general and interact over solutionsto any problems they might face at work.

The Program

The Core Requirements is made up of 27 credits that include topics such as Finance, Marketing, Accounting, Governance, Strategic Management and Information Systems, that will provide learners with a wide base of knowledge, exposure and preparation to work in most business environments. Courses are taught by prominent professors who have proven expertise in their respective fields.

The Supply Chain and Logistics Management Emphasis is meant to provide significant exposure to the transport and logistics industry, through 12 credits that consist of four subjects taught by academicians from AASTMT and AUT who have a thorough experience of industry:

1. Logistics Management
2. Strategic Supply Chain Management
3. Imports/Exports Logistics Management
4. Supply Chain Modeling

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
			24
***BUS**	**689**	***** **MBA Thesis**	**3**

The Supply Chain and Logistics Management Emphasis is meant to provide significant exposure to the transport and logistics industry through 12 credits that consist of four subjects taught by academicians from AASTMT and AUTwho have thorough experience of industry:

Emphasis - Supply Chain and Logistics Management			**12 credits**
SCM	601	Logistics Management	3
SCM	602	Strategic Supply Chain Management	3
SCM	603	Imports/Exports Logistics Management	3
SCM	604	Supply Chain Modeling	3

COURSE DESCRIPTIONS

ACC210 Principles of Accounting I (3 credits) Introduction to the basic principles, concepts, and techniques of financial accounting, explanation of the basic techniques of measuring, classifying, summarizing, reporting, and interpreting financial information. **Prereq.: ENG020**

ACC215 Principles of Accounting II (3 credits) A continuation of ACC210 Principles of Accounting I. This course will include more advanced procedures of accounting for partnerships, corporations, long-term debts and marketable securities. **Prereq.: ACC210**

ACT230 Actualities in the Arab World (3 credits) This course introduces the students to the latest news in the Arabworld. It provides students with strong background information that allows them to analyze and understand the events.

ACC311 Intermediate Financial Accounting (3 credits) This course stresses accounting theories and problems emphasizing financial reporting issues and financial statement interrelationships. It is an intensive study of generally accepted accounting principles and their application in the business world. Topics include the historical development and theoretical structure of financial reporting, revenue recognition and income determination and corporate reporting requirements. **Prereq.: ACC215**

ACC321 Cost Accounting (3 credits) This course elaborates on different types of cost information that can be used for planning and control decisions. It further introduces the cost accounting methods that may be used to gather data for inventory valuation and income determination. Topics include Cost volume profit analysis, cost accumulation techniques (job, process, standard, joint, and by-product costs), decentralization, budgeting, variance analysis, standard costing and cost allocation. **Prereq.: ACC215**

ACC371 Accounting Information Systems (3 credits) The development and use of accounting information systems for managerial control and external reporting. Concepts and principles of designing computer systems to perform accounting functions; applications of microcomputer accounting software packages, extensive use of PIMS II. **Prereq.: ACC215**

ACC375 Governmental & Non-profit Accounting (3 credits) Financial policies and procedures by government units, hospitals, trust entities, universities, schools, voluntary health welfare organizations, and other nonprofit organizations, and special interest groups for accounting for the receipts and expenditures of financial resources. Financial reporting and contemporary issues and problems faced by government and nonprofit organizations, as well as auditing issues, are emphasized. **Prereq.: ACC215**

ACC415 Advanced Accounting (3 credits) Selected accounting problems. Business combinations and consolidated financial statements. Multinational operations, segmental reporting, interim reporting, partnerships. Concepts and principles underlying the financial reports of governmental and nonprofit organizations. **Prereq.: ACC311**

ACC420 Auditing (3 credits) After completing the Auditing course, students will be able to understand audit decision making and evidence accumulation through the integration of the most important concepts of auditing and other assurance services, as well as certain practical aspects, in a logical manner. **Prereq.: ACC311**

ACC444 Taxation (3 credits) Topics include the value added taxes, calculation, application and exemption in Lebanon. The income tax law to all taxpayers-individuals, partnerships, corporations. Topics include tax accounting, income to be included and excluded in returns, tax deductions, ordinary and capital gains and losses, inventories, installment sales, depreciation, bad debts, and other losses. **Prereq.: 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. **Prereq.: 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. **Coreq.: BUS210**

BUS230 Business Law (3 credits) This course covers principles of the law of contracts; agency relationships, commercial paper and sales are discussed and analyzed through the use of the Code of Contracts and Obligations and the Code of Commerce, cases and problems. Emphasis is upon the law and business relationships.

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) This course presents the quantitative techniques commonly used in the decision making process. Topics include concepts of decision analysis, linear programming, sensitivity analysis, forecasting and time-series analysis, inventory concepts, linear regression and correlation. This course enables students to understand problem definition, structured approach to data analysis, skills in model development, solutions, testing, and validation. **Prereq.: MAT221**

BUS491 Internship (1 credit) Internship is intended to enhance students' learning experience by permitting them to work in off-campus business environments. All students are required to file a written-report for their instructor, in addition to in-class discussions, of their on-site working experiences. **Senior ~~Standing~~**

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 willcover 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 accountingof: 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 roleof 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 thebusiness 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 introduces students to the key concepts of microeconomics. Students learn the behavior of the different economic agents and the role of the government in microeconomics. Topics include supply and demand, elasticity, markets equilibrium, price control, competitive markets and monopoly. **Prereq.: ENG200**

ECO202 Macroeconomics (3 credits) This course introduces students to the main economic variables and indicators that are used to evaluate the performance of an economy as a whole. Students learn how the economic agents interact together to shape an economy as well as how the different economies interact in the global market. Topics include the aggregate output, unemployment, general price level and interest rates determination and fluctuations, international trade and debt. Emphasis is also made on the role of the government to influence the economy using Fiscal and Monetary policies. **Prereq.: 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. **Prereq.: ENG 201**

FIN200 Personal Finance (1 credit) The course covers the basic principles needed for effective personal finance management, including the practical applications of money management, budgeting, taxes, credit, insurance, housing, investments, and retirement planning. **Coreq: ENG201**

FIN221 Managerial Finance (3 credits) This course analyzes and discusses the financial decisions of national and multinational corporations, based on case studies and reading. Topics include assessment of the financial health of the organization, short and long-term financial management, project and company valuation, cost of capital, risk analysis, investment decisions, and capital markets. **Prereq.: ACC215**

FIN310 Financial Markets (3 credits) A study of the functions and operations of financial institutions. This course covers analysis of existing financial systems, money and capital markets, bank and non-bank financial intermediaries, term structure of interest rates, central banking and monetary policy, current and emerging trends in financial markets and securities markets, including the stock and bond exchanges. **Coreq.: FIN221**

FIN340 Investment Analysis (3 credits) This course is an analysis of the principles of investment. It focuses on the portfolio analysis, securities and risk valuation, capital asset pricing models, arbitrage, bond yields and returns, stock valuation, options, future contracts and investment. **Prereq.: FIN221**

FIN350 International Finance (3 credits) Students taking this course should expect to learn the nature and purposes of financial management in an international setting. The course assumes that students have working knowledge in *balance of payments, monetary systems, foreign exchange rate markets, foreign exchange rate behavior and determinants, and the relationship between price, exchange rate and interest rates*. **Prereq: FIN221**

FIN360 Financial Lab (3 credits) The Finance Laboratory enables students to bridge the gap between theory in the classroom and training on software used in the industry. In this lab, you will use industry standard databases such as: Meta Trader 5; Rotman trading cases and Rotman Portfolio manager; Wall Street Survivor. **Prereq: FIN310**

FIN411 Bank Management & Credit Analysis (3 credits) The objective of this course is to help the students understanding the problems and issues facing the banking industry and to provide them with management tools to deal with these problems and issues. Primary emphasis is on investment, financial structure, and the bank's role in determining financial variables and resource allocation. **Prereq.: FIN310**

FIN425 Financial Risk Management (3 credits) This course is aimed at upper-level undergraduate Banking and Finance students. It focuses on managing risk in the context of Basle II Accord. Emphasis is placed upon identification, measuring and managing risk at Financial Institutions. An overview of Basle II Accord is presented, along with capital requirements calculation, taking into consideration market, credit and operational risk. Basic quantitative analysis plus some legal and accounting issues are also considered. **Prereq: FIN310**

FIN440 Financial Derivatives (3 credits) This course introduces students to futures, options, forwards and swaps markets and outlines the different ways in which they can be used. Students will be familiarized with the mechanics of how futures and options contracts works; and how futures and options can be used for hedging. **Prereq: 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 the 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. **Coreq.: ENG200**

HOM220 Food Service, Production & Operation (3 credits) This course Introduces students to F&B operations through fundamental food composition and properties, food products and preparation, and food safety.

HOM230 Beverage Management (3 credits) The objective of this course is to help students to plan for bar business profitably, from layout and equipment, to hiring and staffing, to purchasing and budgeting, to responsible alcohol service. This course can be used as your road map and as a springboard for testing your own ideas and creating a solid, money making, crowd pleasing business.

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, the 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**. Prereq.: ENG201**

HOM321 Food, Beverage & Labor Cost Control (3 credits) A comprehensive and thorough understanding of quality assurance versus cost impact on profitability management is provided. Labor planning and staffing and cost control issues are also considered. Principles in management control, procedures, and functions of controlling food and beverage. Menu pricing will be examined in depth. **Prereq.: HOM325**

HOM322 Front Office Management (3 credits) This course introduces students to the essential knowledge and skills required for the successful management of the front office department in typical lodging establishments. It includes an overview of the front office organization and structure and the procedures involved in reservations and revenue management, registration, delivering quality service, managing guest accounts, the check-out process and the preparation and review of the night audit function. **Prereq.: HOM201**

HOM324 Hospitality Management Training (1 credit) Students have to spend a minimum of 65 days (7 Hrs/Day) in a 4/5 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) This course aims to give all necessary tools to organize and manage a restaurant from an owner or operator's prospective. Topics included are: concept development, concept location and design criteria, menu planning, budgeting, marketing, staffing the restaurant, equipment selection and other related topics. **Prereq.: HOM201**

HOM330 Esthetics, Etiquette and Protocol (3 credits) This course provides students with an overview of the fundamental principles of business etiquette as they apply to a variety of corporate settings. Topics include creating a powerful first impression, building a professional image, maintaining business relationships, applying basic and digital communication skills, learning proper dining etiquette and understanding cultural differences affecting international business opportunities.

HOM399 Hospitality Architecture & Design (3 credits) Development of efficient workspaces for hospitality operations, with emphasis on space utilization, human factors, ergonomics, environmental concerns and development of work-flow patterns within functional areas and the facility as a whole. Further, this course includes a basic technical understanding of the major building operating systems (HVAC, sound, water, safety and security), landscaping as well as the related operating energy and cost management. Field property visits included. **Prereq.: HOM325**

HOM427 Sales & Marketing in Hospitality Industries (3 credits) People employed in service-related businesses have to be customer oriented. Marketing calls upon everyone in the company to "think customer" and to do all that they can to help create and deliver superior customer value and satisfaction. **Prereq.: MKT201, HOM201**

HRM320 Human Resources Management (3 credits) The course outlines the role, functions and activities related to a human resources department. The students will learn about the evolution in human resources management as we know it today. Therefore, emphasis is placed on the new "corporate view" of the function such as, among other things, fair and equitable compensation and benefit programs, problem solving, training and personal development, staffing strategies, counseling, rules and regulation and legal issues. **Prereq: 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. **Prereq.: 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) This course studies the functions and capabilities of general management of a firm. Elements of the course are the various levels of management, the relationships between departments, and why managers are needed in a business organization. **Coreq.: ENG200**

MGT310 Total Quality Management (3 credits) This course will introduce students to the basic concept theories and framework of Total Quality Management and its various components, and how it can improve an organization's capabilities and offerings in order to create and sustain competitive advantage. **Prereq.: MGT201**

MGT325 Management of Small Enterprises (3 credits) This course emphasizes the steps and methods in choosing the form of small enterprises and the role of the business owner in achieving goals for success. Case studies illustrate the material. Students are expected to present and discuss cases and do some role-play. **Prereq.: MGT201**

MGT362 Operations Management (3 credits) This course is an introduction to operations management. Operations Managers transform human, physical, and technical resources into goods and services. Hence, it is vital that every organization manage this resource conversion effectively and efficiently. The focus of the course is decision-making at the operating level of the firm. A strong emphasis will be placed on the development and use of quantitative models to assist decision-making. **Prereq.: MGT201**

MGT370 International Management (3 credits) A study of international business and management practices. Topics covered include an introduction to international management and the multinational enterprise, the cultural environment of international management, planning in an international setting, organizing for international operations, directing international operations, international staffing, preparing employees for international assignments and the control process in an international context. **Prereq.: MGT201**

MGT420 Strategic Management (3 credits) This course deals with the overall general management of an organization. It stresses the role of the manager as strategist and coordinator. Students will be familiarized with organization's vision, mission, and environmental analysis, Further, students will be acquainted with theories and practice of strategy formulation and implementation. **Prereq.: MGT362**

MGT460 Organizational Behavior (3 credits) This course offers a comprehensive analysis of the behavior of an individual and a group within the context of an organizations. Students will be familiarized with how an organization can be effectively managed and how employees can improve their work, operate under pressure, be part of a decision making process, deal with organizational change and conflict and market evolution and challenges. **Prereq.: MGT201**

MGT472 Leadership (3 credits) This course addresses the theoretical foundations of the leadership's concept. Students will be familiarized with the behavioral models of leaders, their traits, influence and power, and styles and transformation. Students will also learn how to develop leadership skills to improve their own leadership abilities.

MGT600 Corporate Governance (3 credits) Corporate governance broadly refers to the mechanisms, processes andrelations 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 andstrategies and application of concepts through case studies and/or simulation exercises integrating all functional areas. Designed to develop skills in problem identification, analyses, 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) This is an introductory course in computer applications, focusing on microcomputer technology emphasizing file management, utilizing various operating system commands, statistical tools such as excel & SPSS, database software such as Access, Presentation software such as PowerPoint, and other popular software, such as word, Photoshop, outlook, etc.

MIS221 Networking & Information Infrastructure (3 credits) The objective of this course is for each student to grasp fundamental concepts of data communications and networking, as well as the practical applications of these concepts for computer-base business data communications. All coursework is framed within current issues and future trends in data communications and networking.

MIS316 Database Management Systems (3 credits) This course concerns techniques of analysis and design of algorithms involving searching, sorting, recursion and memory management. Further, students will be familiarized with the terminology, design, implementation and software associated with database design systems, the role and the need for database management. **Prereq.: MIS202**

MIS319 Management of Business Telecommunication (3 credits) This course introduces the subject of computer networks and the use of computer network in business applications. Topics covered include client-server networks, network hardware & software, distributed computing, key issues in network management and the fundamentals of data communications**. Prereq.: MIS221**

MIS325 Business System Analysis (3 credits) This course is designed to identify and apply the fundamental concepts underlying all business information systems. Emphasis is on the structured life-cycle development approach in the design of computer-based information systems. Current tools and techniques are applied to a case study project. **Prereq.: MIS202**

MIS360 Management Information Systems (3 credits) This course helps to get an understanding of how information systems are used in business setting. The topics covered will include the fundamental of information systems, strategic use of information systems, decision support and expert system. This course will describe also information systems planning, design and implementation. **Prereq.: MGT201**

MIS411 MIS Project Management (3 credits) The course will examine the needs for more sophisticated and better project management. The course will focus on the changes in the environment including computer hardware, software, and networks, as well as the use of interdisciplinary and global work teams. Students who complete this course will be able to plan, schedule, budget, estimate, control and monitor projects. **Prereq.: MIS360**

MIS430 Application Database Management (Senior Project) (3 credits) This capstone course concentrates on developing the problem solving skills needed for major commercial projects. The course provides an integrative experience in applying the knowledge and skills of earlier course work, with particular emphasis on Database application using client/server environment in an integrated setting. **Prereq.: 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, IThistory, 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 courseprovides 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 improvingbusiness 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 additionto 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) This course introduces students to the marketing world, its importance, various functions and activities and the impact it has on the business environment. Students will be acquainted with the creation of value for consumers, the marketing mix concept and its application, the segmentation, targeting and positioning and the key elements of a marketing strategy. **Prereq.: ENG200**

MKT310 Consumer Behavior (3 credits) This course will familiarize students with the various theories and models of consumer behavior taking into consideration psychological, sociological and anthropological and other social sciences. It also emphasizes on how behavior is shaped by internal and external factors and how to meet consumer needs and wants while developing a comprehensive marketing strategy. **Prereq.: MKT201**

MKT320 Sales Management (3 credits) This course deals with a study of sales functions, the relationships between sales and marketing and retail behavior in all their aspects. Subjects addressed are sales perspective, sales techniques, sales environment and sales management. Further, applications cover all areas of retail behavior in different factors and situations within marketing and trade. **Prereq.: MKT201**

MKT340 Advertising Principles (3 credits) This course reveals an overview of the advertising industry, designing, producing & placing ads. It describes the typical jobs in advertising and the basic duties associated with each job. Students will learn how advertisers and agencies develop an advertising campaign (visual, messages, place, period etc). **Prereq.: MKT201**

MKT350 Marketing Management (3 credits) This course examines the importance of marketing in an organization and its role in society. Students will be acquainted with its various functions and how to implement them. Topics include, among other things, a deep analysis of pricing, product, place, and promotion; segmentation; cultural diversity; strategy; and the assessment of the external environment.. **Prereq.: MKT201**

MKT420 Marketing Research (3 credits) This is a hands-on course. It is intended to acquaint students with the fundamental marketing research skills of problem formulation, research design, data collection, entry and processing, research analysis, presentation of findings and report writing. The course draws on both qualitative and quantitative research techniques. **Prereq.: MKT350**

MKT450 Integrated Advertising Communication (3 credits) IMC provides students with a cross-functional and analytical approach to the study of integrated communications. Students will learn how to develop consistent messages and integrate all elements of communications i.e. PR, publicity, sales promotion, event marketing, direct marketing, e-communication and personal selling, into the marketing mix. **Prereq.: MKT340**

MKT460 Customer Service Management (3 credits) The purpose of this course is to familiarize students with the philosophy and spirit of customer service, how it is embedded in the organization culture and mission, and how it can be implemented before, during and after the purchase of a product or a service **Prereq.: 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 relatedsocial 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 ofpromotion are presented, discussed and evaluated with emphasis on pricing, profitability, consumer response andimpact 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 ofmarketing 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.

SCM601 Logistics Management (3 credits) This course aims at understanding the fundamental practices in businesslogistics with in depth knowledge to manage logistics activities within the supply chain network. The course will provide students with the knowledge and practices of the different logistics activities, which include customer service, transportation, inventory control, order processing, purchasing, warehousing and distribution. Case studieswill be used throughout the course to provide students with best practice information.

TRM201 Introduction to Transport Economics and Policy (3 credits) This course aims at enabling students to understand, discuss and elaborate on the key aspects of Transport and Regional Economics in a global supply chain context. At the end of the course, students should be able to appraise transport management and related practices and critically evaluate transport policies. In essence, students will be able to take decisions with reference to transport policy and transport company management, and identify, understand and contextualize the economic concepts underlying such decisions. **Coreq.: ENG201**

TRM211 Elements of Maritime Law (3 credits) This course examines maritime law principles critical to a 21st Century legal practice. Application of tort and contract principles to the maritime field with a consideration of traditional maritime subjects: liens, collision, salvage, cargo damage, charter parties, general average, limitation of liability and ship mortgages. At the end of the course students should be able to explain the fundamentals of Maritime Law as they pertain to authorities, rights, duties and responsibilities in the commercial operation of seagoing merchant ships. **Prereq.: TRM201**

TRM221 Elements of Marine Technology (3 credits) The objective of the *Elements of Marine Technology* module is to provide students with sufficient knowledge of ship design and operations, which will assist them to operate as better managers and informed investors or financiers. Students should also understand processes that trigger innovation in shipping and its impact on ports and other parts of the supply chain. **Prereq.: TRM201**

TRM301 Shipping Economics and Management (3 credits) The objectives of this course are to enable students understand, analyze and appraise, from a research viewpoint, economic shipping theories and trends and the role shipping plays in global maritime supply chains. In addition, the aim is to afford students a broad and thorough understanding of international shipping and trade policy issues; thus offering them the strong comparative advantage of being able to put their managerial decisions in the proper industrial and trade policy perspective. **Coreq.: ECO201**

TRM321 Ports Economics and Management (3 credits) The objective of this course is to equip students with the necessary knowledge and analytical skills required for the efficient management and development of a port, and to enable them to develop and evaluate port policies under a holistic understanding of a port's significance to the national economy and international maritime supply chains. **Prereq TRM301**

TRM332 Shipping and Transport Finance (3 credits) This Shipping and Transport Finance Course is aiming at providing students with the understanding of the key issues in the financing of ships, ports, transport and other infrastructure projects. At the end of the course students will be able to develop, appraise, negotiate and choose among alternative investment proposals under conditions of risk and uncertainty; they should know how to hedge against risk through such instruments as Forward Freight Agreements and other derivative products, and they should have acquired a thorough all-round understanding of the ship-finance banking business. **Prereq.:** may be taken concurrently FIN221 & TRM201

TRM410 Logistics and Supply Chain Management (3 credits) This course explains to the students the complexities of international transport logistics as well as of the Decision Support Systems (DSS) required to optimize it. The basic philosophy of this course is rooted in the belief that in an era of intensified competition, global production and outsourcing, managers and policy makers with an in-depth understanding of the complex transport-distribution networks are definitely in possession of a strong competitive advantage. **Prereq.: TRM201**

TRM421 Maritime Logistics (3 credits) The objective of this course is to provide students with the understanding of inter-relations between terminal design and operations on the one hand, and liner shipping networks on the other. The essence of the course is in its holistic approach to shipping and terminals, as the only approach in understanding modern day maritime logistics. **Prereq.: TRM321**

AMERICAN UNIVERSITY OF TECHNOLOGY

FACULTY OF
APPLIED SCIENCES
SINCE 1998

WELCOME TO THE FACULTY OF APPLIED SCIENCE AT THE AMERICAN UNIVERSITY OF TECHNOLOGY!

WE OFFER A WIDE RANGE OF DEGREE PROGRAMS INCLUDING:

- COMPUTER SCIENCE ENGINEERING
- COMPUTER AND COMMUNICATION SCIENCE
- ENVIRONMENTAL HEALTH
- INFORMATION TECHNOLOGY
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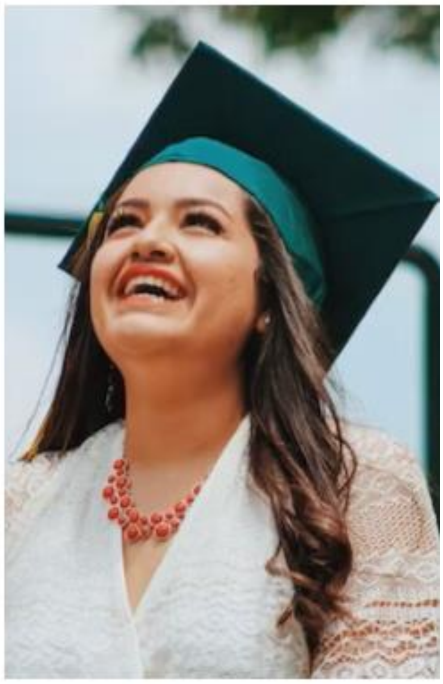
DON'T JUST TAKE OUR WORD FOR IT – HEAR WHAT OUR STUDENTS HAVE TO SAY!



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 Advantage

- Hands-on learning provides students with campus-earned experience. Programs include extensiveresearch projects to get students prepared for professional success
- The campus infrastructure allows for 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:

1.	Computer Science	99 credits
2.	Computer and Communication Sciences	110 credits
3.	Information Technology	99 credits
4.	Nutrition and Dietetics	99 credits
5.	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:

1.	Computer Science	39 credits
2.	Information Technology	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

1. Analyze a complex computing problem and apply principles of computing, mathematics, scientific reasoning, and other relevant disciplines to identify solutions.
2. 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.
3. Communicate effectively, both orally and writing, in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.

5. Function effectively as a member or leader of a team engaged in activities appropriate to the Computer Science discipline.
6. 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.

Department of 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	**26 credits**	**Prerequisites**

Core Requirements			**48 credits**	
Code	# Course	Title	Cr	Prerequisites
CSC	202	Computer Org. & Intro to Assembly Lang.	3	
CSC	206	Programming I & Lab	4	
CSC	208	Programming II & Lab	4	CSC206
CSC	210	Data Structures	3	CSC208 & MAT204
CSC	314	Database Systems I	3	CSC206
CSC	315	Computer Network & Lab	4	CSC202
CSC	325	Web Programming I	3	CSC208
CSC	341	Operating Systems	3	CSC206
CSC	350	Unix Programming	3	CSC206
CSC	420	Information Security	3	CSC315
MAT	203	Calculus III	3	MAT102/012
MAT	204	Discrete Mathematics	3	MAT101/011
MAT	205	Linear Algebra	3	MAT101/011
CSC	430	Web Project Management	3	CSC208
STA	315	Probability & Statistics	3	MAT203
Major Requirements			**25 credits**	**Grade must be C or higher**
Code	# Course	Title	Cr	Prerequisites
CSC	313 or CSC 334	Computer graphics or Game design and programming	3	CSC210 &: CSC325 & CSC314
CSC	357	Graph theory & Automata	3	CSC210
CSC	344	Database Systems II	3	CSC314
CSC	310	Introduction to Artificial intelligence	3	CSC210
CSC	417	Software Engineering	3	CSC314
CSC	424	Mobile Applications	3	CSC325
CSC	440	Web Programming II	3	CSC325
CSC	492	Senior Project - CS	3	Senior Level
CSC	495	Internship I - CS	1	Junior Level

Bachelor of Science in Computer Science

Proposed Sequence of Studies
(99 Credits)

First Year

Semester		Title	Credits	Prerequisites
Fall	ENG200	Writing Skills	3	
	HLT210	Health and Wellness (GER)	3	
	CSC202	Computer Org. & Assembly Language	3	
	CSC206	Programming I & Lab	4	
	MAT204	Discrete Mathematics	3	MAT101/011
		Total	**16**	
Spring	ENG201	Rhetoric I	3	ENG200
	MAT205	Linear Algebra	3	MAT101/011
	MAT203	Calculus III	3	MAT102/012
	CSC208	Programming II & Lab	4	CSC206
	CSC314	Database Systems I	3	CSC206
		Total	**16**	

Second Year

Semester		Title	Credits	Prerequisites
Fall	STA315	Probability & Statistics	3	MAT203
	CSC315	Computer Network & Lab	4	CSC202
	CSC350	Unix Programming I	3	CSC206
	CSC210	Data Structures	3	CSC208 & MAT204
	PED201	Physical Education (GER)	1	
	MIS411	MIS Project Management	3	CSC208
		Total	**17**	
Spring	CSC325	Web Programming I	3	CSC208 & CSC314
	CSC332	Systems Analysis & Design	3	CSC210
	CSC341	Operations Systems	3	CSC350
	BUS210	Business Communication Skills (GER)	3	ENG200
	HUM 212	AUT Cultural Plus (GER)	1	
	BUS201	Foundation of Business (GER)	3	
		Total	**16**	
Summer	CSC495	Internship I - CS	1	Junior Level
	POL202	Globalization and Political Change (GER)	3	ENG200
		Total	**4**	

Third Year

Semester		Title	Credits	Prerequisites
Fall	CSC344	Advanced Database Systems	3	CSC314
	CSC440	Web Programming II	3	CSC325
	CSC380	Algorithm Analysis & Design	3	CSC210
	CSC417	Software Engineering	3	CSC314
	CSC420	Information Security	3	CSC350 & CSC315
			3	
		Total	**15**	
Spring	CSC492	Senior Project - CS	3	Senior Level
	CSC424	Mobile Applications	3	CSC325
	CSC357	Graph Theory & Automata	3	CSC210 & MAT204
	HUM318	Human Rights (GER)	3	ENG200
	ENG 208	Term Paper	3	ENG 201
		Total	**15**	

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:

1. 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.

2. 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.

3. 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.

4. 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.

5. Exhibit strong leadership, project management, and teamwork skills, effectively communicating and collaborating with diverse teams to drive successful outcomes in multidisciplinary environments.

6. 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.

7. 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.

1st Year				**Credits**
	Fall	CSC 501	Machine Learning and Applications	3
		CSC 502	AI and Data Ethics, Policy, and Privacy	3
		CSC 503	Computer Vision	3
				9
	Spring	CSC 504	Deep Learning	3
		CSC 505	Natural Language Processing	3
		CSC 506	Biometrics	3
				9

2nd Year				Credits
	Fall	CSC 511	Reinforcement Learning	3
		CSC 5**	Graduate-Level Elective	3
		CSC 596 or CSC 598	Graduate Project or Thesis I	3
				9
	Spring	CSC 514	Advanced Topics in AI and Data Science	3
		CSC 5**	Graduate-Level Elective	3
		CSC 599 or CSC 5**	Thesis II or Graduate-Level Elective	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.

1st Year				Credits
	Fall	CSC 501	Machine Learning and Applications	3
		CSC 502	AI and Data Ethics, Policy, and Privacy	3
		CSC 523	Data Visualization	3
				9
	Spring	CSC 524	Time Series and Forecasting	3
		CSC 525	Advanced Inference Statistics	3
		CSC 526	Data Mining	3
				9

2nd Year				Credits
	Fall	CSC 531	Game Theory	3
		CSC 5**	Graduate-Level Elective	3
		CSC 596 or CSC 598	Graduate Project or Thesis I	3
				9
	Spring	CSC 514	Advanced Topics in AI and Data Science	3
		CSC 5**	Graduate-Level Elective	3
		CSC 599 or CSC 5**	Thesis II or Graduate-Level Elective	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 the 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:

1. Analyze a complex computing problem and apply principles of computing, mathematics, scientific reasoning, and other relevant disciplines to identify solutions.
2. 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.
3. Communicate effectively, both orally and writing, in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the Information Technology discipline.

6. 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	**26 credits**	**Prerequisites**

Core Requirements			**48 credits**	
Code	**Course #**	**Title**	**Cr.**	**Prerequisites**
CSC	202	Computer Org. & Intro to Assembly Lang.	3	
CSC	206	Programming I & Lab	4	
CSC	208	Programming II & Lab	4	CSC206
CSC	210	Data Structures	3	CSC208 & MAT204
CSC	314	Database Systems I	3	CSC206
CSC	315	Computer Network & Lab	4	CSC202
CSC	325	Web Programming I	3	CSC208
CSC	341	Operating Systems	3	CSC206
CSC	350	Unix Programming	3	CSC206
CSC	420	Information Security	3	CSC315
MAT	203	Calculus III	3	MAT102/012
MAT	204	Discrete Mathematics	3	MAT101/011
MAT	205	Linear Algebra	3	MAT101/011
MIS	411	MIS Project Management	3	CSC208
STA	315	Probability & Statistics	3	MAT203
Major Requirements			**25 credits**	**Grade must be C or higher**
Code	**Course #**	**Title**	•	**Prerequisites**
CSC	344	Advanced Database Systems-CSC344 is Database Systems II	3	CSC314
CSC	428	Advanced Computer Networks	3	CSC315
CSC	445	Application on database	3	CSC314
CSC	441	System & Networks Admin	3	CSC315
CSC	460	**Comp Int. & Embedded System**	3	CSC 208
CSC	446	**Network Management and Security**	3	CSC315
CSC	440	**Web Programming II**	3	CSC 325 And CSC 208 And CSC314
CSC	492	Senior Project - IT	3	Senior Level
CSC	495	Internship I - IT	1	Junior Level

Bachelor of Science in Information Technology
Proposed Sequence of Studies
(99 Credits)

First Year

Semester	Course #	Title	Credits	Prerequisites
Fall	ENG200	Writing Skills	3	
	HLT210	Health and Wellness (GER)	3	
	CSC202	Computer Org. & Assembly Language	3	
	CSC206	Programming I & Lab	4	
	MAT204	Discrete Mathematics	3	MAT101/011
		Total	**16**	
Spring	ENG201	Rhetoric I	3	ENG200
	MAT205	Linear Algebra	3	MAT101/011
	MAT203	Calculus III	3	MAT102/012
	CSC208	Programming II & Lab	4	CSC206
	CSC314	Database Systems I	3	CSC206
		Total	**16**	

Second Year

Semester	Course #	Title	Credits	Prerequisites
Fall	STA315	Probability & Statistics	3	MAT203
	CSC315	Computer Network & Lab	4	CSC202
	CSC350	Unix Programming I	3	CSC206
	CSC210	Data Structures	3	CSC208 & MAT204
	PED201	Physical Education (GER)	1	
	MIS411	MIS Project Management	3	CSC208
		Total	**17**	
Spring	CSC325	Web Programming I	3	CSC208 & CSC314
	CSC428	Advanced Computer Networks	3	CSC315
	CSC341	Operations Systems	3	CSC350
	BUS210	Business Communication Skills (GER)	3	ENG200
	HUM 212	AUT Cultural Plus	1	
	BUS201	Foundation of Business (GER)	3	
		Total	**16**	
Summer	CSC495	Internship I - CS	1	Junior Level
	POL202	Globalization and Political Change (GER)	3	ENG200
		Total	**4**	

Third Year

Semester	Course #	Title	Credits	Prerequisites
Fall	CSC344	Advanced Database Systems	3	CSC314
	CSC446	Network Management	3	CSC315
	CSC448	Network Security + Lab	3	CSC420
	CSC441	Systems & Networks Admin.	3	CSC420 & CSC350
	CSC420	Information Security	3	CSC350 & CSC315
		Total	**15**	
Spring	CSC435	Database Administration	3	CSC350 & CSC314
	CSC443	Internet Routing Protocol	3	CSC428
	CSC492	Senior Project	3	Senior Level
	ENG 208	Term Paper	3	
	HUM318	Human Rights (GER)	3	ENG200
		Total	**15**	

Master of Science in Information Technology
(39 credits)

The Master of Science (MS) in Information Technology is a forward-thinking graduate program designed to prepare students for leadership roles in the dynamic and ever-evolving field of information technology. This program offers a blend of theoretical knowledge and practical skills, focusing on the latest advancements and best practices in IT. Students will explore critical areas such as network and system administration, cybersecurity, data management, and IT governance. Through a combination of rigorous coursework, hands-on projects, and research opportunities, graduates will be equipped to address complex technological challenges, drive innovation, and implement effective IT solutions in diverse organizational settings. The program emphasizes both the technical and managerial aspects of IT, ensuring that students are well-prepared to excel in various IT roles, from technical experts to strategic decision-makers.

The Master of Science in Information Technology program aims to produce graduates who will:

1. Achieve a deep understanding of advanced information technology concepts, systems, and methodologies, enabling them to design, implement, and manage complex IT infrastructures effectively.

2. Develop the ability to analyze and solve complex IT problems using cutting-edge technologies and innovative approaches, ensuring efficient and effective solutions in various IT domains.

3. Exhibit strong leadership and management skills, capable of leading IT projects, teams, and initiatives within organizations, and making strategic decisions that align with organizational goals.

4. Acquire specialized knowledge in cybersecurity to protect information systems and networks from threats, ensuring the integrity, confidentiality, and availability of data.

5. Demonstrate a commitment to ethical practices and social responsibility in the field of IT, recognizing the societal impacts of technology and making informed, ethical decisions.

6. Engage in high-quality research that contributes to the advancement of the IT field, demonstrating the ability to conduct independent, original research and to disseminate findings through academic and professional channels.

7. Pursue lifelong learning and professional development to stay current with emerging technologies, industry trends, and best practices, ensuring their skills and knowledge remain relevant in a rapidly evolving field.

8. Communicate complex technical information effectively to diverse audiences, including technical peers, non-technical stakeholders, and the broader community, and collaborate efficiently within multidisciplinary teams.

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.

1st Year				**Credits**
	Fall	CSC 541	Advanced Network Design and Architecture	3
		CSC 542	Network Security	3
		CSC 543	Cloud Computing and Virtualization	3
				9
	Spring	CSC 544	Advanced System and Network Administration	3
		CSC 545	IoT Networking and Security	3
		CSC 546	Blockchain Technologies	3
				9

2nd Year				Credits
	Fall	CSC 551	Wireless Networks	3
		CSC 5**	Graduate-Level Elective	3
		CSC 596 or CSC 598	Graduate Project or Thesis I	3
				9
	Spring	CSC 554	Advanced Topics in Information Technology	3
		CSC 5**	Graduate-Level Elective	3
		CSC 599 or CSC 5**	Thesis II or Graduate-Level Elective	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.

1st Year				Credits
	Fall	CSC 561	Threat Analysis and Incident Response	3
		CSC 542	Network Security	3
		CSC 563	Risk Management and Compliance	3
				9
	Spring	CSC 544	Advanced System and Network Administration	3
		CSC 545	IoT Networking and Security	3
		CSC 546	Blockchain Technologies	3
				9

2nd Year				Credits
	Fall	CSC 571	Cybersecurity Management and Leadership	3
		CSC 5**	Graduate-Level Elective	3
		CSC 596 or CSC 598	Graduate Project or Thesis I	3
				9
	Spring	CSC 554	Advanced Topics in Information Technology	3
		CSC 5**	Graduate-Level Elective	3
		CSC 599 or CSC 5**	Thesis II or Graduate-Level Elective	3
				9

Bachelor of Science in Nutrition and Dietetics (BS)
(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 thisgrowing field with the objective of improving the quality of health of individuals and families as well as, improve 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 Studies
(99 Credits)

First Year

Semester	Course #	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
		Total	**14**	
Spring	BIO210	Human Physiology	3	BIO201
	CHE211	Introductory Organic Chemistry + Lab	4	CHE201
	ENG201	Rhetoric I	3	ENG200
	NTR211	Food and Nutrition	3	BIO201
		Major Elective	3	
		Total	**16**	

Second Year

Semester	Course #	Title	Credits	Prerequisites
Fall	NTR318	Physiopathology	3	BIO210
	BIO261	Introductory Biochemistry	3	CHE211
	NTR313	Nutrition Assessment + Lab	4	NTR211
	NTR345	Human Nutrition	3	NTR211
	STA210	Statistics For Science	3	
		Total	**16**	
Spring	NTR231	Food Chemistry	3	NTR211, CHE201
	NTR322	Food Processing	3	BIO201, CHE201
	NTR331	Food Microbiology & Safety + Lab	4	NTR211
	HUM318	Human Rights (GER)	3	ENG200
		Major Elective	3	
		Total	**16**	
Summer Session	POL202	Globalization and Political Change (GER)	3	ENG200
		Total	**3**	

Third Year

Semester	Course #	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
	NTR422	Food Analysis	2	NTR231
	BUS210	Business Communication Skills (GER)	3	ENG200
	BUS215	Business Presentation Skills (GER)	1	Co. BUS210
		Total	**17**	
Spring	BUS201	Foundation of Business (GER)	3	
	ENG 208	Term Paper	3	ENG 201
	NTR441	Principles of Clinical Nutrition + Lab	4	NTR345
	NTR452	Nutrition in Life Cycle	3	NTR313
		Major Elective	3	
	PED201	Physical Education (GER)	1	
		Total	**17**	

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 (BS)
(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 every Major 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 + Lab	3	
WGS	210L		1	
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
WGS	321	Water Pollutants	3	CHE201
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 I	1	
Free Elective			**9 credits**	

Bachelor of Science in Water Resources and Geo-Environmental Sciences
Proposed Sequence of Studies
(99 Credits)

First Year

Semester		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		Title	Credits	Prerequisites
Fall	WGS210	Soil Sciences	4	
	BUS210	Business Communication Skills (GER)	3	ENG200
	BUS215	Business Presentation Skills (GER)	1	Co. BUS210
	GEO302	Applied Geomorphology	3	GEO201
	WGS220	Applied Hydrology	3	
	WGS240	Aquatic Ecology	3	
		Total	**17**	
Spring	GEO220	GIS and Remote Sensing	3	WGS220, GEO201
	WGS225	Environmental Microbiology	3	
	WGS321	Water Pollutants	3	CHE201
	ENV332	Environmental Impact Assessment	3	
	HUM212	AUT Cultural Plus (GER)	1	
		Major Electives	3	
		Total	**16**	

Third Year

Semester		Title	Credits	Prerequisites
Fall	POL202	Globalization and Political Change (GER)	3	ENG200
	WGS200	Water Resources Seminar	1	
	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	
	ENG 208	Term Paper	3	ENG 201
	HUM318	Human Rights (GER)	3	ENG200
	WGS360	Environmental Modeling	3	
	WGS355	Water Law	3	
		Major Electives	3	
		Total	**15**	

COURSE DESCRIPTION

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 structureand functions, basic life processes, classification of living organisms and their life cycles and the interaction amongthem. **Prereq.: 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. **Prereq.: BIO201**

BIO210 Human Physiology I (3 credits) This course covers the basic anatomical features of the human body and ofthe different organs in addition to the physiological and functional processes of those organs. **Prereq.: BIO201**

BIO261 Introductory Biochemistry (3 credits) A study of biomolecules, bioenergetics, biosynthesis and genetic information. **Prereq.: 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 weightsand molecular formulas in addition to the concept of moles and the normality, also, the students will be introducedto the acid-base and oxidation-reduction reactions, properties of gases and liquids, the types of solutions, chemicalequilibrium and solubility. It covers also quantum theory of the atom, chemical bonds and hybridization. **Prereq.: ENG200**

CHE201L Basic Chemistry Lab (1 credit) This course covers the basic techniques used to assess qualitatively some of the most important chemical substances. **Prereq.: CHE201**

CHE211 Introductory Organic Chemistry (3 credits) This course outlines the basic principles and concepts of organicchemistry including structure, shape, IUPAC nomenclature, stereoisomerisms, properties, basic reactions and synthesis of the different organic groups. **Prereq.: CHE201**

CHE212L Introductory Organic Chemistry Lab. (1 credit) It includes experiments dealing with the basic techniquesin organic Chemistry as to the synthesis, extraction, chromatography and identification of different groups of organic compounds. **Prereq.: 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. **Coreq.: ENG020**

CSC202 Comp. Org & Assembly Languages (3 credits) This course covers an understanding of basic structure of computers and computer organization. The student will be familiar with machine instructions and programs writtenin assembly language and interface Input/Output ports to a processor. All issues to main programs calling nested subroutines will be also the subject of this course. **Prereq.: ENG020**

CSC206 Programming I (3 credits) This course covers a general introduction to programming, and a general introduction about problem solving. In this course, you will get familiar with functions, loop structures, inputting/outputting functions. At the end of the course the use of pointers is explained in details. **Prereq.: ENG020**

CSC208 Programming II (3 credits) Introduction to object-oriented programming: Classes and objects, polymorphism, inheritance. File processing, event driven programming and exception handling. The students will apply software engineering and object-oriented principles to design and implement medium sized problems. **Prereq.: CSC206**

CSC210 Data Structures (3 credits) This course explores the data structure programming with C++ and Visual basicin order to demonstrate their advantages and efficiency in the designing process. The themes to be covered are: Arrays, Pointers, Functions (Recursive and Iterative), Queues, Stacks and Trees. **Prereq.: CSC208 & MAT204**

CSC313 Computer Graphics (3 credits) Overview of graphics hardware, basic drawing algorithms, 2-D transformations, windowing and clipping, interactive input devices, curves and surfaces, 3-D transformations and viewing, hidden-surface and hidden-line removal, shading and color models, illumination models, image synthesis and computer animation. **Prereq.: CSC210, MAT205**

CSC314 Database Systems I (3 credits) Introduction to basic concepts of DBMS. Entity-Relationship Model. Relational Model and Languages. Implementation of Databases -file Organization, indexing, and hashing. Functional dependencies and normalization. Query processing. Security. Introduction to transaction management- concurrency control and recovery. SQL as a standard for database querying. **Prereq.: CSC206**

CSC325 Web Programming I (3 credits) This course surveys the many technologies that are used to program multitiered, client/server, database-intensive, Web-based applications. Topics include: HTML, Dynamic HTML, client-side and server-side scripting (with JavaScript, VBScript, and Perl), graphics, eCommerce, security, Web servers, databases (including MySQL), CGI (Common Gateway Interface), Active Server Pages (ASP), PHP, XML (eXtensible Markup Language), and Web Service. **Prereq.: CSC208**

CSC332 Systems Analysis & Design (3 credits) This course introduces the fundamental concepts in system design using both the structured and object-oriented techniques. Topics covered include designing systems starting from user interface design; logical and physical design; program and database design and implementation; maintenanceand documentation. **Prereq.: CSC210**

CSC341 Operating Systems (3 credits) This course covers Operating Systems architecture and principles. It starts with a brief historical perspective of the evolution of operating systems over the last fifty years, and then covers the major components of most operating systems. This discussion will cover the tradeoffs that can be made between performance and functionality during the design and implementation of an operating system. Particular emphasis will be given to these major OS subsystems: process management (processes, threads, CPU scheduling, synchronization, and deadlocks), memory management (segmentation, paging, swapping) and file systems. **Prereq.: CSC206**

CSC344 Advanced Database Systems (3 credits) Advanced concepts of DBMS. Entity-Relationship Model. Relational Model and Languages. Implementation of Databases -file Organization, indexing, and hashing. Functional dependencies and normalization. Query processing. Security. Introduction to transaction management - concurrency control and recovery. SQL as a standard for database querying. **Prereq.: CSC314**

CSC350 UNIX Programming (3 credits) This course is primarily about Introduction to Unix file system, vi editor, filehandling utilities, security by file permissions, process utilities, disk utilities, networking commands, cp, mv, ln, rm,unlink, mkdir, rmdir, du, df, mount, rlogin, etc. This course also covers text processing utilities and backup utilities,problem solving approaches in Unix including Using single commands, using compound Commands, shell scripts. This course also covers Unix Files including Unix file structure, directories, files and devices, System calls, library functions, low level file access, usage of open, create, read, write, close, lseek, stat, fstat, octl, umask, dup, dup2. **Prereq.: CSC206**

CSC357 Graph Theory and Automata (3 credits) This course introduces fundamental concepts in computing and information technology. As rigorous course, it challenges students to think and apply the basic theoretical models to practical problems. It introduces three main areas which are the foundation of many branches of computer sciences and technology: Automata and formal language including grammars; graph theory and coding. Topics covered include: Graph and Tree, Huffman code, theorem of kleene, generator matrix, syndromes, etc. **Prereq.: CSC210**

CSC365 Programming Languages (3 credits) This course presents a comprehensive introduction to the principal features and overall design of both traditional and modern programming languages, as well as the fundamental issues in the design and use of major programming languages. It introduces a few important programming languages *with a difference* and prepares students to further study of programming languages and develop an appreciation of a programming language as a tool for software construction, in order to evaluate and choose the language that matches a specific problem. **Prereq.: CSC210, MAT210**

CSC380 Algorithm Analysis & Design (3 credits) Basic techniques for designing and analyzing algorithms: dynamic programming, divide and conquer, prune and search, balancing, upper and lower bounds on time and space costs,worst case and expected cost measures. Data structures such as Balancing Search Tree, disjoint set union/find. A selection of applications such as graph algorithms, pattern matching. NP-Completeness. Approximate and Parallel Algorithms. **Prereq.: CSC210**

CSC417 Software Engineering (3 credits) It Introduces the process of software development and the lifecycle, teams, requirement gathering, specification, analysis, design, implementation and testing. Concepts and techniquesrelevant to the production of large software systems are also covered.

Other topics covered include modularity; specification; data abstraction; object modeling; design patterns; and testing. Several programming projects of varying size undertaken by students working individually and in groups Apart of the course is dedicated to discuss Object Oriented Programming. **Prereq.: CSC314**

CSC420 Information Security (3 credits) Security issues in computing, communications, and electronic commerce.Goals and vulnerabilities; legal and ethical issues; basic cryptology; private and authenticated communication; electronic commerce; software security; viruses and other malicious code; operating system protection; trusted systems design; network security; firewalls; policy, administration and procedures; auditing; physical security; disaster recovery; reliability. **Prereq.: IFT315**

CSC424 Mobile Applications (3 credits) This course targets the description of new emerging technologies and toolsused to design and implement applications for mobile devices (cell phones, smartphones, PDAs, etc.) taking into account the technical constraints relative to storage capacity, processing capacity, display screen, communication interfaces, and user profiles. **Prereq.: CSC325**

CSC430 Information Theory (3 credits) Shannon's theorem. Kraft's and McMillan's inequalities. Optimality and Huffman codes. Information and Entropy. Data compression using ad hoc methods and dictionary-based methods.Noisy channels and the channel coding theorem. Hamming distance, Gilbert-Varshamov bounds, error correcting codes. **Prereq.: CSC210**

CSC440 Web programming II (3 credits) This course presents the most advanced technologies available for use onthe World Wide Web and within corporate intranet environments. Emphasis and discussion is focused on the advantages and disadvantages of these technologies as well as on implementation to create unique solutions for business and industry. Strategies for planning, development, and implementation will be discussed and demonstrated. Significant time is spent on advanced programming and scripting as well as manipulation and visualization of data from various sources, including robust database management systems. Students are requiredto plan, design and implement a major project. **Prereq.: CSC325**

CSC453 Advanced Unix Environment (3 credits) This course provides students a hand-on to unix programming topics such as standard application programmer interfaces, uinx processes and threats, client/server design. This course presents advanced topics including process, process management, signals, pipes, semaphores, shared memory, and message queues. This course gives users a hand on to scripts concepts including shell programming, php, perl, etc finally, this course presents an introduction to sockets and TCP clients. **Prereq.: CSC350 & CSC420**

CSC455 Internet Security (3 credits) The general objective of this course is to introduce students to the current paradigms in intranet and internet security and to develop basic skills for applying that knowledge in practice. Students will learn fundamental concepts of firewall and intrusion detection/prevention systems that can be applied to different aspects of computer systems design as well as in dealing in day to day activities such as accessing confidential information, protecting systems, etc. This course covers basic network firewall installation/configuration techniques as well as intrusion systems and their signatures. Student will complete hands-on exercises and case study projects. **Prereq.: CSC350 & CSC420**

CSC458 Computer Forensics and Security Policies (3 credits) This course will provide students with an introductionabout the emerging field of computer forensics "The science of obtaining and analyzing evidence from computers". Topics to be covered include: collection, presentation, and preparation of computer based evidence for the purposeof criminal law enforcement or civil litigation. This course will also explore the use for forensics tools for different operating systems. **Prereq.: CSC420**

CSC460 Computer Interface and Embedded Systems (3 credits) Embedded microprocessors appear in everythingaround us, including televisions, remote controls, DVDs, PDAs, and routers. Developing software for embedded processors is different than developing standard computer software. The course begins with an introduction to nonreal-time and real-time operating system. Scheduling techniques like rate-monotonic and earliest deadline first are studied. Concurrent programming techniques, such as interrupt handling, buffer management, polling and timeouts are introduced. Design, implementation and testing using high level software, such as C. **Prereq.: CSC202**

CSC463 Software Architecture and Application (3 credits) This course introduces basic concepts and principles about software design and software architecture. It starts with a discussion on design issues, followed by coverageon design patterns. It then gives an overview of architectural structures and styles. Practical approaches and methods for creating and analyzing software architecture are presented. The emphasis is on the interaction between quality attributes and software architecture. Students will gain experiences with examples in design pattern application and case studies in software architecture. **Prereq.: CSC440**

CSC465 Distributed Database systems (3 credits) This course deals with the aspects of distributed database management systems (DDBS). The course focuses on some advanced topics that are important aspects in databasedesign, implementation, optimization, and distributed application. This course covers distributed database tuning,and the relevant techniques such as query optimization, transaction processing and the physical database design. It also introduces some new techniques related to modern database application such as database security and datamining. **Prereq.: CSC344**

CSC492 Senior Project - CS (3 credits) This course is designed to provide the opportunity to accomplish a final project under the supervision of a faculty member. This course will introduce students to the principles and practiceof product design in Computer Science: specification, evaluating design alternatives, technical reports and presentations, and independent design projects. Complete project documentation, written report and oral presentations are required. **Senior Level**

CSC495 Internship I - CS (1 credit) Prior to BS graduation, students are expected to undergo a one-to two-month training program at an institution whereby they get exposed and engaged in activities related to their field of studies, thereby gaining experience and demonstrating their skills. **Junior Level**

CSC510 Artificial Intelligence (3 credits) Mathematical logic: Calculus of propositions and calculus of predicates. These topics include the Quine algorithm, the theorem of reduction, the theorem of Davis and Putnam, the principle of resolution. The study of PROLOG and LISP includes combinatorial problems such as the tower of Hanoi. Expert Systems include systems such as frames and an introduction to robotics.

CSC511 Advanced Computer Graphics (3 credits) This course emphasizes the recent applications of computer graphics discussing the computational potential that allow such applications to materialize and become usable. An understanding of computational geometry is essential to comprehend the basis for such applications and mode of creation.

CSC513 Network Programming (3 credits) To enable students to develop the necessary skills for developing robust and scalable network applications and to build necessary knowledge for managing networks. This course presents the knowledge necessary to address basic socket programming using TCP and UDP. It presents client/server side programming, and their application protocols including: HTTP, SMTP, DNS, Tenet, FTP, UDP, IP, and Ethernets. It presents Network and Secure protocols including: TCP, UDP, IP, HTTPS, SSH, IPsec, Certificates.

CSC514 Theory of Computation (3 credits) The aim of the course is to introduce the theory of computational complexity. We start by studying the Turing machine, which is an abstract device designed by Alan Turing, its power (in terms of computational power) and limits (that lead to what we call undecidable problems). Then we explain how to measure the complexity of problems and algorithms, based on time and space used on abstract models. Important complexity classes will be defined. The notion of completeness will be established through a thorough study of NP-completeness. A variety of NP-complete problems will also be presented.

CSC515 Advanced Systems Analysis and Design (3 credits) This is an advanced course in systems analysis and design that presents conceptual material about both traditional approaches to systems development such as process oriented and data-oriented methodologies and evolving approaches such as object-oriented development methods. Key stages of the systems development life cycle including planning, analysis, and design are the focus of this course. Models and procedures for understanding and modeling an organization's existing and planned information systems are presented. Computer-aided software engineering tools are used to provide hands-on experience in designing information systems. A case-based approach is used to provide students an opportunity to apply the analytical and design techniques covered in the course. In addition, students are expected to do a real-life systems development project. The course also focuses on the issues and challenges in managing systems development.

CSC516 Advanced Database Systems (3 credits) Advanced topics in the area of database management: query processing, translation into relational algebra, operations algorithms, query optimization, heuristics and cost estimation, transaction processing, concepts and theory, transactions properties, schedules serializability, transaction support, concurrency control issues and techniques, crash recovery techniques, handling the buffer pool, the WAL protocol and the ARIES algorithm, WEB databases, intranets and extranets problem, middleware, data security . This course includes a project and a synthesis paper.

CSC517 Project Management (3 credits) This course provides an intensive coverage of project management in a wide range of project applications from concept through operations. It focuses on managing projects within an organizational context, including the processes related to initiating, planning, executing, controlling, reporting, and closing a project. Project integration, scope, time, cost, quality control, and risk management are also explored.

Other areas covered in the course are: managing the changes in organizations resulting from the introduction or revision of information systems, identifying project champions, working with user teams, training, documentation, and the change management role of the information systems professional.

CSC518 Research Methodology and Topics in CS (3 credits) This course introduces students to formal research methods and their applications to the computer science field. In the addition the student is lead to explore various areas topics for research in computer science and to research and define a topic of interest for further research in the Master Thesis course.

CSC519 Web Application Development (3 credits) This course will give the students the basic background, terminology and fundamental concepts in order to build modern full stack web applications. A full stack web developer is familiar with each "layer" of the software technologies involved in a web application, including data modeling and database technologies, the web server environment and middleware components, network protocols, the user interface and basic visual design and user interaction concepts.

CSC520 Human Computer Interaction (3 credits) This course will teach students about the importance of the human-computer interface in software design and development. The objectives of the course are: To facilitate communication between human factor engineers and computer scientists on user interface development projects; To provide the future user interface designer with concepts and strategies for making design decisions; To expose the future user interface designer to tools, techniques, and ideas for interface design; To introduce the student to the literature of human-computer interaction; To stress the importance of good user interface design. Finally students should be able to think differently, be imaginative and creative.

CSC521 Optimization Theory (3 credits) This course is an introduction to various methods of obtaining the extreme of a non-dynamic or a dynamic system and its use in systems design. Linear programming, various search methods, non-linear programming and dynamic programming are also covered. Various real-life applications are discussed and appropriate case studies are investigated.

CSC522 Neural Networks (3 credits) This course emphasizes neural dynamics: architecture and signals, activation models, unsurprised learning, surprised learning, architectures and equilibrium; The Hopfield model and recurrentnetworks; The self-organizing map and Adaptive Resonance Theory.

CSC523 Cellular Communications (3 credits) This course focuses on cellular communication in general. Cellular communication principles and concepts will be discussed with the students. The constraints and solutions for different particular cases will be given. Different cellular systems will be presented: GSM, Bluetooth. Security in cellular systems will be discussed. Real-life applications and appropriate case studies will be investigated.

CSC524 Teletraffic Modeling (3 credits) This subject exposes students to theoretical and practical aspects of modern communication network design, including teletraffic engineering and network performance modeling. It covers an overview of relevant traffic modeling, traffic characterization, traffic measurement techniques, networkdimensioning principle, queuing theory and its application to performance evaluation of networks. Students analyze practical examples of network dimensioning for capacity and network performance evaluation using simulation software packages.

CSC525 Fuzzy Logic and Applications (3 credits) Theory and applications of fuzzy logic; fuzzy fundamentals, fuzzy rules, decision-making systems, control systems, pattern recognition systems, and advanced topics, Neuro-fuzzy systems and evolutionary learning in fuzzy systems. This course will cover algorithms and computer programming for software realization with engineering applications.

CSC527 Information and Coding Theory (3 credits) This course covers information theory applied to communication systems including: information measures, Shannon's theorem. Kraft's and McMillan's inequalities, Optimality and Huffman codes, Information and Entropy, Data compression using ad hoc methods and dictionary-based methods,Noisy channels and the channel coding theorem, Viterbi algorithm, Markov chain, Hamming distance, Gilbert- Varshamov bounds, error correcting codes.

CSC528 Digital Image processing (3 credits) In this course, an observer is helped to interpret the content of an image by improving the pictorial image, information interpretation and processing of seen data for autonomous machine perception. Topics covered include: Image acquisition and storage, image transformation, image enhancement in frequency and special domains, representation and description of a scene, and recognition and interpretation.

CSC530 Advanced Software Engineering (3 credits) This course is an introduction to advanced concepts in Software Engineering. Topics include: System Re-engineering, Domain-Specific Languages, Generative Development, SystemDesign and Service-Oriented Architecture. System Re-engineering will teach students how to integrate and maintainnew systems with legacy systems. Domain-Specific Languages will use Object Management Group (OMG) standards and the Eclipse Modeling Framework (EMF) to familiarize students with model-driven software development. Generative Development will teach students the role of Unified Modeling Language (UML) modeling in automatingcode generation. System Design teaches students to understand how models can reflect an abstract architecture of software systems. Service-Oriented Architecture (SOA) will teach students to create and understand descriptions of SOA using both high level UML models and XML-based languages.

CSC531 Programming Language Design (3 credits) This course is an advanced course on principles of programminglanguage design. Major semantic approaches to programming languages will be discussed, such as structural operational semantics (various kinds), denotational semantics, and rewriting logic semantics. Programming language paradigms will be investigated and rigorously defined, including: imperative, functional, object-oriented, and logic programming languages; parameter binding and evaluation strategies; type checking and type inference;concurrency. Since the definitional framework used in this class will be executable, interpreters for the designed languages will be obtained for free. Software analysis tools reasoning about programs in these languages will also arise naturally. Major theoretical models will be discussed.

CSC532 Cryptography & Data Security (3 credits) This course is an introductory course to modern cryptography and information security. It focuses on how cryptographic algorithms and protocols work and how to use them. Thecourse covers Principles of cryptography, classical ciphers and general cryptanalysis, Symmetric primitives: Modernencryption methods and secure hashing, Public key cryptography: Key exchange, asymmetric encryption and digitalsignatures, advanced applications: protocols, key management and special cryptographic services. Throughout thecourse we will develop a good understanding of all commonly used encryption schemes and other services that canbe provided by modern cryptography.

CSC541 Advanced Operating Systems (3 credits) The class covers advanced topics in computer operating systems with a special emphasis on distributed computing, and the services provided by distributed operating systems. Important topics include naming, security, remote procedure call, networks, concurrency, transactions, parallel computing, shared memory, message passing, and scale. It will teach students to critically evaluate research papers; Tackle some challenging projects and write a paper suitable for publication.

CSC612 Optical Networks (3 credits) This course is designed to provide students with an understanding of the working principles and challenges of optical networks. Topics covered include: Enabling technologies and building blocks, single-hop networks, multi-hop networks, optical access networks (like PON, EPON, and WDM PON), opticalmetro network, wavelength routed networks (including routing and wavelength assignment strategies, light path establishment, fixed and adaptive routing and wavelength assignment strategies).

CSC613 Wireless Network (3 credits) This course covers key networking topics, including technology and architecture, network design, types of networks, and applications. It focuses on technical matters, wirelesscommunication technology, wireless networking, and wireless LANs. The course discusses traffic analysis, Fourier analysis, and data link control protocol, spread spectrum, error correction techniques, propagation, and transmission.

CSC614 Game Theory (3 credits) This course is a survey of the main ideas and techniques of game-theoretic analysisrelated to bargaining, conflict, and negotiation. As such, the course emphasizes the identification and analysis of archetypal strategic situations frequently occurring in bargaining situations. The goals of the course are to providestudents with a foundation in: applying game-theoretic analysis, both formally and intuitively, negotiation and bargaining situations, Recognizing and assessing archetypal strategic situations in complicated negotiation settings, and feeling comfortable in the process of negotiation.

CSC617 Data Mining (3 credits) This course covers the fundamental techniques and applications for mining databases. Topics include related concepts from machine learning, information retrieval and statistics, techniques and algorithms for classification, clustering, and association rules (spatial, temporal, and multimedia mining, web models), techniques and algorithms for mining the web based on its structure, content and usage, and the scalable and distributed data mining algorithms. **Prereq.: CSC516**

CSC618 Mobile Applications Design and Development (3 credits) This course covers the design and development of mobile applications. By the course's end, student teams will design and build an interactive mobile application prototype for platforms such as iOS (iPhone, iPad) and Android (Nexus, Motorola Xoom). Along the way, students will learn mobile design technique, including ideation, rapid prototyping, and evaluation; and mobile technology, including hardware, usage environment, graphics, interfaces and programming. **Prereq.: CSC519**

CSC620 Distributed Systems (3 credits) Introduction to the concepts and design principles used in constructing distributed computer systems. Coverage of topics from the architectural foundations of distributed systems through networks, file servers including transaction handling, replication, and security issues with descriptions of the design and the facilities offered in some specific systems such a RPC, Java RM and, CORBA. Areas of applications include distributed data management, multimedia systems, interoperable information systems, and distributed artificial intelligence. **Prereq.: CSC541**

CSC621 Multimedia Networks (3 credits) The objective of this course is to introduce current techniques in multimedia communications. This course provides students with an overall understanding of multimedia networking concepts and an in-depth knowledge of multimedia QoS requirements and network QoS provisions. It covers essential fundamentals in multimedia and networking, and advanced topics in multimedia QoS, multimedia protocols, multicasting and scheduling.

CSC622 Intelligent Networks (3 credits) In public communication networks, telephone networks and wireless networks, the control and services offering is one of the most important issues for successful service provision. The concept of intelligent networks was introduced in the 1980s to permit an easy and efficient development and deployment of services for such networks. Intelligent networks will be described and presented on this course. The underlying communication protocols (INAP) will be discussed. This course will cover intelligent network concepts for both fixed and wireless telephones networks.

CSC623 Linear Systems (3 credits) This course covers the concept and theories of linear system analysis; state-space modeling and analysis, controllability, observability, and stability of linear systems; properties of transfer function matrices and minimal realization.

CSC688 Master Project in CS (6 credits) A two-semester course during which the student defines, researches, design and develops a project in CS under the supervision of a faculty advisor. The project topic must be approved by a committee. The course culminates in a project defense before a jury.

CSC698 Master Thesis in CS (6 credits) A two-semester course during which the student defines and researches a topic in CS and writes a Master thesis under the supervision of a faculty advisor. The thesis topic must be approved by a committee. The course culminates in a thesis 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. **Coreq.: ENG200 or ENG260**

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. **Prereq.: 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 geoenvironmental nature. **Prereq.: 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.

CSC315 Computer Network (3 credits) Introduction to data and computer networking, data communication protocols involving a layered set of protocols, e.g., OSI, TCP/IP, LANs and WANs, Data Link standards, Network protocols with emphasis on ATM and IP, introduction to routing, Transport Layer and Application Layer. **Prereq.: CSC202**

CSC414 IT Project Management (3 credits) This course is a study of the planning and processes involved in information projects. Its topics include planning, scheduling, and controlling aspects of a project during its life cycle. The use of project management techniques such a s PERT (Project Evaluation and Review Technique) will be examined in depth as will be other techniques of planning, scheduling and controlling projects. **Prereq.: IFT315**

CSC428 Advanced Computer Networks (3 credits) This course offers a profound understanding of advanced networking principles. The course will cover a wide range of topics including: IPv6 Internetworking, Mobility and subnetting, Optical networks, Multi-Protocol Label Switching (MPLS) & Generalized MPLS, Virtual Private Network (L2, L3, and Hybrid), IP convergence, Quality of service, IntServ, DiffServ, RSVP, etc. **Prereq.: IFT315**

CS435 Database Administration (3 credits) Database Administration is a continuation of database systems and includes the following: the principles and practices of database management and administration. The course will include installation, systems tuning, application tuning, security, user management, backup and recovery. This course will also include database management systems internals and advanced elements for SQL language. As time permits, other advanced issues will be addressed, such as issues of object-oriented relations databases. **Prereq.: CSC314**

CSC441 Systems & Networks Admin (3 credits) This course covers the best practices of System and Network Administration though theoretical and practical materials and exercises. It examines the major areas of responsibility for system administrators and covering system and network planning, building, configuring and running reliable network/system services, creating security policies and enforcing them and finally maintaining those services. **Prereq.: IFT315**

CSC443 Internet Routing Protocol (3 credits) This course will cover the principles of networking with a focus on algorithms, protocols, and implementations for advanced networking services. The course will cover a wide range of topics including IPv4 vs. IPv6, static vs. dynamic routing, RIP, OSPF, Exterior routing protocols, BGP and adaptive routing. This course will illustrate several real-life study cases with the explore of their characteristics, features, and operations. **Prereq.: IFT428**

CSC445 Application on Database (3 credits) This course focuses on learning how to design, develop, and test a database application. **Prereq.: CSC314**

CSC446 Network Management (3 credits) This course is an in-depth study to network management technology and systems. This course focus on the architecture, functions, methods, and necessary protocols used to design modern network management systems. Topics include TMN concepts such as what is TNM, different TNM architecture, interfaces, and reference points, as well as management protocols used in TNM such as ACSE, CMISE, SNMPv1, SNMPv2, and SNMPv3. **Prereq.: IFT315**

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. **Prereq.: CSC420**

CSC456 IT Security Risk Management (3 credits) This course explores networking security from perspective of risk management and confirms that assessment of IP based Network systems is critical to developing strategies to mitigate and manage risks. This course focuses on effective assessment strategies that ultimately help student to implement effective and proactive risk mitigation measures and risk management practices. It exposes the vulnerabilities of TCP/IP, and appraises risk assessment, risk analysis, risk management, etc. This course examine tools and techniques used to attack, test and assure the security of the remote information, maintenance, database, etc. the student will apply this knowledge to develop an assessment methodology that identifies attacks and penetrates IP based network systems. **Prereq.: IFT448**

CSC492 Senior Project - IT (3 credits) This course is designed to provide the opportunity to accomplish a final project under the supervision of a faculty member. This course will introduce students to the principles and practice of product design in Information Technology: specification, evaluating design alternatives, technical reports and presentations, and independent design projects. Complete project documentation, written report and oral presentations are required. **Senior Level**

CSC495 Internship I - IT (1 credit) Prior to BS graduation, students are expected to undergo a one-to two-month training program at an institution whereby they get exposed and engaged in activities related to their field of studies, thereby gaining experience and demonstrating their skills. **Junior Level**

CSC515 Wireless and Mobile Computing (3 credits) The purpose of this course is primarily to introduce the wireless mobile networks with the wireless transmission techniques and the medium access control. Students will study the cellular telecommunication systems, satellite systems, wireless local networks, mobile IP, routing in ad hoc networks, transport mobile layer and mobile applications.

CSC520 Voice Over IP (3 credits) The purpose of this course is to introduce the traditional telephony and to understand how to allow IP networks to be used for voice applications, such as voice instant messaging and teleconferencing.

CSC525 Ethical Hacking & Countermeasures (3 credits) This course explores many methods on how to scan, hack and secure online systems. It gives in-depth knowledge and practical experience on perimeter defenses work, and scan and attack virtual networks or own networks (no real network is harmed). Students will learn how to hack web servers, web applications, wireless networks, mobiles applications, etc.

CSC688 Master Project in IT (6 credits) A two-semester course during which the student defines, researches, design and develops a project in the field of IT under the supervision of a faculty advisor. The project topic must be approved by an ad hoc committee assigned by the department. The course culminates in a project defense before a jury.

CSC698 Master Thesis in IT (6 credits) A two-semester course during which the student defines and researches a topic in the field of IT and writes a Master thesis under the supervision of a faculty advisor. The thesis topic must be approved by an ad hoc committee assigned by the department. The course culminates in a thesis defense before a jury.

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. **Coreq.: 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. **Prereq.: 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. **Prereq.: MAT101, Coreq.: ENG010**

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; Methodsof Proof; Sets; Functions; Proof Strategy; Mathematical Induction; Recursive Definitions; Permutations and Combinations; Relations and their Properties; Representing Relations; Equivalence Relations; Introduction tographs; Graph Terminology; Introduction to Trees. **Prereq.: 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. **Prereq.: MAT101, 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 Secantmethod; Muller's method; Gauss elimination; Least squares regression; Interpolating polynomials; Numerical integration. **Prereq.: 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. **Prereq.: MAT205, MAT210 & STA315**

NTR201 Introduction to Nutrition (3 credits) An introduction to the study of carbohydrates, fats, proteins, vitaminsand minerals and their effects on health. An overview of the processes of digestion, absorption and their metabolism.

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. **Prereq.: BIO201**

NTR231 Food Chemistry (3 credits) Basic principles of food science and food preparation. **Prereq.: NTR211, CHE201**

NTR313 Nutrition Assessment (3 credits) Exposes students to the theoretical basis of various aspects of nutritionalassessment (counseling dietary assessment, anthropometric measurement, biochemical assays, and clinical assessment). The course also familiarizes students with nutritional status assessment tools and techniques throughpractical experimentation in the lab. **Prereq.: NTR211**

NTR313L Nutrition Assessment lab (1 credit) The course familiarizes students with nutritional status assessment tools and techniques through practical experimentation in the lab. **Prereq.: 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. **Prereq.: BIO210**

NTR322 Food Processing (3 credits) Principles of food spoilage, food preservation, and the different methods of food processing. **Prereq.: 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. **Prereq.: 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. **Coreq.: NTR331**

NTR340 Foundations in Food Service Systems (3 credits) The history of foodservice, types of operation, the systemsapproach, menu planning, development and implementation and related topics. **Coreq.: NTR211**

NTR345 Human Nutrition (3 credits) Nutrient utilization and requirements of humans throughout the life cycle.
Prereq.: NTR211

NTR408 Foods & Drugs Interaction (1 credit) This course covers common pharmacokinetic mechanisms underlyingclinically 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. **Coreq.: 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. **Prereq.: 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 hospitalsetting, 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. **Prereq.: NTR441**

NTR411L Dietetics I lab (1 credit) This course discusses practical integration of knowledge and skills required duringDietetics I course. It includes clinical assessment and nutritional monitoring techniques, analysis of interviewing andcounseling situations, and application of quality assurance procedures. **Prereq.: NTR441 & NTR411**

NTR422 Food Analysis (2 credits) Introduces the laboratory methods for chemical analysis of nutrients andchemicals in food products. **Prereq.: NTR231**

NTR441 Principles of Clinical Nutrition (3 credits) Introduction to the nutritional management of disease, medicalterms, assessment, interviewing and counseling skills. **Prereq.: NTR345**

NTR441L Clinical Nutrition Lab (1 credit) Self-study modules, case studies, reports and discussions. **Prereq.: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. **Prereq.: NTR313**

PHY101 Physics I (3 credits) Elements of vector calculus, position, velocity and acceleration. Motion in one and twodimensions. 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.

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) Covers basic statistical techniques emphasizing business and economic applications. Topics covered include graphical and numerical data summary techniques, elementary probability theory, probability distributions, sampling distributions, estimation, and simple regression. **Prereq.: MAT100, MAT010, or placement**

STA315 Probability and Statistics for Sciences (3 credits) Basic statistical techniques emphasizing engineering andscience 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. **Prereq.: 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 organizationswill 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 evolutionof soils. It also discusses the importance of soil as a resource and as an integral component in an array of fields fromagriculture 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.

WGS240 Aquatic Ecology (3 credits) Explores the principles of water masses as life supporting systems, the basics of aquatic ecosystems, the diversity of life, natural balance, sustainability of such systems, and their significance asresources.

WGS321 Water Pollutants (3 credits) Addresses means, factors and components that induce changes in the naturalproperties of water from biological to physical and chemical. **Prereq.: CHE201**

WGS322 Water Chemistry Techniques (3 credits) Treats the analytical methods that provide data on the chemistryof water and the usefulness of the data acquired. **Prereq.: 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 andthe 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. **Prereq.: ENG201, WGS201**

WGS355 Water Law (3 credits) Historical development of water allocation law and transboundary water law with special emphasis on water security in the Middle East. The course also introduces conflict resolution theories with examples and applications from water conflicts.

WGS360 Environmental Modeling (3 credits) Introduction of the basic principles of ecological/environmental modeling including model conceptualization, construction, analysis, use and abuse. Students will develop knowledge and skill through a sequence of modeling exercises that culminate with the design, implementation, and evolution of their own simulation model.

WGS365 Water and Wastewater Engineering (3 credits) Planning, analysis, and design of wastewater managementsystems with emphasis on chemical, biological and physical treatments. The course also discusses waste water reuse and biosolids management. **Prereq.: 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).