His Highness Sheikh Dr. Sultan Bin Mohammad Al Qassimi
Supreme Council Member, Ruler of Sharjah
Founder and President of American University of Sharjah
Chancellor’s Message

I am pleased to introduce you to American University of Sharjah through the information contained in the pages of this catalog. I commend the catalog to you as an indispensible guide to our university, its people, programs and policies.

His Highness Sheikh Dr. Sultan Bin Mohammad Al Qassimi, Ruler of Sharjah and Member of the Supreme Council of the United Arab Emirates, founded AUS in 1997 and has served ever since as its President and the Chairman of its Board. In the 17 years since our founding, the university has experienced an increase in reputation and breadth of offerings that is virtually unparalleled in the history of global higher education. From small but ambitious beginnings, AUS has never waivered in its determination to recruit the finest faculty and the most promising students to come to our campus and to become part of our growing family of teachers and learners. Today AUS provides 26 majors and 53 minors at the undergraduate level, and 14 master's degrees programs, all of them accredited both in the UAE and in the United States. Our spectacular campus is home to over 360 faculty, every one of whom is handpicked as a world expert in a field of study offered within our curriculum. Ever true to His Highness’ vision for AUS, we strive in all we do to provide the highest caliber education to the 5,500 students who proudly call AUS their university home.

If you are careful to fulfill all the graduation requirements that are laid out in this catalog, you will find yourself rewarded with a degree that is acknowledged and honored everywhere in the world. You will also discover that your experience at AUS has unlocked for you new vistas for exploration and discovery far beyond your imaginings. AUS is designed as a university that presents you at every turn with opportunities for fresh encounters, both with people and with ideas. And although the parameters of study at AUS are clearly delineated in the pages of this catalog, the AUS experience is only complete when animated by our many extra- and co-curricular activities, as well as by the countless serendipitous conversations and gatherings, with both professors and other students, that invigorate daily life across our beautiful campus.

Spend time perusing these pages, and as you do, familiarize yourself with our courses of study, our ways of doing things, and our distinctive culture. Please remember that AUS is still inventing itself and always trying to find ways to be a better, more vibrant place for you to live and learn. I wish for you every success in whatever field of intellectual engagement you may choose and in whatever career path you may ultimately select, as you take your AUS education forward with you throughout your life.

Sincerely,

Thomas J. Hochstettler
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The graduation requirements for any individual student are normally determined by the catalog that was effective when the student matriculated in the major. A student may choose to follow the catalog effective for the semester when the student expects to complete his/her graduation requirements. The policies, procedures and academic regulations published in the American University of Sharjah catalog are effective at the time of publication but may be subject to change. Students are responsible for adherence to the most up-to-date policies, procedures and academic regulations.
## Graduate Academic Calendar 2013–2014

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<tr>
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<td>Regular admissions applications deadline for Fall Semester 2013 for applicants from inside UAE Assistantship applications deadline for Fall Semester 2013 for new students</td>
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<td><strong>September</strong></td>
<td><strong>2013</strong></td>
<td><strong>2014</strong></td>
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<td>5 Thursday</td>
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<tr>
<td>11 Wednesday</td>
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</tr>
<tr>
<td>15 Sunday</td>
<td>First day of classes/Add and drop period begins</td>
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</tr>
<tr>
<td>22 Sunday</td>
<td>Late registration period begins</td>
<td></td>
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<tr>
<td>29 Sunday</td>
<td>Late registration and add and drop period end at 5 p.m. Deadline to pay Fall Semester 2013 tuition fees without late payment penalty, 5 p.m.</td>
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<tr>
<td><strong>October</strong></td>
<td><strong>2013</strong></td>
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<tr>
<td>3 Thursday</td>
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<tr>
<td>10 Thursday</td>
<td>Classes end at 10 p.m. for Eid Al Adha holiday*</td>
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<tr>
<td>18 Friday</td>
<td>Classes resume at 8 a.m.</td>
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<tr>
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<td><strong>2013</strong></td>
<td><strong>2014</strong></td>
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<tr>
<td>4 Monday</td>
<td>Classes end at 10 p.m. for Al Hijra holiday*</td>
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<tr>
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<td>Classes resume at 8 a.m.</td>
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<td><strong>December</strong></td>
<td><strong>2013</strong></td>
<td><strong>2014</strong></td>
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<tr>
<td>1 Sunday</td>
<td>Classes end at 10 p.m. for UAE National Day holiday</td>
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<tr>
<td>1 Sunday</td>
<td>Deadline to withdraw from a course without a grade penalty, 5 p.m. Last day to move from thesis to project and vice versa</td>
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<tr>
<td>4 Wednesday</td>
<td>Classes resume at 8 a.m.</td>
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<tr>
<td>15–January</td>
<td>Advising and early registration for Spring Semester 2014</td>
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<tr>
<td>24 Tuesday</td>
<td>Classes end at 10 p.m. for Christmas holiday</td>
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</tr>
<tr>
<td>26 Thursday</td>
<td>Classes resume at 8 a.m.</td>
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<tr>
<td>31 Tuesday</td>
<td>Classes end at 10 p.m. for New Year holiday</td>
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<tr>
<td><strong>January</strong></td>
<td><strong>2014</strong></td>
<td><strong>2014</strong></td>
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<tr>
<td>2 Thursday</td>
<td>Classes resume at 8 a.m.</td>
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<tr>
<td>8 Wednesday</td>
<td>Regular admission applications deadline for Spring Semester 2014 for applicants from outside UAE</td>
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<tr>
<td>11 Saturday</td>
<td>Fall Semester 2013 classes end at 10 p.m. (Wednesday classes to be held today)</td>
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<tr>
<td>12 Sunday</td>
<td>Fall Semester 2013 study and examination period begins</td>
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<tr>
<td>13 Monday</td>
<td>Exams end at 10 p.m. for Al Mawalid Al Nabawi holiday*</td>
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<tr>
<td>15 Wednesday</td>
<td>Exams resume at 8:00 a.m.</td>
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<tr>
<td>19 Sunday</td>
<td>Fall Semester 2013 study and examination period ends at 10 p.m.</td>
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<tr>
<td>22 Wednesday</td>
<td>Regular admissions applications deadline for Spring Semester 2014 for applicants from inside UAE Assistantship applications deadline for Spring Semester 2014 for new students</td>
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<tr>
<td>25 Saturday</td>
<td>Fall Semester 2013 Commencement</td>
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<td><strong>Spring Semester</strong></td>
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<td><strong>January</strong></td>
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<tr>
<td>23 Thursday</td>
<td>Residential halls open</td>
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<tr>
<td>29 Wednesday</td>
<td>Registration for new students begins</td>
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<tr>
<td><strong>February</strong></td>
<td><strong>2014</strong></td>
<td><strong>2014</strong></td>
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<tr>
<td>2 Sunday</td>
<td>First day of classes/Add and drop period begins</td>
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<tr>
<td>9 Sunday</td>
<td>Late registration period begins</td>
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<tr>
<td>16 Sunday</td>
<td>Late registration and add and drop period end at 5 p.m. Deadline to pay Spring Semester 2014 tuition fees without late payment penalty, 5 p.m.</td>
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<tr>
<td><strong>March</strong></td>
<td><strong>2014</strong></td>
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<tr>
<td>20 Thursday</td>
<td>Applications due for Spring Semester 2014 graduation</td>
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<tr>
<td>20 Thursday</td>
<td>Classes end at 10 p.m. for Spring Break</td>
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<tr>
<td>28 Friday</td>
<td>Classes resume at 8 a.m.</td>
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<td><strong>April</strong></td>
<td><strong>2014</strong></td>
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<tr>
<td>17 Thursday</td>
<td>Deadline to withdraw from a course without a grade penalty, 5 p.m. Last day to move from thesis to project and vice versa</td>
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<tr>
<td>30 Wednesday</td>
<td>Applications due for Summer Term 2014 graduation</td>
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<tr>
<td><strong>May</strong></td>
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<td>4–22 Sunday–Thursday</td>
<td>Advising and early registration for Summer Term 2014 and Fall Semester 2014</td>
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<td>21 Wednesday</td>
<td>Regular admission applications deadline for Summer Term 2014 and Fall Semester 2014</td>
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<tr>
<td>24 Saturday</td>
<td>Spring Semester 2014 classes end at 10 p.m.</td>
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<tr>
<td>25 Sunday</td>
<td>Spring Semester 2014 study and examination period begins</td>
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<tr>
<td>26 Monday</td>
<td>Exams ends at 10 p.m. for Al Israa Wal Miraj holiday*</td>
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<tr>
<td>28 Wednesday</td>
<td>Exams resume at 8 a.m.</td>
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<td><strong>June</strong></td>
<td><strong>2014</strong></td>
<td><strong>2014</strong></td>
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<td>2 Monday</td>
<td>Spring Semester 2014 study and examination period ends at 10 p.m.</td>
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<td>Spring Semester 2014 Commencement</td>
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<tr>
<td>17 Tuesday</td>
<td>Late registration period begins</td>
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<tr>
<td>19 Thursday</td>
<td>Late registration and add and drop period end at 3 p.m. Deadline to pay Summer Term 2014 tuition fees without late payment penalty, 3 p.m.</td>
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<tr>
<td><strong>July</strong></td>
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<tr>
<td>20–21 Sunday–Monday</td>
<td>Summer Term 2014 study and examination period</td>
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*Islamic holidays are determined after sighting the moon. Thus, actual dates may not coincide with the dates in the calendar. In the event of loss of teaching days due to unscheduled closings, the semester(s) may be extended.

**Note:** Executive graduate programs might follow a different registration and payment timeline. This timeline is announced by the office of the graduate program director after consultation with the Office of the Registrar and the Office of the Director of Finance.
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## Directory

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www.aus.edu

<table>
<thead>
<tr>
<th>Department</th>
<th>Telephone</th>
<th>Fax</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Support Center</td>
<td>515 2096</td>
<td>515 2097</td>
<td><a href="mailto:aac@aus.edu">aac@aus.edu</a></td>
</tr>
<tr>
<td>Achievement Academy/Bridge Program</td>
<td>515 2653/54</td>
<td>515 2638</td>
<td><a href="mailto:academy@aus.edu">academy@aus.edu</a></td>
</tr>
<tr>
<td>Admissions/Enrollment Management</td>
<td>515 1000</td>
<td>515 1020</td>
<td><a href="mailto:admission@aus.edu">admission@aus.edu</a></td>
</tr>
<tr>
<td>Career Services</td>
<td>515 2066</td>
<td>515 2065</td>
<td><a href="mailto:odaa@aus.edu">odaa@aus.edu</a></td>
</tr>
<tr>
<td>Chancellor</td>
<td>515 2205</td>
<td>558 5858</td>
<td><a href="mailto:chancellor@aus.edu">chancellor@aus.edu</a></td>
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<tr>
<td>College of Architecture, Art and Design</td>
<td>515 2869</td>
<td>515 2800</td>
<td><a href="mailto:deancaad@aus.edu">deancaad@aus.edu</a></td>
</tr>
<tr>
<td>College of Arts and Sciences</td>
<td>515 2412</td>
<td>558 5067</td>
<td><a href="mailto:deancas@aus.edu">deancas@aus.edu</a></td>
</tr>
<tr>
<td>College of Engineering</td>
<td>515 2948</td>
<td>515 2979</td>
<td><a href="mailto:dosoe@aus.edu">dosoe@aus.edu</a></td>
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<tr>
<td>Corporate Relations</td>
<td>515 2016</td>
<td>515 2065</td>
<td><a href="mailto:odaa@aus.edu">odaa@aus.edu</a></td>
</tr>
<tr>
<td>Development and Alumni Affairs/VCDA</td>
<td>515 2547</td>
<td>515 2297</td>
<td><a href="mailto:odaa@aus.edu">odaa@aus.edu</a></td>
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<tr>
<td>Finance</td>
<td>515 2185</td>
<td>515 2190</td>
<td><a href="mailto:finance@aus.edu">finance@aus.edu</a></td>
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<tr>
<td>Finance and Administration/VCFA</td>
<td>515 2192</td>
<td>515 2130</td>
<td><a href="mailto:vcfaoffice@aus.edu">vcfaoffice@aus.edu</a></td>
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<tr>
<td>General Information</td>
<td>558 5555</td>
<td>558 5858</td>
<td><a href="mailto:info@aus.edu">info@aus.edu</a></td>
</tr>
<tr>
<td>Health Center</td>
<td>515 2699</td>
<td>515 2690</td>
<td><a href="mailto:clinic@aus.edu">clinic@aus.edu</a></td>
</tr>
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The University

Historical Preamble
American University of Sharjah (AUS) was founded in 1997 by His Highness Sheikh Dr. Sultan Bin Mohammad Al Qassimi, Member of the Supreme Council of the United Arab Emirates and Ruler of Sharjah. Sheikh Sultan articulated his vision of a distinctive institution against the backdrop of Islamic history and in the context of the aspirations and needs of contemporary society in the UAE and the Gulf region.

AUS was mandated to:
- reinforce the efforts of the leaders of the UAE "to ensure that science and education regain their rightful place in the building and advancement of our society and shaping the lives of our children"
- join other institutions of higher education in seeking "to reshape fundamentally the minds of our youth to enable them to address the challenges of life using the scientific method"
- become a "center of research for educational development and the solution of social problems"
- become "organically linked" to the economic, cultural, scientific and industrial sectors of society in "productive cooperation"
- exercise the "independence and objectivity in teaching and research" necessary for the achievement of these goals

Vision Statement
American University of Sharjah (AUS) will be the region’s leader in higher education, known for excellence and innovation in teaching, learning, research and service.

Mission Statement
American University of Sharjah (AUS) is a comprehensive, independent, non-profit, coeducational institution of higher education that fosters excellence in teaching, learning and research. Based on an American model of higher education and grounded in the culture of the Gulf region, AUS fosters a community that embraces cultural diversity and whose members are committed to the ideals of open intellectual inquiry, ethical behavior, and social and civic responsibility. An engaged, productive and effective member of society, AUS educates lifelong learners who display mastery in the core competencies of their areas of specialization, and who communicate clearly, think critically and solve problems creatively.

Overview
American University of Sharjah is an independent, not-for-profit, coeducational institution. Although consciously based upon American institutions of higher education, AUS is expected also to be thoroughly grounded in Arab culture and to be part of a larger process of the revitalization of intellectual life in the Middle East.

American University of Sharjah has succeeded in building a multicultural education environment that brings together people from diverse nations and backgrounds. AUS strives to instill in its students the importance of appreciating and understanding diversity, global issues and their own roles in society.

AUS is a leading comprehensive coeducational university in the Gulf, serving students from the Gulf region and around the world. AUS students are introduced to a culture of high aspiration and achievement to aid them in leading productive and meaningful lives. AUS is also dedicated to the preservation of the natural environment, free from pollution and neglect. This sense of environmental responsibility is passed on to AUS graduates in order to create ecologically aware citizens.

In keeping with its mission, AUS offers students an education that will enable them to comprehend the dynamism and complexity of contemporary global processes. Through the integration of liberal studies and professional education, students are given both breadth of knowledge and specialization in their chosen fields. Education at AUS runs the gamut from art, poetry and religions from past civilizations to the latest skills and technologies of today’s information age. These are all presented to students in order to produce future leaders with a firm understanding of how society has reached its present state. The combination of traditional and innovative teaching methods provides an educational environment in which students can realize their individual potential and pursue their goals.

Through the College of Architecture, Art, and Design, the College of Arts and Sciences, the College of Engineering, and the School of Business and Management, the university offers 26 majors and 53 minors at the undergraduate level and 14 master’s degrees.

While Arabic is the official language of the United Arab Emirates, the language of instruction at AUS is English. All classes and administrative functions are conducted in English.

Islam is the official religion of the state, and Arab Islamic culture predominates in the UAE. The nation is also distinguished by its tolerance toward its large expatriate communities, which comprise diverse nationalities, cultures and religious beliefs. Following in this spirit of understanding and acceptance of all peoples, AUS admits students solely on the basis of their academic qualifications regardless of race, color, gender, religion, disabilities, age or national origin. The university’s mission is to create a multicultural, international academic community in order to prepare its students to become lifelong learners equipped to adapt to the needs of our changing world.

AUS was established as an “American” university not only in its formal academic and organizational characteristics but also in the recognition that the total culture and philosophy of the educational community is as significant as the formal program of studies. Students learn the lessons of the classroom and the lessons of life in a coeducational, multicultural and multinational environment. From its inception, AUS was envisioned as a place that would “feel” like an American campus.

Accreditation and Licensure
AUS is licensed and its programs are accredited by the Commission for Academic Accreditation of the Ministry of Higher Education and Scientific Research in the United Arab Emirates.

AUS is also accredited in the United States of America by the Commission on Higher Education of the Middle States Association of Colleges and Schools (3624 Market Street, Philadelphia, PA 19104, USA, Tel +1 215 662 5606).

The bachelor of science degree programs in chemical engineering, civil engineering, computer engineering, electrical engineering and mechanical engineering offered by the College of Engineering are accredited by Engineering Accreditation Commission of ABET (www.abet.org).

The bachelor of science degree program in computer science offered by the College of Engineering is accredited by
The Bachelor of Science in Business Administration (BSBA) as well as the Master of Business Administration (MBA) and Executive Master of Business Administration (EMBA) degrees offered by the School of Business and Management are accredited by the Association to Advance Collegiate Schools of Business (AACSB), www.aacsb.edu. The Bachelor of Architecture program of the College of Architecture, Art and Design is accredited by the National Architectural Accrediting Board (NAAB) of the United States, www.naab.org.
Campus Life

The Campus Complex

American University of Sharjah is situated in University City, which is located 16 kilometers (10 miles) from the center of Sharjah. The distinctive architecture of the domes and arches of the academic and administrative buildings is accented with graceful Arab motifs.

The center of the AUS campus comprises 12 academic buildings. The academic buildings house classrooms and lecture halls of various sizes; a state-of-the-art library; science, language, computer and engineering laboratories; workshops, digital studios and dark rooms; and offices for faculty, academic administrators and support staff.

The campus includes student residential halls (for men and for women) as well as a large Sports Complex and a Student Center. Approximately 40 percent of the student body lives in campus housing. Unlike most American universities, AUS requires faculty members and their families to live on campus. Thus, there is a large and continuous faculty presence at the heart of the campus, providing students with a learning and living environment that allows for on-going interaction with faculty members and their families.

The City of Sharjah

The location of the university enhances its mission. Sharjah is situated strategically between the Far East and the West, between Africa and Asia. Straddling the breadth of the UAE, the emirate of Sharjah has beautiful beaches on the shores of both the Arabian Gulf and the Gulf of Oman. Its landscape varies from level plains to rolling sand dunes and mountain ranges.

Today, as in ancient times, Sharjah is a global trade center. Modern Sharjah is a city of learning and the arts, as confirmed by its 1998 UNESCO designation as the Cultural Capital of the Arab World. This context facilitates the university’s intention to be an academic center at the intersection of ancient cultural traditions and contemporary intellectual currents. The city of Sharjah boasts over 27 museums with splendid collections of artifacts and art objects as well as exhibits on science and natural history. These institutions are sites for field trips, research and possible internships. Sharjah hosts many cultural festivals, programs, educational conferences, fairs and economic expositions, including the annual book fair and the Sharjah International Biennial art exhibition. These resources permit AUS to broaden students’ formal education in a way not possible elsewhere in the region.

Campus Services

Miscellaneous service outlets are available on campus to cater for the needs of faculty members, staff members, students, and campus residents alike. These include services such as banking, dining, transportation, laundry, minimarts, a full-service post office and copy center, a bookstore, and a pharmacy. Other services available include a travel office, a hairdresser and a barbershop, and a gifts and memorabilia shop.

Parking lots, free and paid, are provided for faculty, staff, students, residents and visitors. Campus security and safety is monitored by the Public Relations Department.

The Public Relations Department also provides government related services for faculty, staff, and students, including passport custody, medical test assistance, the processing of visas and residence permits, driving licenses, car registration, traffic violations and accidents, official letters that might be required by various government and/or private organizations.

Detailed information on campus services is available in the On Campus section of the AUS website and in the Student Handbook, available at http://www.aus.edu/osa/handbook.

Facilities and Resources

Architecture, Art and Design Facilities

Beginning with the freshman year, College of Architecture, Art and Design (CAAD) students benefit from open studios and robust, state-of-the-art facilities. Students accepted into the second year studio majors have dedicated individual worktables and computer workstations with network connections. Dedicated ancillary spaces, which are shared by all curricula, include an exhibition gallery, lecture hall, digital classrooms, high-end Macintosh and Intel-based labs, and comprehensive printing facilities. For CAAD students and faculty, there are Lighting, Photography, Sound and Print labs, an Interactive Lab, and a Materials Lab and Library. Facilities cover the history of making—from clay to new materials and techniques that comprehensively span the use of the hands and hand-tools to mechanical and digital fabrication. The Digital Fabrication Lab is among the most advanced university facilities internationally.

Central Instrumentation Facility

The Central Instrumentation Facility (CIF) at American University of Sharjah is an interdisciplinary research facility that is dedicated primarily to supporting faculty and students in their efforts to find creative solutions to challenging problems through collaborative work. The CIF goals are to:

• provide training and basic analytical research support for faculty and students at AUS
• house expensive, multi-user instruments that require stable source of power, controlled atmosphere (e.g., temperature, humidity, chemicals, dust, etc.), operational supervision and maintenance
• promote research projects that transcend normal disciplinary boundaries and encourage active collaboration between faculty at AUS and elsewhere
• allow outside users to utilize CIF equipment on a fee basis

Computer Learning Resources

The Information Technology (IT) Department serves the computer-related administrative, instructional, technical and research needs of students, faculty and staff. It also acts as the university’s gateway to the Internet for academic purposes. Services provided include email accounts and passwords, online courseware (Blackboard), wireless and local area networks and telephone services.

All classrooms are networked and equipped with data projectors and other technology that enable faculty members and students to enhance learning with digital and online content. Wireless network access is available in all academic areas of the campus.

AUS departments and programs offer a range of specialized computer laboratories with software to support student work. Additionally, the library features an information commons with an expanded range of computers, software and related technology along with support for students’ research and other academic work.

The university’s computer network uses fiber-optic cables that interconnect the entire campus, including the residential halls and faculty housing. Additional information can be found in the IT section of the university website.
Development and Alumni Affairs

The Office of Development and Alumni Affairs (ODAA) fosters relationships between AUS and its alumni by providing opportunities for mutual involvement that contribute to the missions and interests of both. Since many of the alumni are situated within the neighboring community, the ODAA also seeks to publicize the university’s programs, goals and achievements to the off-campus community, including alumni, parents and interested friends of the university.

The ODAA promotes a spirit of unity and of possible collaboration among current and former students on current as well as future projects. The alumni are valuable assets, and they are provided ways to aid in the further development of the university by drawing on their knowledge, skills, financial resources and their sense of deep loyalty to their alma mater.

The ODAA enhances the financial wellbeing of AUS by raising contributions for the AUS Endowment Fund and establishing fruitful contacts and mutual collaborations with the wider community, which in turn enhances the visibility of AUS and its stature in the UAE and beyond.

The ODAA also offers students and alumni comprehensive career services. It works closely with industry in the UAE and the region to promote interaction between potential employers and AUS students and alumni. It organizes corporate briefings, the AUS Business Forum, the annual Alumni Reunion and the annual Career Fair, and provides information on job opportunities, internships and summer employment. The ODAA has a career resource library and an up-to-date database of AUS alumni and employers in the UAE and Middle East.

For more information on the ODAA, please visit www.aus.edu/odaa, or contact Dr. Nada Mourtada-Sabbah, Vice Chancellor for Development and Alumni Affairs, 06 515 2547, vcda-office@aus.edu.

Jafar Centre for Executive Education

Executive development programs for business and government leaders are an integral part of the university’s contribution to the future of the UAE. Located in the School of Business and Management, the Jafar Centre for Executive Education (JCEE) provides an ideal venue for executive learning. Leadership programs, professional training, short courses and conferences can be hosted in a state-of-the-art facility with equipment and furnishings to support a variety of learning formats, including team activities, video conferences, lectures and seminars. The mission of JCEE is to facilitate interaction between AUS faculty and the business community for the purpose of developing the leadership capacity of entrepreneurs in the UAE and the wider region. Faculty interaction with business leaders also allows professors to take the needs of business and government back into the classroom with graduate and undergraduate students. Bringing together faculty from across the university, the JCEE is able to respond to almost any business requirement.

Labs

Engineering and Computing Laboratories

The College of Engineering has approximately 30 laboratories and workshops. All equipment and instruments are accessible to and extensively used by the students. Laboratory summaries are presented below and may be reviewed in detail on the college’s website.

Chemical engineering laboratories focus on unit operations, corrosion, environmental, petroleum, water, materials, fluid flow, heat transfer, and process computer simulation.

Civil engineering laboratories are designed for conducting standard and advanced construction materials, structural, geotechnical, fluid mechanics, water and environmental tests pertinent to both teaching and research.

Engineering research activities are conducted in advanced laboratories related to computer engineering programming, digital systems, microprocessors, very large scale integration (VLSI), embedded systems, industrial computer applications, computer networks, software engineering, operating systems and databases.

Electrical engineering laboratories focus on electronics, electric power, control, measurements, machines, communications and signal processing, nondestructive testing and medical electronics. The Department of Electrical Engineering also has a class 10,000 clean room facility for testing microelectronic chips as well as an advanced EDA lab.

Mechanical engineering has laboratories for engineering measurements, control, engine testing, advanced manufacturing, fluid mechanics, materials testing, mechatronics, aeronautics, dynamics and mechanical vibrations, computer-aided engineering, refrigeration and air-conditioning, thermodynamics and solar energy.

Mechatronics engineering has a well-equipped center providing an excellent work environment for multidisciplinary teaching and research. Lab activities enable students to integrate, with synergy, contemporary precision mechanics, state-of-the-art control systems, embedded computers and electronics.

The various departments share eight computer labs with more than 230 stations loaded with research-type software. All labs have dedicated lab instructors and engineers. Additionally, all engineering facilities offer wireless connectivity.

Interpreting and Translation Laboratory

The Department of Arabic and Translation Studies has a purpose-built interpreting facility. It features simultaneous interpreting booths, a consecutive interpreting table, Internet access and equipment for simulated video teleconferencing. The department also has another lab, which is equipped with machine translation software, TRADOS and other relevant software, including Internet-based, needed in language engineering as well as subtitling.

Mass Communication Laboratories and Studios

Students in the Department of Mass Communication benefit from high-tech digital classroom labs with Mac and PC computer stations featuring graphic design, desktop publishing, video effects, video editing and multimedia software. The Mass Communication TV Studio is an excellent facility that is dedicated to the development of student media skills. The studio consists of four digital wide-screen cameras, a wide-screen digital video mixer and a digital audio mixer. A variety of sets can be created quickly, including a broadcast news set.

Science Laboratories

The science programs benefit from up-to-date laboratories and equipment. Chemistry laboratories are equipped with standard chemical instrumentation, including balances, centrifuges, pH-meters, spectrophotometers, a rapid kinetic apparatus, glove box, and electrochemical and chromatographic equipment. The environmental sciences and analytic chemistry laboratories are equipped with the latest sampling and analytical devices, including AA, GC-MS, ICP, FTTIR, TOC, HPLC equipment and a 400 MHz Bruker Biospin NMR machine. The physics laboratories are supplied with up-to-date standard equipment, including computer interfaces, motion sensors, current sensors, voltage sensors, magnetic linear air tracks, photogates, smart timers, projectile launchers, ballistic pendulums, rotational systems, digitometer, electric field mappers, current balance.
apparatus, signal/function generators, oscilloscopes, a Hall effect apparatus, lasers, spectral lamps, photoelectric effect apparatus, Geiger-Muller tubes, radiation counters, h/e apparatus, Frank Hertz apparatus, ein band apparatus, spectrometers, interferometers, X-ray machines, a Millikan oil drop apparatus, heat engines/gas law apparatus, a thermal expansion apparatus and an adiabatic gas law apparatus. The biology laboratories are equipped with the latest inverted and compound microscopes, a microtome, an autoclave, a laminar flow sterile hood, PAGE and agarose electrophoresis equipment, cryostat and microtome units, a workstation with a computer connected to digital microscope cameras, a growth chamber, IDEXX Colilert and a manifold filtration unit for microbiological analysis, a gel documentation system, a UV trans-illuminator, refrigerated microcentrifuges, a trans-blot semi-dry transfer apparatus, a gel dryer, CO2 cell incubator, -80 °C freezer, a tissue homogenizer, and a thermocycler for DNA amplification.

Library

The AUS Library, an 11,000-square-meter state-of-the-art facility, provides collections, services and programs to support the curricular and research needs of the university community. The AUS Library provides a wide range of resources and services to meet the specialized needs of graduate students. The library has a growing collection of 130,000 items that includes reference materials, books, DVDs, and magazines and scholarly journals. In addition to its print collections, the library provides access to over 125,000 e-books, thousands of electronic journals and over 50 online databases. Through the library’s website, AUS users can search the online catalog, access databases, read e-books and full-text journal articles, and find other digital resources whether on or off campus. The website also provides instructional aids such as subject guides and tutorials to help students use the library more effectively. Library facilities include a technology-intensive Information Commons, group study rooms, media viewing rooms, and an abundance of reading and study areas. For students who need a quiet study environment, the library offers two “No Talking Zones” in which talking, whispering and mobiles are prohibited. Working with professors, AUS librarians offer hands-on workshops on performing library research, conducting a literature review, evaluating sources and websites, and using both print and electronic tools more effectively. Graduate students can recommend articles not available in the library through the interlibrary loan service. Further information regarding the library is available at http://library.aus.edu.

Research and Grants

AUS supports and promotes the research and consulting activities of its faculty members. In addition, AUS offers its students opportunities to work on faculty research projects, to present papers with faculty at international conferences and to assist faculty in developing research grants. AUS upholds its ethical responsibility to administratively review all proposed research projects involving humans as participants. All research studies at AUS involving the participation of humans must be submitted to and approved by the AUS Institutional Review Board (IRB) before any study is undertaken. For further information on the university’s research and grant opportunities, please visit the AUS website.

Research Centers

AUS has established a number of research centers as part of its commitment to research and community outreach.

Earthquake Observatory

The AUS Earthquake Observatory uses state-of-the-art equipment and software to record and analyze the region’s earthquake activity. The Earthquake Observatory also provides expert opinions on earthquake hazards and related risk in the UAE and the Gulf region; assessment of seismic hazards at construction sites and petrochemical and industrial facilities; assessment of seismic risk of existing structures and recommendations for strengthening and retrofitting; analysis and design of earthquake-resistant structures; evaluation of local site effects; preparation of seismic hazard and microhazard zonation maps; evaluation of dynamic soil properties; training workshops for engineers on the analysis and design of structures for earthquake loading; and expertise on the development of earthquake-resistant design codes.

Gulf Ecosystem Research Center

The Gulf Ecosystem Research Center (GERC) is a multidisciplinary academic research center. Its mission is to monitor and conduct research on the Gulf ecosystem, broadly defined to include land, marine, atmospheric, and biotic systems of the Gulf, United Arab Emirates (UAE) and GCC countries. GERC will offer advice on long-term solutions to ecological problems. GERC is a joint initiative of AUS and Bee’ah, Sharjah’s environmental company. In support of GERC, AUS has initiatives with Woods Hole Oceanographic Institution (Massachusetts, US) and the Center for Coastal Margin Observation and Prediction (Oregon, US).

Institute of Materials Systems

The Institute of Materials Systems (IMS) was established in 2001 based on the recommendations of GCC Ministers for Public Works and Housing to promote materials research and education. It collaborates with governmental and private sectors in areas of materials research and applications, focusing on quality control, performance, sustainability, development and use of standard procedures, and quality assurance materials used in the region. Objectives of the institute are to conduct applied research focused on materials properties and applications in harsh environments; assist governmental departments in establishing local and regional codes of practice; provide independent technical evaluation and consultation services on materials-related issues; enhance education through seminars, conferences and short courses; and establish collaboration with similar centers of excellence worldwide.

Institute of Urban and Regional Planning and Design

The Institute of Urban and Regional Planning and Design advances urban planning as it relates to the local culture and identity of the UAE and the Arab Gulf region, and promotes sustainability as integral to all activities pertinent to urban planning and urban design. The institute’s objectives are to advance production and accumulation of knowledge in urban and regional planning and urban design; develop and offer educational and training opportunities in urban and regional planning and urban design; collaborate with local governmental, not-for-profit, non-governmental and private agencies concerned with urban and regional planning and design; and establish collaboration with similar centers of excellence worldwide.

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Mechatronics Center

The Mechatronics Center leads research and development in advanced engineering systems to address high-tech technology transfer in the region. It promotes multidisciplinary research activities between faculty members and graduate students at AUS, and industry and governmental agencies that require extensive integration of instrumentation, control systems, electronics, intelligent software and computers. The Mechatronics Center offers excellent networking opportunity with leading industries in the region as well as top
across academic institutions worldwide. Areas of expertise within the center include embedded and distributed process control, remote monitoring, nonlinear and intelligent control systems, robotics and autonomous systems, unmanned vehicles and machine vision.

Strategic Communications and Media Department

The Strategic Communications and Media Department is responsible for developing, overseeing and implementing a comprehensive communication strategy for AUS. The communications plan is aligned with the university’s vision, mission and strategic directions and is designed to achieve AUS’s short- and long-term objectives by successfully targeting and communicating with key university audiences and core constituencies. The department works closely with the institution’s leadership to advance AUS’s local, regional and international positioning aspirations; actively support all aspects of its institutional advancement agenda; solidify its current favorable public image; efficiently manage its media, print and electronic communication tools; successfully engage internal and external constituents; ensure campus-wide communications discipline; and create a culture of collaborative production and effective dissemination of quality information.

Testing and Professional Development Center

The AUS Testing and Professional Development Center serves as a central point of testing for both the AUS campus and the community. The center accommodates the placement tests for newly AUS admitted students as well as university testing. The center is part of the ETS Strategic Testing Network and offers the ETS Internet-based TOEFL as well as an institutional paper-based TOEFL in addition to other testing services.

AMIDEAST, one of the region’s most prominent international testing administrators, is an AUS testing partner and has a permanent office on the AUS campus to administer TOEFL tests (paper-based) on a regular basis, as well as other recognized international tests. For more information, visit http://www.aus.edu/testingcenter.

University Health Center

The University Health Center (UHC) provides primary health care services to all AUS students, faculty, staff members and their dependents. The center is open Sunday—Thursday from 8:30 a.m. to 4:30 p.m. and also provides 24-hour emergency care. Depending on the severity of the illness, patients are referred to a hospital for further treatment if required. Great emphasis is placed on making the campus a healthy and safe place to study, work and live through providing preliminary physical examinations to all students and employees as a mandatory part of registration/employment process, followed by continued quality care throughout their time at AUS, including sport team fitness checks.

The UHC is staffed with a qualified medical team, which includes general practitioners, a clinical counselor and registered nurses. The UHC is equipped with an observation room (day care) to closely monitor patients for short stays before transferring to a hospital if required. The UHC has access to an on-campus laboratory and pharmacy to assist in serving the AUS community. There is an ambulance on standby 24 hours a day on campus.

Health Education Programs

As part of an educational institution, the UHC plays an active role in educating the university community and promotes on-campus health and wellness activities throughout the academic year. UHC programs include and awareness campaigns on health-related issues such as first-aid training and CPR courses, substance abuse and mental health.

Health Insurance Plans for Students

Health insurance is available for graduate students. Two plans are provided. For information, visit www.aus.edu/healthcenter.

University Sports Complex Facilities

The Sports Complex includes basketball, tennis, squash and volleyball courts, multipurpose halls and exercise and gymnastic halls for use in both organized sports and free recreation; a 50-meter swimming pool; saunas; a fitness center with free weights and exercise machines; and an exercise hall for aerobics, table tennis and martial arts events, all located indoors. Close to the main complex are six tennis courts, two basketball and two volleyball courts; a soccer field; a cricket ground; a cricket practice net; and a baseball field.

The AUS athletic facilities are available for the benefit of the entire AUS community. The Student Athletics and Recreation Department fosters the continuing development of collegiate sports in the UAE through organizing and hosting athletic championships, symposia and training in sports and fitness. Students, staff and faculty members are entitled to free participation, regardless of their abilities, in a variety of sports and leisure activities including fitness training, football, basketball, badminton, handball, volleyball, table tennis, tennis, squash, track and field games, martial arts and other athletic pursuits.

Details on the AUS sports facilities are available in the Student Handbook and at www.aus.edu/osa/athletics.

Student Life on Campus

Code of Conduct

American University of Sharjah is a community of individuals living, working and studying together in order to create the ideal conditions for learning. Mutual respect and responsibilities are imperative if each individual is to flourish and grow in this environment.

In order for the purpose of the university and its community to be realized, the rights, responsibilities and reasonable standards of conduct essential to a university community must be delineated. The legally established principles, rules and regulations of the university constitute the basic standards and guidelines for conduct on and off campus. The Office of Student Affairs (OSA) establishes and enforces those rules and regulations.

The full text of the Student Code of Conduct is provided in the Student Handbook and at www.aus.edu/osa/codeofconduct.

As part of OSA, Judicial Affairs is responsible for educating students about their rights and responsibilities, creating awareness within the AUS community about the Student Code of Conduct, and implementing the code in a fair and consistent manner. Allegations of misconduct under the Student Code of Conduct are resolved by Judicial Affairs in a manner consistent with the core values of fairness, honesty and integrity.

Judicial Affairs is located on the first floor of the Student Center in offices A254–256 and 233–234.

Judicial Affairs also offers mediation services, which assist students in resolving conflicts through mediation. Students are trained in mediation and awarded a certificate on successful completion of mediation sessions.

For more information, please refer to the Student Handbook or visit www.aus.edu/osa/judicialaffairs.

Community Services

AUS Community Services is a link between students and the various needs found in society. Community Services allows students to experience first-hand the value of serving others through charity, awareness and outreach programs. It involves them personally in community events that enrich their life experiences. Community Services coordinates a variety of volunteer programs and strongly encourages students to contribute to the
development of new ones. Current volunteer programs are listed in the Student Affairs section of the university website and in the Student Handbook. Students who are interested in learning more about these programs should visit the Community Services Office located in the Student Center (office A222), call 515 2794 or email osacom-services@aus.edu.

Cultural Events

Drama performances and musical events, ranging from classical and regional to jazz and rock, are brought to campus through the Student Recreation, the Student Clubs and organizations, Student Affairs Office, the Community Events Committee. For more information, visit www.aus.edu/events.

The Performing Arts Program also presents a wide array of student productions in theatre, dance and music in the Arts Building rotunda. For more information, contact atassa@aus.edu.

Graduate Student Employment Opportunities

AUS offers graduate students several employment/learning opportunities on campus: employment through graduate assistantships, as research assistants on faculty research projects (both internally and externally funded grants) and as work-study students. For more information, please refer to the Graduate Student Employment folder available on iLearn and accessible using the following path: iLearn-Community-Office of Research and Graduate Studies (ORGS)-Graduate Studies.

Office of Student Affairs (OSA)

The mission of the Office of Student Affairs is to provide high-quality services and programs facilitating informal learning that is in congruence with the Middle Eastern culture; complements formal learning; and promotes aesthetic, ethical, intellectual, personal, social and talent growth in a safe environment.

The Office of Student Affairs is responsible for making student life interesting and noteworthy at AUS. Student Affairs transforms student life with a purpose, engaging students in activities outside the classroom. Student involvement in OSA-initiated activities enables them accomplish their personal and educational goals. Students are engaged in diverse programs, activities and events and provided services through Student Athletics and Recreation, the Student Clubs and Organizations Office, the Community Services Office, the Student Employment Office, the Student Multicultural Learning Program, the Student Leadership Program, Student Residential Life, Student Learning and Counseling Services, and Judicial Affairs. More information on Student Affairs is available at www.aus.edu. You can also visit the Office of the Vice Chancellor for Student Affairs (M-217 on the Second Floor of the Main Building), call 06 515 2166 or email studentaffairs@aus.edu.

Residential Life

The main objective of the Student Residential Life Department of OSA is to support and complement the mission of the university and its academic programs by creating a comfortable and safe environment that contributes to the success of resident students’ educational progress and personal growth. The AUS residential halls offer a unique multicultural environment in which students from different parts of the world can learn from one another. Because residential hall living is seen as a positive educational experience, students are encouraged to live on campus. Living on campus complements the overall learning experience by fostering independence and tolerance of others in students. Furthermore, living on campus allows students to make the most of what AUS has to offer, such as sports and dining facilities, the library and laboratories; it also gives students convenient access to the many activities that take place during the day and in the evening. The university offers a convenient bus service between the residential halls and other areas on campus.

The residential halls for male and female students are completely separate. All hall residents are expected to spend every night in the halls. To ensure the security of all students, the residential halls are protected by security patrols. Residential halls staff members are available around the clock for the safety and comfort of all residents. Regulations for the residential halls are available in the Student Handbook and on the university website. Priority in room allocation is given to undergraduate students.

Student Athletics and Recreation

The Office of Student Affairs believes that students should have ongoing opportunities to develop their talents through a wide variety of sports. To achieve this goal, full-time and part-time coaches and trainers are available in the Student Athletics and Recreation Department to help students develop team play, sportsmanship and healthy lifestyles. A variety of programs are available, featuring both team and individual sports, and fitness and leisure activities, which offer broad-based competitive and instructional programs for both genders. Details on the university’s sports facilities are available in the Student Handbook and at www.aus.edu/osa/athletics.

The university’s intramural sports program complements students’ academic, social and cultural education. Involvement in intramural sports activities allows students to develop new friendships and enjoy the benefits of exercise.

In line with its continuous endeavor to foster collegiate sports in the UAE, the Student Athletics and Recreation Department offers students the opportunity to participate in collegiate sports championships, symposia and training courses it organizes and hosts.

Student Center

The Student Center plays an important role in the extracurricular life at the university by serving as a central hub for student activities. It is primarily dedicated to serving the cultural, social and recreational interests of the student body as well as to providing students with a comfortable and inviting atmosphere to unwind.

The Student Center is more than just a place for students to socialize and relax; the Student Development and Organization Department’s (SDOD) offices are located at the center to provide students with non-academic support services and facilities under one roof. Student Center provides a wide array of amenities and facilities. These include an information desk, a meeting room, club offices, lounges, and a multipurpose room.

SDOD manages the Student Center facilities and all events and activities that take place at the center throughout the year.

Student Council

His Highness Sheikh Dr. Sultan Bin Mohammad Al Qassimi strongly encouraged AUS students to establish a Student Council in order to ensure student representation on campus. The Student Council’s Constitution and bylaws are amended by the council, and approved and endorsed by the Vice Chancellor for Student Affairs and Chancellor.

The AUS Student Council is an elected body that articulates student views and interests in the university. The Student Council is a vehicle for ensuring that students can have a voice in formulating university priorities and policies. It also provides a structure for greater student involvement on campus. The Vice Chancellor for Student Affairs advises the Student Council. For information, please see the Student Handbook or visit www.aus.edu/osa/studentcouncil.
Student Development and Organizations Department (SDOD)

Student Development and Organizations Department (SDOD) promotes student intellectual growth, skills and all-round personality development by engaging them in multicultural programs, registered student organizations, volunteer programs, student employment, and varied events and activities locally, regionally and internationally. SDOD offers resources and services that aid student participation and development and builds university reputation through student achievements. For more information, please see the Student Handbook or visit www.aus.edu/osa/studentorganizations.

Student Leadership Programs

The Student Leadership Program (SLP) fosters ethical leadership and offers a wide range of opportunities that develop students’ leadership, personal and communication skills and prepares them for a lifelong commitment to leadership and citizenship. The Student Leadership Program offers various leadership enrichment programs. SLP engages students in local, regional and international conferences and Model United Nations programs that aid in the development of character, public speaking skills, confidence, mindset and overall leadership capabilities.

The Student Leadership Program is located in the Student Center, First Floor, A249, 250 and A239. For more information visit www.aus.edu/osa/leadership_program, email osaslsp@aus.edu or call 515 4772.

Student Multicultural Learning Program

The Student Multicultural Learning Program is for students to gain firsthand knowledge of cultural diversity and expand their understanding of the cultural, historical and sociological backgrounds of the UAE and of other countries around the world. Besides cultural diversity, students also learn about diversity in business, government, politics and lifestyle that exist in other societies around the globe. For more details visit www.aus.edu/osa.

Student Organizations

Student-sponsored organizations are an integral part of the learning process at most institutions of higher education. The academic experience is enriched by participation in activities that allow students to pursue their personal interests outside the classroom while providing opportunities for leadership development and for involvement in university life.

The Student Development and Organizations Department is the central support for the numerous student organizations on campus. Its role includes supervising and providing assistance with program planning and implementation.

The student organizations at AUS span a wide range of interests and reflect the varied cultural/ethnic/national backgrounds of AUS students. Interest-oriented and ethnic/national clubs organize numerous professional and cultural activities throughout the academic year and play a vital role in fostering a rich multicultural environment on campus. For a complete listing of student clubs, visit www.aus.edu/osa/studentorganizations.

Participation in student organizations is strongly encouraged. Students are also encouraged to form organizations/clubs that promote their interests and hobbies.

Student Publications

Practical writing experience is available to AUS students through three student publications, the Leopard, Realms and Arabian Leopard. Students interested in contributing to or working on these publications should contact the Student Development and Organizations Department for further information.

Students with Physical Challenges

Student Learning and Counseling Services provides assistance to AUS students who are physically challenged. Students who need further information should contact Student Learning and Counseling Services in the Student Center (offices A202–207) or call 515 2732.

Student Educational Services

Cisco Academy

AUS hosts a Cisco networking academy in the College of Engineering. The academy trains students and professionals to design, build and maintain computer networks and prepares them for industry-standard certification. For more details, see the College of Engineering section of this catalog or visit www.aus.edu/cent/cisco or email ciscoacademy@aus.edu.

Learning and Counseling

Student Learning and Counseling Services (SLCS) offers support services to enhance the success of students. These services include assisting with academic growth, educational and career goals, problem solving, decision making, understanding and appreciation of oneself, and interpersonal relationships.

Counseling

SLCS provides different types of counseling services: individual counseling, group counseling, couples counseling, crisis counseling, family therapy and personality testing.

SLCS also offers private consultation for students, faculty members and staff members who would like advice about how to help a student through a difficult time.

Counseling is strictly confidential. The information shared with a counselor will not be disclosed to another individual or organization without the written consent of the student. Services are free, voluntary and available to all undergraduate and graduate students currently enrolled at AUS.

Appointments may be arranged by calling 515 2767 or by visiting the SLCS on the first floor of the Student Center. For more information, please email SLCS on lcs@aus.edu.

Self-Help Resources

SLCS has extensive self-help resources on many subjects in the form of handouts, books, videos and links on its section of the university website. Topics include coping with stress, depression, sleep disturbance, loneliness, anxiety, eating disorders, grief and loss, substance abuse, relationship building, assertiveness, career choices, study skills, concentration and memory, motivation, time management, and test-taking strategies.

Student Workshops

Workshops are conducted throughout the academic year on topics such as time management, study skills, communication skills, anxiety and stress management, anger management, and eating and body image concerns. Workshop topics and dates are advertised around campus, or students can call to learn about future workshops. Students are encouraged to contact SLCS with ideas for future workshops.

Study Abroad

The International Exchange Office works with AUS students who wish to study at universities in other countries either for a semester or for one academic year. For information on study abroad opportunities for AUS students, please see the section entitled AUS Students Studying Abroad under Registration and Course Information in the Academic Policies and Regulations section of this catalog.

The office also facilitates the admission of international students coming to AUS to study abroad for a semester or up to one academic year. For more information on study abroad students’
admission to AUS, please see the Other Admission Categories section in Admission to Undergraduate Studies later in this catalog.

In addition to facilitating student exchanges and study abroad, the International Exchange Office also administers processes enabling faculty-led study tours, visiting scholars, visiting guests and delegations, tuition exchange programs, and the dissemination of information regarding international scholarships and internships.

Writing Center

The AUS Writing Center, located on the ground floor of the AUS Library building (room LIB 024) and in the new School of Business and Management building (room SBM 176), helps students become independent, confident writers. Available to all AUS students, the Writing Center offers one-on-one writing conferences by appointment or on a drop-in basis. Consultations may include thesis development, organization, outlining, paragraph development, vocabulary, sentence structure and mechanics. Students may visit the Writing Center to work on drafts, to do research or to work with a consultant on particular aspects of their writing. The Writing Center also offers workshops on a variety of writing topics throughout the academic year. For more information, visit www.aus.edu/cas/writingcenter.
Admission to Graduate Studies

American University of Sharjah is a center for high-quality graduate education and research as well as a resource for sustainable development and advancement for the Gulf region and internationally. Students in AUS graduate programs find career advancement opportunities and personal enrichment. These programs foster a stimulating intellectual environment of collaborative research and intellectual exchange. The university's cross-disciplinary graduate courses and specialized programs attract excellent students who pursue creative and original work under the guidance of highly qualified, dedicated faculty members recruited from the most prestigious universities in the United States, Canada and around the world.

Degree Offerings

AUS currently offers 14 programs of graduate studies leading to the master’s degree. These are:

College of Architecture, Art and Design
- Master of Urban Planning

College of Arts and Sciences
- Master of Arts in English/Arabic/English Translation and Interpreting
- Master of Arts in Teaching English to Speakers of Other Languages (TESOL)
- Master of Science in Mathematics

College of Engineering
- Master of Science in Chemical Engineering
- Master of Science in Civil Engineering
- Master of Science in Computer Engineering
- Master of Science in Electrical Engineering
- Master of Science in Engineering Systems Management
- Master of Science in Mechanical Engineering
- Master of Science in Mechatronics Engineering

School of Business and Management
- Master of Science in Accounting
- Master of Business Administration
- Executive Master of Business Administration

Application Process

Admission to all AUS graduate programs is processed through the Office of Enrollment Management/Graduate Admissions. Applicants should address all inquiries, requests for application forms and correspondence to:

American University of Sharjah
Office of Enrollment Management
Graduate Admissions
PO Box 26666
Sharjah, United Arab Emirates
+971 6 515 1000
graduateadmission@aus.edu
www.aus.edu/admissions/

To apply to a graduate program at AUS, applicants must:
- complete the official graduate application form available from the Office of Enrollment Management/Graduate Admissions or through the AUS website
- pay the application fee
- submit official transcripts and TOEFL or IELTS (Academic Version) scores to the Office of Enrollment Management/Graduate Admissions
- meet all program specific requirements as listed on the application form

Incomplete applications are not processed.

Upon receiving a complete application, the Office of Enrollment Management/Graduate Admissions determines if the applicant meets the general university requirements. For those applicants who meet such requirements, graduate admission committees within each program will review their applications and make recommendations for admission. Applicants must satisfy both general university requirements for graduate admission and specific admission criteria.

The Office of Enrollment Management/Graduate Admissions will notify the applicant of the university’s final decision. When accepted into a graduate program, an applicant will be informed of the required tuition fees and dates for advising and course registration.

Note: The AUS TOEFL code is 0526.

Application Deadlines

Applicants should submit completed application forms and all supporting documents to the Office of Enrollment Management/Graduate Admissions by the following dates:

Fall Semester 2013
August 28, 2013

Spring Semester 2014
January 8, 2014

Summer Term 2014
May 21, 2014

International Applicants

International applicants (i.e., graduates of universities located outside the UAE) are required to submit completed application forms and all supporting documents to the Office of Enrollment Management/Graduate Admissions by the following dates:

Fall Semester 2013
August 14, 2013

Spring Semester 2014
January 8, 2014

Summer Term 2014
May 21, 2014

Admitted international students who need visas for the UAE should submit the visa application form, which is included in the admission package and is available on the AUS website, at least one month prior to the first day of class.

Note: Admission is only valid for the semester for which the candidate has been accepted. If applicants do not enroll in the semester for which they have been accepted, they may request that their admission be deferred to the following semester. A written request should be submitted to the Office of Enrollment Management/Graduate Admissions.

General University Requirements for Graduate Admission

Eligibility

To be considered for admission, all applicants must meet the general university requirements for graduate admission. Some graduate programs have additional requirements. For program-specific requirements, applicants should consult the pertinent degree program listing in this catalog.

Full Admission

For full admission to a graduate degree program at AUS, an applicant must:
- hold a four-year bachelor’s degree from an independently accredited
Admission to Graduate Studies

University recognized by AUS (applicants with a bachelor’s degree obtained outside the UAE must submit an equivalency of their degree from the UAE Ministry of Higher Education and Scientific Research)

- have attained a minimum cumulative grade point average (CGPA) of 3.00 (on a scale of 4.00) or its equivalent, and 3.00 or its equivalent in 300- and 400-level courses in discipline(s) relevant to the graduate program
- have attained a minimum Internet-Based TOEFL score of 80 (an IELTS score of 6.5 or above may be considered)

Furthermore, the TESOL program also requires a TWE (Test of Written English) score of 5.

Other graduate programs may require additional specific admissions requirements. For details, please refer to the relevant graduate program section of this catalog.

Conditional Admission

Conditional admission to a graduate program may be granted to applicants who meet the following requirements:

- hold a four-year bachelor’s degree from an independently accredited university recognized by AUS
- have attained a minimum cumulative GPA of 2.50 (on a scale of 4.00) or its equivalent
- have attained a minimum Internet-Based TOEFL score of 71 (applicable to all programs except TESOL or a minimum IELTS score of 6.0)

Conditional admission applicants may also be required to meet additional specific requirements in their requested program. Applicants should consult the relevant degree program section of this catalog.

To be accorded full admission into a graduate program, a conditional admission student must:

- achieve before the beginning of the second semester the required TOEFL score for full admission (Internet-Based TOEFL score of 80) or an IELTS score or 6.5
- achieve a cumulative GPA of at least 3.00 in graduate-level courses completed in the first semester. Conditionally admitted students are not eligible to register for more than two graduate courses (a maximum of six credit hours) in their first semester of study. Students conditionally admitted to a program in the College of Engineering are required to achieve a cumulative GPA of at least 3.00 in their first two graduate-level courses.

If either provision is not met, the student will normally not be allowed to continue his/her studies at AUS.

Important: Each graduate program may assign undergraduate prerequisite courses and/or specially tailored courses for conditional admission students. Credits from these courses do not satisfy credit requirements for completing the graduate degree and are not used to calculate the graduate cumulative GPA.

Mature Students Admission

AUS may offer admission to mature students who have earned a bachelor's degree five or more years ago from an independently accredited university recognized by AUS and have a demonstrated record of significant work experience during the period since graduation.

Students granted admission as mature students must obtain a combined average of 3.00 in their first nine credit hours of credit-bearing courses completed for the master's program, as well as a combined average of 3.00 in any required bridging courses (if applicable). Students who fail to meet these conditions will not be allowed to continue their studies at AUS.

Mature students are normally not eligible to register for more than two graduate courses (a maximum of six credit hours) in their first semester of study.

Students seeking admission as mature students must consult with the Office of Enrollment Management/Graduate Admissions.

Non-degree Admission

Non-degree graduate students are those who wish to take AUS courses for academic credit but who do not seek a master’s degree. Students are admitted to AUS with non-degree status if they meet requirements for full or conditional graduate admission. Complete applications should be submitted to the Office of Enrollment Management/Graduate Admissions.

Non-degree graduate students may take a maximum of nine credit hours at the graduate level.

Non-degree graduate students who meet the requirements for graduate conditional admission may register for no more than six credit hours in their first semester of study. If all requirements are met, registration in three credit hours in a subsequent semester will be allowed. Registration in courses will be subject to approval by the relevant graduate program director. Standard graduate tuition and fees apply.

Graduate students admitted as non-degree students may request to change status to graduate degree seeking students. For details, please refer to the Change of Status section hereafter.

Transient Students Admission

Transient student status covers:

- those who have obtained their undergraduate or graduate degrees from AUS and have returned to take extra course(s) at AUS
- those who hold degrees from universities other than AUS and who want to take course(s) at AUS but not toward a degree
- AUS faculty/staff and spouses of faculty/staff who want to take course(s) for reasons other than seeking a degree

Applicants seeking transient student status at AUS must submit to the AUS International Exchange Office the complete Transient Student Application available at www.aus.edu/ixo/incomingvisiting.

Transient students may enroll in any university course for which they have the necessary academic background and qualifications. They must register for courses through the Office of the Registrar. In courses with enrollment limits, priority is given to AUS students.

Normally, a student can register as a transient student for no more than one academic year. Standard graduate tuition and fees apply.

For further information, please contact the International Exchange Office at ixo@aus.edu.

Visiting Students Admission

A visiting student is one who is not formally admitted to American University of Sharjah but is allowed to take courses at AUS for transfer back to the student’s home institution. Visiting students are not registered in the context of a semester exchange program between AUS and the student’s university. Visiting students should check with their home institutions about the transferability of AUS credits to their programs.

To be admitted as a visiting graduate student, a student must be enrolled in a graduate program at an accredited institution and be in good academic standing in his/her current institution. In addition, students must have attained a minimum Internet-Based TOEFL score of 80 or a minimum IELTS (Academic Version) score of 6.5.

Applicants seeking visiting student status must submit to the AUS International Exchange Office a complete online application accessible
Admission to Graduate Studies

through www.aus.edu/ixo/incomingvisiting and an official university transcript showing courses in progress at the time of application. To secure seats in courses, applications should be submitted by April 15 for summer and fall enrollment and November 15 for spring enrollment.

If the application is approved, registration is completed through the Office of the Registrar. Visiting students may enroll in university courses for which they have the necessary academic background and qualifications. Registration in courses is subject to approval by the relevant graduate program director. In courses with enrollment limits, priority is given to AUS students.

Students are admitted as visiting students for a maximum of one academic year, and are responsible for determining that AUS credits are transferable to their home institutions. Standard graduate tuition and fees apply.

For further information, please contact the International Exchange Office at ixo@aus.edu.

Graduate students admitted as visiting students may request to change status to graduate degree seeking students. For details, please refer to the Change of Status section hereafter.

Change of Status

Students may request a change of status (from non-degree to degree status, or from visiting to degree status) by submitting a complete application through the Office of Enrollment Management/Graduate Admissions. All admissions requirements in place at the time of the change of status request must be met.

Courses taken while under non-degree status may be accepted with the approval of the graduate program director. Grades earned in courses that are accepted will count in the cumulative GPA (CGPA). The university rules and regulations governing transfer courses and credits will apply.

Transfer Credit Policy

A graduate student may transfer up to nine graduate credits from a recognized graduate school at an accredited university to his/her program of study at AUS, depending upon program-specific rules and regulations. Such transfer credits should meet all of the following criteria:

1. The course work must:
   - be approved by the graduate program director in consultation with appropriate faculty
   - not have been used to earn another degree
   - not have been taken more than five years prior to entering a graduate program at AUS. (Some programs have more stringent time limitations on transfer credits. Consult individual program descriptions and graduate program directors for regulations.)

2. The student must have earned grade of B or higher for 500-level or 600-level courses or other courses restricted to graduate students.

Transfer credit will not be accepted for research and thesis/dissertation hours, travel experience or work/life experience.

Business administration courses will be transferred only from programs accredited by the Association to Advance Collegiate Schools of Business (AACSB) or from universities approved by the School of Business and Management.

Grades earned in transferred courses do not count in the student’s cumulative GPA (CGPA). Credit hours of transferred courses count in the cumulative earned hours and may apply towards meeting graduation requirements.

Applicants must request that credit transfers be reviewed at the time of application.
Tuition and Fees

Graduate student tuition, additional fees and housing charges are given in the tables below. Non-degree, transient and visiting students must pay the same tuition and fees as regular students.

### Graduate Tuition (in AED)

| College of Architecture, Art and Design | 3,870/per credit hour |
| College of Arts and Sciences            | 3,080/per credit hour |
| College of Engineering                  | 3,870/per credit hour |
| School of Business and Management       |                         |
| Master of Business Administration       | 3,870/per credit hour   |
| Executive Master of Business Administration | 190,000 for the complete program |

### Conditional Fees (In AED)

| Lab/Technology Fee A | Applies for each registered course that has Lab/Tech Fee Rate A noted in its course description | 1,185 |
| Lab/Technology Fee B | Applies for each registered course that has Lab/Tech Fee Rate B noted in its course description | 1,325 |

### Other Fees (In AED)

| Application Fee | 350 |
| Thesis or Project Extension Fee | 200 |
| Thesis Processing Fee | 1,000 |
| Thesis Binding Fee | 350 |
| Internship Fee | 400 |
| Deposit Payment ( MBA program ) | 500 (non-refundable, non-transferable) |
| Deposit Payment ( EMBA program ) | 17,200 (non-refundable, non-transferable) |

Health insurance is available for graduate students. The insurance fee is AED 300 per semester or AED 600 per semester (AED 150 or AED 300 per summer term), depending on the type of plan applicable to each student. Visit the University Health Center’s web page for more information on the health insurance plans.

### Student Housing Fees (in AED)

| Utilities Service Fee | Fee automatically added to any residential hall room reserved (except in summer) | 250 |
| Refundable Dorm Deposit | One-time fee applied when students first register for residential halls – refundable after cancelation | 1,000 |

<table>
<thead>
<tr>
<th>Room Type</th>
<th>Description</th>
<th>Regular Semester</th>
<th>Summer Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private</td>
<td>Single occupancy with private bath and kitchenette</td>
<td>14,900</td>
<td>5,960</td>
</tr>
<tr>
<td>Semi-Private</td>
<td>Single occupancy with a shared bath and kitchenette</td>
<td>10,550</td>
<td>4,220</td>
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<tr>
<td>Sharing</td>
<td>Double occupancy with a shared bath and kitchenette</td>
<td>5,780</td>
<td>2,310</td>
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<tr>
<td>Single</td>
<td>Single occupancy with a common bath and no kitchenette (men only)</td>
<td>5,560</td>
<td>-</td>
</tr>
<tr>
<td>Double</td>
<td>Double occupancy with a common bath and no kitchenette (men only)</td>
<td>3,230</td>
<td>-</td>
</tr>
</tbody>
</table>
Payment Methods

Tuition and fees are due each semester at or before the time of registration and form an integral part of registration. For information on the deferment of tuition and fees, please see the Deferment of Tuition and Fees section below.

AUS accepts the following methods of payment:

- cash in UAE Dirhams (AED) only
- checks drawn on local banks in UAE Dirhams (If two or more checks return due to insufficient funds, checks will no longer be accepted.)
- credit cards (including online payment)
- direct transfers to Sharjah Islamic Bank Account No. 0029-200170-001, IBAN number: AE65 0410 0000 2920 0170 001 (student’s name and ID number must be noted on transfer)

A charge of AED 500 is added if a check is returned for insufficient funds or if a credit card authorization payment is declined.

All student financial transactions with the university are processed through the Student Accounts Office located on the mezzanine floor of the Main Building. Questions concerning student accounts should be directed to the Student Accounts Office by calling 515 2282/515 2039 or sending an email to studentaccounts@aus.edu.

Deferment of Tuition and Fees

Students are expected to pay their tuition and fees or to make arrangements for deferred payment during the registration period. The deferment of tuition and fees is approved only if all of the following conditions are met:

- 60 percent of the tuition and fees have been paid by the payment deadline
- The student does not have access to checks or credit cards
- The student has a clean payment history
- The Fee Deferment Request form is completed and signed by the student and is authorized by a Finance Department official. The form is available at ww.aus.edu/admin/forms or through Students Account.

Late Fees and Fines

All university students must adhere to university deadlines, rules and regulations. Late fees and fines may apply for late book returns, parking violations, breakage/replacement charges, late tuition payment, etc.

Graduate Student Employment Opportunities

AUS offers graduate students two types of on-campus employment: graduate assistanships and graduate work-study positions. Assistantships are available to qualified graduate students and are competitively awarded and merit based.

A variety of student work-study opportunities are available through specific departments, graduate programs and AUS internal research grants to faculty members.

Information on eligibility and application guidelines is available in the Graduate Student Employment folder available on iLearn and accessible using the following path: iLearn-Community-Office of Research and Graduate Studies (ORGS)-Graduate Studies.

Sponsorship Liaison

The Sponsorship Liaison Division coordinates and communicates with external organizations sponsoring students to study at AUS.

The division provides various support services to both the sponsoring organizations and their sponsored students, including admission coordination, orientation, academic follow-up, progress reports, guidance, housing assistance and financial-related matters.

Moreover, the division is the main link for sponsors to communicate messages to sponsored students. It also coordinates the on- and off-campus annual meetings with sponsors and their students.

For further assistance and information, please contact the Sponsorship Liaison Officer, 515 1016, sponsors@aus.edu.
Academic Integrity

Student Academic Integrity Code

Academic integrity lies at the heart of intellectual life. As members of a diverse community committed to the advancement of knowledge, American University of Sharjah affirms the importance of respecting the integrity of individual work. The AUS Student Academic Integrity Code describes standards for academic conduct, students' rights and responsibilities as members of an academic community, and procedures for handling allegations of academic dishonesty. As an institution of higher learning, AUS views academic integrity as an educational as well as a judicial issue.

The first obligation of a student is to pursue conscientiously the academic objectives that he/she has chosen. Accordingly, each student is required to conform to the regulations of the university, of the college/school in which he/she has enrolled and of the classes in which he/she is registered. It is further expected that all examinations, tests, papers and other assignments will be completed according to the standards set forth in this code.

In order to establish within the AUS student body a sense of ethical responsibility, honor and mutual respect, upon matriculation every student must sign the following Academic Integrity Pledge.

I [student’s name] pledge my commitment to the following values:

- I will hold myself accountable for all that I say and write;
- I will hold myself responsible for the academic integrity of my work;
- I will not misrepresent my work nor give or receive unauthorized aid;
- I will behave in a manner that demonstrates concern for the personal dignity, rights and freedoms of all members of the community;
- I will respect university property and the property of others; and
- I will not tolerate a lack of respect for these values.

Students are responsible for becoming familiar with their rights and responsibilities as defined by the academic integrity code and for understanding the requirements for their particular courses (e.g., regarding such issues as collaborative work, use of study aids or take-home examinations, etc.). Students are also responsible for learning the conventions of documentation and acknowledgment of sources required in academic work.

Definition of Academic Violations

Members of the academic community are expected to conduct themselves with integrity as a matter of course. Certain violations of ethical conduct relate specifically to academic integrity. Academic violations include, but are not limited to, the following categories.

Plagiarism

To plagiarize is to use the work, ideas, images or words of someone else without attribution. Plagiarism may involve using someone else’s wording—a distinctive name, a phrase, a sentence or an entire passage or essay—without using quotation marks. It may also involve misrepresenting the sources that were used. The issue of plagiarism applies to all student assignments.

Inappropriate Collaboration

Close collaboration on academic work requires acknowledgment. Inappropriate collaboration involves working with someone else in developing, organizing or revising a project (such as a paper, an oral presentation, a research or design project or a take-home examination) without acknowledging that person’s help. The use of unauthorized assistance must be avoided in the production of all academic work. Specific policies regarding collaborative work, peer review, the use of tutors and editing may vary among individual professors.

Inappropriate Proxy

Students must attend their own classes and be present for all examinations. Those impersonated and impersonators will be suspended or dismissed from the university.

Dishonesty in Examinations and Submitted Work

All academic work and materials submitted for assessment must be the sole original work of the student, unless otherwise directed by the instructor. Communication is not allowed between or among students, nor are students allowed to consult books, papers, study aids or notes without explicit permission. Cheating includes, but is not limited to, copying from another's paper, giving unauthorized assistance, obtaining unauthorized advance knowledge of examination questions, and the use of mechanical or marking devices or procedures for the purpose of achieving false scores on machine-graded examinations. Specific policies regarding examinations may vary with individual professors. Students are prohibited from submitting any material prepared by or purchased from another person or company.

Work Completed for One Course and Submitted to Another

Students may not present the same work for more than one course. Under exceptional circumstances, faculty members may permit a significant piece of research to satisfy requirements in two courses. However, both professors must agree in advance to this arrangement. Students are reminded that when incorporating their own past research in current projects, they need to reference such previous work.

Deliberate Falsification of Data

Students may not deliberately falsify data or distort supporting documentation for course work or other academic activity.

Interference with Other Students’ Work

Students may not intentionally interfere with the work of others, such as sabotaging laboratory experiments, research or digital files, or by giving misleading information or disrupting class work.

Copyright Violations

Copyright laws must be observed. These laws govern practices such as making use of printed materials, duplicating computer software, duplicating images, photoduplicating copyrighted materials and reproducing audio/visual works. The academic integrity code prohibits theft and the unauthorized use of documents and requires adherence to the laws of Sharjah and the federal laws of the UAE.

Complicity in Academic Dishonesty

Complicity in academic dishonesty consists of helping or attempting to help another person commit an act of academic dishonesty or willfully assisting another student in the violation of the academic code of integrity. Complicity in academic dishonesty is pre-meditated and intentional. This can include, but is not limited to:

- doing work for another student
- designing or producing a project for another student
• willfully providing answers during an exam, test or quiz
• communicating with another student on a computer, mobile phone or other device while taking an exam
• providing a student with an advance copy of a test
• leaving inappropriate materials behind at the site of an exam or test
• altering outcome results

Adjudication of Academic Offenses

Jurisdiction

Academic cases resulting from alleged violations of the university’s academic integrity code are within the jurisdiction of either a faculty member or the dean (or appointed designee) of a college/school.

Faculty members who wish to bring charges against students should do so through the dean (or appointed designee) of the college/school in which the alleged academic integrity code violation occurred. Students who wish to bring charges against other students must do so through the faculty member in whose course or academic activity the alleged academic integrity code violation occurred. The student who brings the charges must identify himself/herself to the faculty member.

Violations of the academic integrity code that involve admission and/or placement testing falling within the jurisdiction of an ad hoc committee that is called upon when such violations are reported and could result in the revocation of admission or dismissal from the university.

The Adjudication Process

One of two procedures may be followed in the adjudication process. The first grants authority to the faculty member to exercise discretion in those cases involving a student’s judgmental error rather than willful dishonesty. The second grants jurisdiction to the dean of the college/school in which the alleged violation has occurred.

1. Faculty Authority

If a faculty member is convinced that an alleged offense has resulted from an error in judgment on the student’s part rather than from purposeful dishonesty, the faculty member may decide to use the occasion for instructing the student on acceptable standards for academic work. In such cases, the faculty member may, for example, require the student to rewrite or correct the original assignment or to submit a substitute assignment.

When faculty jurisdiction is exercised in the case of an unintentional violation of the Student Academic Integrity Code, the faculty member shall send written notification of the event to the dean of the college/school in which the offense has occurred. When the student is enrolled in another college/school, the dean who receives the notification will then notify the student’s dean that the offense has occurred. Through this process, the university can monitor multiple occurrences of such errors of judgment by particular students.

2. Dean’s Jurisdiction

In all other circumstances, the following procedures will be observed:

a. Faculty members reporting an allegation of dishonesty must do so within 10 working days of the date of discovery of the alleged offense. The report should be supported by such documentation as is appropriate and delivered to the college/school dean.

b. The college/school dean will promptly notify the student of the charge and will arrange a meeting to discuss the charge with the student. The dean will also notify the head of the department or unit in which the offense occurred, and the student’s dean if the student is a member of another college/school, that an allegation has been made.

c. At the meeting, the student will be presented with the charge and the evidence submitted by the faculty member. He/she will be advised of the procedures, including his/her rights, and given the opportunity to respond. The student may respond immediately or respond in writing within five working days. The signed document will become additional evidence in the case. If the student fails to attend this preliminary meeting, the dean may proceed with the process as appropriate.

d. Faculty members, at their discretion, may discuss the alleged case of dishonesty with the student before the case is adjudicated. However, faculty members are not to submit grades for the work in question or for the course until the case has been adjudicated. If the semester grades are due before the adjudication process is complete, a temporary grade of N will be assigned.

e. When appropriate, the dean hearing the case will gather additional evidence from the student, the complainant and other concerned parties before the adjudication process.

f. After reviewing the charges and the evidence, the dean hearing the case may dismiss the case or refer the case to the faculty member bringing the charge. For cases not dismissed or referred, the dean may assign a penalty. The dean may request a meeting with the student at any time.

Other Adjudication Issues

While the assignment of penalties is the province of the dean hearing the case, the faculty member making the charge may recommend a grading penalty or other sanctions.

If the student fails to attend a scheduled meeting regarding such changes, the date of which will be made known in advance to him/her, the college/school may hear the case in the student’s absence or move for a continuance.

Legal counsel is not permitted at any point during the adjudication process.

The standard of proof for any instance of academic dishonesty will be clear and convincing evidence.

Penalties

Students are advised that violations of the Student Academic Integrity Code will be treated seriously, with increasingly severe penalties considered for repeat offenders.

1. In assigning a penalty, the dean will take into account both the seriousness of the offense and any particular circumstances involved. A second violation may result in suspension or dismissal.

2. Penalties for an academic offense may include one or more of the following:

a. resubmission of the work in question

b. submission of additional work for the course in which the offense occurred

c. a lowered grade or loss of credit for the work found to be in violation of the integrity code or a lowered overall grade for the course (to be specified at the time that the penalty is assigned)

d. a failing grade of XF for the course in which the offense occurred

e. suspension for one or more academic terms, including the term in which the offense occurred

f. dismissal (for a specified term or permanently) from the university

3. Penalties (a)–(c) are levied by the dean hearing the case. Penalties (d)–(f) are levied by the dean.
hearing the case only with the concurrence of the student’s dean as applicable. If consensus cannot be reached, the Provost or his/her representative will adjudicate.

4. Penalties (d)–(f) will become a permanent part of the student’s file maintained indefinitely by the Office of the Registrar, with appropriate notation indicating that there has been a violation of the Student Academic Integrity Code.

5. Penalties (c)–(e) will result in non-academic sanctions that may include prohibition from extracurricular activities and the loss of athletic scholarships. See the AUS Student Handbook for details.

6. The student must remain enrolled in the course in which an infraction has been reported until the hearing is conducted. No refund or cancellation of tuition fees will be permitted in such cases.

7. Students with a record of sanctions resulting from violations of the Student Academic Integrity Code or Student Code of Conduct will not be eligible for the Dean’s List.

8. The student may petition to replace an XF grade resulting from a category (d) penalty with an F grade at the time of graduation or following complete withdrawal from the university. For details, please refer to the Appeal of an XF Grade section under Student Petitions and Appeals.

Suspension and Dismissal

The decision as to whether suspension or dismissal is appropriate in a given instance will necessarily depend on the circumstances of each case.

Suspension

Suspension is effective for not less than the term in which the sanction is taken or for not more than one calendar year. The length of a suspension is to be specified precisely at the time the action is taken.

A student who is suspended is entitled to resume studies in the same college/school at the conclusion of the period of suspension, provided he/she has satisfied all requirements imposed by the dean hearing the case when the original action was implemented. The student must submit a Reactivation Form to the Office of the Registrar. The form is available www.aus.edu/registration/forms.

Courses completed outside AUS while on suspension do not transfer.

Dismissal

Dismissal is invoked in cases of serious infractions of rules and regulations and when circumstances indicate that a student’s association with the university should be terminated in the interest of maintaining the standards of behavior and conduct normally expected in a university community. In instances where the dean hearing the case has recommended dismissal, the Academic Appeals Review Committee will review the case and make a recommendation to the Provost.

A student who has been dismissed but who has not been denied the privilege of returning to the university later may apply for readmission through the Office of Enrollment Management/Graduate Admissions after the expiration of one calendar year. Action will be taken on the application after a total re-evaluation of the record and in accordance with the admission and readmission practices in effect at the time of application. A readmitted student is governed by the admission requirements in effect at the time of readmission.

Courses completed outside AUS while dismissed do not transfer.

Note: The calendar year that must elapse before a Reactivation Form or an application for readmission may be considered is interpreted as beginning on the final day of the term during which the disciplinary action was taken.

Notification of Penalty

The dean hearing the case will notify the student in writing of the findings and, if applicable, the assigned penalty. The faculty member bringing the charge will also be notified in writing of these results, as will the head of the department in which the case occurred and the student’s dean if the student is enrolled in another college/school.

In addition to the above and for penalties (d)–(f), the following notification process will apply:

- For penalty (d), the dean hearing the case will inform the Office of the Registrar.
- For penalty (e), the dean hearing the case will inform the student’s dean who will, in turn, notify the Office of the Registrar as well as the Vice Chancellor for Student Affairs and take the appropriate academic action.
- For penalty (f), the dean hearing the case must inform the Vice Provost for Research and Graduate Studies in writing within five working days of the date of the notice. The Vice Provost for Research and Graduate Studies will refer the case to the Academic Appeals Review Committee, which will review it and make a recommendation to the Provost. The Provost will inform the dean hearing the case, the Vice Provost for Research and Graduate Studies, the Office of the Registrar and the Vice Chancellor for Student Affairs of the final decision.

Appeal of Penalty

In cases concerning notation to the student’s record [penalties (d)–(f)], students will be notified in writing of their right of appeal. Appeals must be made in writing within five working days of the date of notice. Appeals are limited to grounds of excessive sanction, improper procedure and unavailability of relevant evidence at the time of the original administrative or code of conduct review panel meeting. Appeals must be submitted to the Vice Provost for Research and Graduate Studies. The Office of the Vice Provost for Research and Graduate Studies will review the appeal and may consult the case’s written record, the appeal request and any person involved in the adjudication process. Following the review, the Office of the Vice Provost for Research and Graduate Studies may deny the appeal or may lower the sanction or remand the matter to the appropriate dean in the event of improper procedure or new evidence.
Student Records

Custody of Records

All transcripts and other documents students submitted from other institutions at admission time or later are the property of AUS, and, as such, are part of the student record that is under the custody of the Office of the Registrar. The university is not required to provide (or allow the making of) copies of these documents. Transcripts submitted to AUS for admission or credit transfer cannot be returned to the student or forwarded to other institutions.

Student Privacy Rights

Students have the right to:

- inspect and review information contained in their educational records. The university is not required to provide (or allow the making of) copies of these documents. The university allows, nevertheless, copy making of very specific documents included in a student’s record. Copies of such documents will only be provided upon submission of a signed request from the student concerned. The request form is available at www.aus.edu/registration/forms. A nominal fee applies. The university will issue only complete transcripts, not parts of the student record.

- request changes or updates to their personal data. Registered students are given access to update their emergency telephone/mobile contact numbers and their personal email address via the secured online student information system. For mailing address updates, an official request signed by the student concerned has to be submitted to the Office of the Registrar/Student Records section. The form is available at www.aus.edu/registration/forms.

- request non-disclosure, within the extent of UAE federal and local laws, of personally identifiable information from education records. The university reserves the right to disclose students’ records to the immediate guardian of the student and to the private or public authority sponsoring the student. For further information on students’ records, please check with the Office of the Registrar/Student Records section.

Academic Transcripts

A permanent record reflecting the academic achievements of each student who registers at the university (also referred to as a “transcript”) is maintained by the Office of the Registrar. At the end of every semester, the Office of the Registrar issues updated transcripts for all the students who were registered for the semester. These transcripts are mailed to every individual student. These copies are not official and are only intended to update students on their academic achievement. Students may also access their transcripts through the secure online student information system. Students are encouraged to review their records online periodically.

Students may obtain copies of their academic transcripts at AUS from the Office of the Registrar. Transcripts will only be released with a signed request from the student concerned. The request form is available at www.aus.edu/registration/forms. A nominal fee applies. The university will issue only complete transcripts, not parts of the student record.

An explanation of the university’s grading system is included in the Grades and Academic Standing section herein. A brief explanation is also provided on the back of every official transcript.

Records on Academic Integrity Code Violations

The retention of records on academic integrity code violations is governed by the following:

- In cases where penalties (a)–(c) were assigned: All records pertaining to the infringement of the code are maintained by the student’s college/school. If the student does not graduate from AUS, the records are retained for five years after the student’s last registration. If the student graduates from AUS, these records are destroyed by the college/school upon the student’s graduation.

- In cases where penalties (d)–(f) were assigned: The notation indicating a violation of the Student Academic Integrity Code will become a permanent part of the student’s file maintained indefinitely by the Office of the Registrar. Upon graduation, all records pertaining to the violation of the Student Academic Integrity Code that were maintained by the college/school will be transferred to the Office of the Registrar for permanent retention. If the student does not graduate from AUS, all records pertaining to violations of the academic integrity code will be retained by the college/school for five years after the student’s last registration at AUS and then transferred to the Office of the Registrar for permanent retention.

Records on Student Academic Integrity Code violations maintained by the Office of the Registrar are subject to university regulations concerning the confidentiality of student records. Upon written request, students have the right to inspect their records related to violations of the integrity code.

Enrollment Verifications and Certifications

Students may need different types of official certificates pertaining to their academic record at AUS. These certificates must be requested from the Office of the Registrar using the request forms available at www.aus.edu/registration/forms. A nominal fee applies.
Registration and Course Information

Registration

Orientation Program

Prior to registration, each college/school holds an orientation session to familiarize students with its specific regulations and assist them with the registration process. These sessions are also to inform the students about potential research/project areas available within the program.

Academic Advisors

Academic advising is an essential element of the educational process. American University of Sharjah requires advisor–student conferences at least once per semester. Students are assigned academic advisors who help them in planning their schedules. However, students are responsible for selecting their courses, meeting course prerequisites and adhering to the most recent university policies and procedures. The advisor assists the student in interpreting university policies and procedures. Students are required to consult with their advisor on issues regarding degree requirements. Some programs require that students have a graduate advisory committee, which has specific responsibilities identified by each graduate program in accordance with university policy.

Registration Process

Before the registration period begins, the Office of the Registrar posts the registration guide at www.aus.edu/registration. The guide provides pertinent information and indicates the registration steps along with the place, date and time for each step. A continually updated list of courses offered is posted on the online student information system as well.

Students must register in a course prior to attending classes. It is the responsibility of the individual student to monitor his/her registration status, which may be done by accessing his/her records through the AUS website.

Students who register after the designated date are charged a late registration fee.

Continuing and returning students register through the website. New students and transfer students register with their respective college/school. Non-degree, transient and visiting students register with the Office of the Registrar.

Registration in courses as a non-degree or a visiting graduate student requires the approval of the relevant graduate program director.

Registration by way of proxy is not permitted.

New and transfer students must ensure that all documents required for finalizing their admission, particularly those indicated in the letter of admission, are submitted to the Office of Enrollment Management/Graduate Admissions before registration begins. Transfer students must complete their transfer file and be awarded transfer credits before the end of their first semester at AUS.

Thesis and Final Project Registration

See Thesis and Final Project Registration within the Graduation section herein.

Student Course Load

Good Academic Standing

The normal student course load for a full-time graduate student in good academic standing is nine credit hours per semester. The graduate program director/coordinator may approve a student in good standing to register for up to 12 credit hours per semester.

Academic Probation

The course load of a full-time graduate student on academic probation is six credit hours.

Summer Term Registration

A maximum total of six credit hours is allowed during a six-week summer term. The program director/coordinator may further restrict the maximum credit hours of a probation student in a summer term. A graduate student may not register for more than three credit hours of thesis/final project during a six-week summer term.

Conditional Admission

Conditionally admitted students are not eligible to register for more than two graduate courses (a maximum of six credit hours) in their first semester of study.

Mature Students Admission

Students admitted as mature students are normally not eligible to register for more than two graduate courses (a maximum of six credit hours) in their first semester of study.

Auditing Courses

A graduate student who wishes to attend a course but who does not wish to participate, take examinations, receive a final grade or receive credit for the course may register to audit the course with the permission of the instructor and the graduate program director/coordinator. The instructor may establish standards of class participation and attendance that must be met if a student is to remain in audit status.

Graduate students may audit an undergraduate course with the permission of the instructor and the graduate program director/coordinator.

Registration is managed through the Office of the Registrar. In courses with enrollment limits, priority is given to students registering for credit.

The audited course will appear on a student’s transcript as audited. Tuition and fees for audit students are the same as those for students registering for credit.

Changes to or from audit status must be made before the last day of the add and drop period.

Registration in Independent Study Courses

Independent study is the umbrella term used to label two types of independent work: an independent course and directed study.

Students are allowed to take one independent study. A second independent study, for a maximum total of eight credit hours used toward the graduation requirements of one degree program, could be approved by the student’s graduate program director/coordinator for graduation purposes only.

In order to be eligible to pursue an independent study, students must be in good academic standing.

An independent study should not be used to meet major requirements, core requirements, concentration requirements or foundation courses requirements.

Students interested in registering for an independent study course must complete the Independent Study Application form available at www.aus.edu/registration/forms and submit it to the Office of the Registrar during the early registration period of the upcoming semester/term.

Registration is handled by the Office of
the Registrar. Tuition and fees for independent study courses are the same as those for other courses. Independent study courses are graded and appear on the student’s transcript.

Independent Course (1 to 4 credits)
An independent course is listed in the catalog but offered in an independent study format. The course is coded using the course number in the catalog. Students are not allowed to repeat courses in an independent course format.

Directed Study (1 to 4 credits)
A directed study is an investigation under faculty supervision beyond the scope of existing courses. Directed study courses are numbered as 596 or 696. The three-letter course prefix reflects the field of study of the course.

Summer Courses outside AUS
Requirements
An enrolled student is eligible to apply to take courses at another college/university during the summer with the aim of transferring credits to AUS provided to following conditions are met:

- The student must be in good academic standing at AUS at the time that the application is reviewed. The student must be in good academic standing at AUS at the time that the courses are taken at the host university.
- The summer courses at the host university must not be taken as attempts to repeat AUS courses in which an F grade was previously earned.
- The host university must be located outside the UAE.
- The host university must be recognized by the UAE Ministry of Higher Education and Scientific Research.
- The host university must provide learning experiences similar to those offered by AUS.
- Contact hours for courses at the host university must be equivalent to or greater than the contact hours required for equivalent courses at AUS.
- The language of instruction of the course(s) taken at the host university must be English, except for foreign language courses conducted in other languages. Certified translations of syllabi or other relevant material may be required.
- With the consent of the relevant graduate program director, a student taking summer courses at colleges and universities recognized by the United States Department of Education Regional Accreditation Authorities and the UAE Ministry of Higher Education and Scientific Research or an Official AUS Exchange Partnership may take course(s) at the host university that are taught in languages other than English. Such courses must be determined to be equivalent in content to AUS courses or approved to meet specific degree requirements. Certified translations of syllabi or other relevant material may be required.
- Business administration courses will be transferred only from programs that are AACSB accredited or from universities approved by the School of Business and Management.
- A graduate student may transfer up to nine graduate credits from a recognized graduate school at an accredited university.
- Some programs may reserve the right not to allow for any courses to be taken at another college/university.

Amount of Credit
- Students may normally transfer no more than six credit hours for a six-week summer session conducted at a host university.
- For summer sessions of shorter duration, AUS normally allows no more than one credit hour per week of instruction (e.g., no more than three credit hours for a three-week session).
- Students may register for more than one summer session between spring and fall semesters with approval of the relevant graduate program director/coordinator. Students may not be concurrently registered in more than one summer term.
- A college/school may place further restrictions on the allowable maximum number of credits. Students must consult with the relevant graduate program director/coordinator when planning for summer courses outside AUS.

Application Process
Prior to registering for courses at the host university, students must complete the Summer Permission to Take Courses Outside AUS form available at www.aus.edu/registration/forms and submit it to the Office of the Registrar. Credits will not be awarded if the completed form is not submitted to the Office of the Registrar prior to registration in summer courses.

All courses must be approved by the relevant graduate program director/coordinator prior to registration in summer courses.

For information on visas and other related issues, please contact the International Exchange Office at ixo@aus.edu.

Transfer of Credits
Credits earned in summer courses taken outside AUS will transfer provided the following conditions are met:

- Upon completion of the course(s) students must submit to the Office of the Registrar an official transcript from the host university demonstrating that the minimum course passing grade requirement indicated on the permission form was met.
- The student was in good academic standing at AUS at the time summer courses are taken at the host university.

Grades earned in summer courses completed outside AUS do not count in the student’s cumulative GPA (CGPA). Credits of transferred courses count in the cumulative earned hours and may apply towards meeting graduation requirements.

For further information related to transfer of credits, please contact the Office of the Registrar.

Mature, Non-degree, Transient and Visiting Student Registration
See the corresponding sections under Admission to Graduate Studies.

Tuition and Fees
Please refer to the Tuition and Fees section of this catalog for specific information on tuition, fees, deferment of tuition, and fees and payment methods.

Add and Drop
Students are allowed to add and/or drop courses at the beginning of every semester/term. The add and drop period begins on the first day of class. The duration of the add and drop period may vary, and the actual dates are published in the registration guide for each semester/term, which is available at www.aus.edu/registration.

Courses dropped during the add and drop period are not recorded in a student’s transcript. The semester tuition is recalculated accordingly with no fee penalty charged. Students interested in adding and/or dropping courses should first consult with their respective advisors.

Students who register for a course and do not attend it may be automatically dropped. Students who are automatically dropped will not be eligible for a tuition refund or
adjustment.

Attendance and Lateness

Attendance and participation in all class, workshop and laboratory sessions are essential to the process of education at AUS. Students benefit from the lectures and discussions with their instructors and fellow students. For this reason, students are expected to attend class regularly.

Lateness or absence hinders progress for the individual and the class and affects the student’s academic achievement.

Course Withdrawal

Students may withdraw from courses without grade penalty by submitting the Withdrawal Form (available at www.aus.edu/registration/forms). The student must submit the form in person to the Office of the Registrar.

Withdrawal from courses must occur no later than the end of the withdrawal period. A grade of W will be recorded on the transcript for the course from which the student has withdrawn. A W grade does not impact the student’s GPA.

As of the end of the withdrawal period and up to the last day of classes, a grade of WF will be recorded for those who withdraw from a course. The student will receive 0.00 grade points (F grade) for the WF, and this will be used in calculating the student’s GPA. Furthermore, as of the end of the withdrawal period, faculty members may assign a WF for excessive absence.

If a student with a documented medical condition (e.g., operation, hospital stay, serious illness, etc.) is withdrawn from a course after the established withdrawal deadline, the student may submit a Student Petition Form (available at www.aus.edu/registration/forms) to the Office of the Registrar with the appropriate original medical documents. The Office of the Registrar will verify the claims and approve the change of status from a WF to a W.

Students who register for a course and do not attend it may be automatically dropped. Students who are automatically dropped will not be eligible for a tuition refund or adjustment.

A student may not withdraw from a course in which an academic integrity offense was committed and a penalty applied.

Withdrawal from the University

Students seeking to withdraw from the university must submit the Complete Withdrawal Form to the Office of the Registrar in person. The form is available at www.aus.edu/registration/forms.

Depending on the time of withdrawal, a grade of W or WF will be recorded for all the courses the student was registered for in the semester of withdrawal. In addition, the following refund schedule will apply:

| Before the end of the first week of classes | 100% refund excluding non-refundable deposits |
| During the second week of classes | 50% refund of tuition |
| During the third week of classes | 25% refund of tuition |
| After the third week of classes | 0% refund |

*Refunds for summer term withdrawals are prorated.

Interrupted Studies and Reinstatement

Students are expected to maintain continuous enrollment (fall and spring semesters) until they complete their program. Enrollment in zero-credit courses only does not establish residency for the purpose of this policy.

Students who do not complete their thesis/final project after one semester of thesis/final project work, but have otherwise completed all their course work, are exempt from this policy.

Students Away for Two Semesters

• A graduate student may take up to two semesters off from graduate studies but must inform the Office of the Registrar in writing of their intention to do so. Reactivation of the student’s record is automatic, however, students must submit a Reactivation Form to the Office of the Registrar one month prior to registration. The form is available at www.aus.edu/registration/forms.

• Graduate students who were on probation prior to complete withdrawal must petition for resuming studies to the Office of the Registrar one month prior to registration. The Student Petition Form is available at www.aus.edu/registration/forms. Reactivation of the student’s record must be approved by the student’s dean (or appointed designee) or program director/coordinator.

• Graduate students seeking reinstatement following academic dismissal must petition to the student’s program director/coordinator one month prior to registration. The Student Petition Form is available at www.aus.edu/registration/forms. Petitions will be reviewed by the graduate program director/coordinator who will make a written recommendation to the appropriate dean (or appointed designee). The dean (or appointed designee) will then provide a recommendation to the Office of the Vice Provost for Research and Graduate Studies. Decisions regarding continuation in the program will be made by the Office of the Vice Provost for Research and Graduate Studies in consultation with the appropriate dean (or appointed designee).

Reinstatement following academic dismissal is granted only in exceptional circumstances.

Students Away Longer than Two Semesters

Graduate students in good standing who leave AUS for more than two consecutive semesters must submit a new application for admission to the Office of Enrollment Management/Graduate Admissions.

Students on probation, or academically dismissed students who have been away longer than two consecutive semesters, may not apply for reinstatement.

Transfer of Credits

Courses taken at another institution while on leave from AUS will not be transferred.

Course Information

Course Code

Every course in each discipline or field of study offered by the university is represented by a three-letter prefix followed by a three-digit number indicating the level of the course content.

Course Credit Hours

All courses are valued in credits. Normally, each credit hour represents 50 minutes of class instruction per week each semester, two or three 50-minute laboratory sessions per week each semester, or one or two 50-minute recitation sessions per week each semester.

The numbers in parentheses following the title of a course indicate the course contact hours distribution per week and the course credit information. The first digit in parentheses refers to the number of class contact hours per week the course requires, the second digit denotes the number of laboratory or practice hours required weekly, and the third digit refers to the number of credits the student will earn upon successfully completing the course.
Fields of Study

Degree Offerings

American University of Sharjah has three colleges and one school that offer both undergraduate and graduate degree programs, in addition to one graduate certificate program. Graduate programs are listed below. Undergraduate degree offerings are listed in the AUS Undergraduate Catalog.

College of Architecture, Art and Design
- Master of Urban Planning

College of Arts and Sciences
- Master of Arts in English/Arabic/English Translation and Interpreting
- Master of Arts in Teaching English to Speakers of Other Languages
- Master of Science in Mathematics

College of Engineering
- Master of Science in Chemical Engineering
- Master of Science in Civil Engineering
- Master of Science in Computer Engineering
- Master of Science in Electrical Engineering
- Master of Science in Mechanical Engineering
- Master of Science in Engineering Systems Management
- Master of Science in Mechatronics Engineering

School of Business and Management
- Master of Business Administration
- Master of Science in Accounting
- Executive Master of Business Administration

Transferring from Non-Degree or Visiting to Degree Status

Students may request a change of status from non-degree to degree status or from visiting to degree status by submitting a complete application. The Office of Enrollment Management/Graduate Admissions will forward the approved forms to the graduate program offering the course. All admissions requirements must be met.

Courses taken while under the non-degree or the visiting status may apply towards the degree program given the approval of the graduate program director/coordinator. Courses earned in courses that are accepted will count in the cumulative GPA (CGPA). The university rules and regulations governing transfer courses and credits will apply.

The graduation requirements will be determined by the catalog that is effective when the student joins a degree program or the catalog effective the semester of the student’s graduation. For more details, please refer to the Catalog section under Graduation Requirements.

Change of Program

Students seeking to change their graduate degree program must complete the Change of Major Form available from the Office of the Registrar. Requests for a change of program should be submitted to the office of the graduate program director/coordinator of the program of the student’s choice by the last day of the 12th week of classes of the fall or spring semester. The office of the graduate program director/coordinator will forward the approved forms to the Office of the Registrar. Forms received by the Office of the Registrar by the end of the add and drop period will be effective as of the following semester/term.

Change of Major forms must be submitted to the Office of the Registrar by the last day of the 12th week of classes of the fall or spring semester. The office of the graduate program director/coordinator will forward the approved forms to the Office of the Registrar. Forms submitted by the end of the add and drop period will be effective as of the following semester/term.

Concentrations and Themes

Some programs allow students the choice of an area of concentration or theme. This option offers students more in-depth knowledge of a subject area. Please refer to the relevant program section for concentration/theme requirements. Where the concentration/theme is mandatory, a student must declare his/her choice when applying to the program. Where the concentration is an option, a student must indicate his/her choice by filling in the appropriate information on the Change of Major Form.
Grades and Academic Standing

Grading System

Courses are graded using letter grades. The grade point average (GPA) is based on a four-point scale. The minimum passing grade for a graduate course is C. Normally, graduate students who receive an F in a graduate course will not be allowed to continue in the program.

The AUS grading system is provided below:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>Meets Expectation</td>
<td>3.70</td>
</tr>
<tr>
<td>B+</td>
<td>equals 3.30 grade points</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>equals 3.00 grade points</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Below Expectation</td>
<td>2.70</td>
</tr>
<tr>
<td>C+</td>
<td>equals 2.30 grade points</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>equals 2.00 grade points</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Fail</td>
<td>0.00</td>
</tr>
<tr>
<td>AF</td>
<td>Academic Integrity Violation</td>
<td>0.00</td>
</tr>
<tr>
<td>XF</td>
<td>Withdrawal Fail</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Grades not calculated in the grade point average are:

- AUD Audit
- AW Administrative Withdrawal
- I Incomplete
- IP In Progress
- N No Grade
- P Pass; credits counted
- PDS Pass with distinction (EMBA program only)
- TR Transfer; credits counted
- W Withdrawal
- WV Waive; no credit

Incomplete Grades

The work for a course must be completed by the end of the final exam day for that course. In emergency circumstances, a student may request permission from the course instructor and graduate program director/coordinator to complete a course in the following semester. A grade of I (incomplete) is assigned for the course. The instructor of the course will then process an Incomplete Grade Form and submit it to the Office of the Registrar for final approval and implementation. The Incomplete Grade Form must be submitted within the final examinations period.

Students must complete an incomplete course before the end of the following regular semester. Otherwise, a tentative grade estimated on the basis of work already completed may be recorded. Failure to complete the course within the following semester may result in the grade being recorded as F unless a tentative grade has been reported previously.

In Progress Grades

A thesis/final project normally requires longer than one semester to be completed. An In Progress (IP) grade is recorded until completion of the thesis/final project. Once the thesis/final project is defended, the program director/coordinator will inform the Office of the Registrar of the final grade.

Repeating Courses

Normally, graduate courses cannot be repeated. With the recommendation of the program director/coordinator and the approval of the appropriate dean (or appointed designee), a graduate student may be allowed to repeat any course in which a grade of B-, C+, C or F is received. The original grade and the new grade will appear in the transcript, but only the new grade will be calculated into the GPA.

No course may be taken more than twice. Students may not repeat courses in an independent course format.

Note: Normally, graduate students who receive an F in a graduate course will not be allowed to continue in the program.

Grade Point Average

AUS uses two grade point averages: the semester grade point average (SGPA) and the cumulative grade point average (CGPA).

Quality Points

The quality points earned in a course are calculated by multiplying the grade point value of the letter grade by the number of credits the course is worth. Only the last entry of the repeated course is counted in the calculation of the CGPA.

Semester Grade Point Average (SGPA)

The SGPA is the grade point average of grades earned in a particular semester. It is calculated by dividing the sum of the quality points of courses taken in a particular semester by the total number of credits of the courses taken in that same semester.

SGPA = \[ \frac{\text{sum (quality points of courses taken in semester X)}}{\text{sum (credit hours of courses taken in semester X)}} \]

Cumulative Grade Point Average (CGPA)

The CGPA is calculated by dividing the sum of the quality points of courses taken in all semesters by the total number of credits of all courses taken in all semesters.

CGPA = \[ \frac{\text{sum (quality points of courses taken in all semesters)}}{\text{sum (credit hours of courses taken in all semesters)}} \]

Only the last entry of a repeated course is considered in the CGPA calculation.

Academic Standing

A student’s academic standing is determined by his/her CGPA.

Good Standing

In order to be considered in good standing, graduate students must maintain a CGPA of at least 3.00 out of 4.00. A student must be in good standing to be eligible for graduation.

Academic Probation

If a graduate student’s cumulative GPA is below 3.00, the student is placed on academic probation. During probation status, the following conditions apply:

- A graduate student on probation may not register for more than six credit hours in a semester. The program director/coordinator may restrict the summer course load of a graduate student on probation to three credit hours.
- A graduate student on probation may not register for thesis or final project credit hours until a cumulative GPA of 3.00 is achieved.

Probation will be removed at the end of any semester in which the student attains a CGPA of 3.00.

Academic Dismissal

A graduate student on probation who does not achieve good academic standing by the end of the regular semester following the term in which the cumulative GPA fell below 3.00 is academically dismissed from the university.

Normally, graduate students who receive an F in a graduate course will not be allowed to continue in the university.
Students who have been academically dismissed as a result of failing to meet the requirements of good standing or who receive an F in a graduate course may petition for reinstatement. Reinstatement following academic dismissal is granted only in exceptional circumstances.

Academically dismissed students seeking to move to another graduate program must petition to the Office of the Vice Provost for Research and Graduate Studies. The Student Petition Form is available at www.aus.edu/registration/forms. Petitions will be reviewed by the graduate program director/coordinator, who will make a written recommendation to the appropriate dean (or appointed designee). The dean (or appointed designee) will then provide a written recommendation and forward the petition to the Office of the Vice Provost for Research and Graduate Studies. Decisions regarding continuation in the program will be made by the Office of the Vice Provost for Research and Graduate Studies in consultation with the appropriate dean (or appointed designee).

Students who have been academically dismissed, readmitted and subsequently dismissed will normally not be readmitted.

Academically dismissed students who have been away longer than two consecutive semesters may not apply for reinstatement.

Student Petitions and Appeals

Student Responsibility

All official university communications are distributed through the AUS-issued email address. These are considered official notifications. Students are responsible for checking their AUS email accounts and for responding to or acting upon messages accordingly.

Students should keep their own records of all transactions with the university (e.g., registration schedules and forms, grade reports, payment records, etc.). It is also advisable to keep copies of all tests, digital files, papers and so forth submitted in fulfillment of course work. Students should keep copies of all course syllabi.

Petitions

Students may petition for exceptions to academic policies of the university. Petitions are processed through the Office of the Registrar. The Student Petition Form is available at www.aus.edu/registration/forms.

Appeal of Academic-Related Issues

If a student wishes to discuss an issue pertaining to a course, instructor or other academic-related issues, the student may direct his/her concern to the involved faculty member. If the issue or grievance is not resolved, the student should contact the graduate program director/coordinator and/or dean (or appointed designee) of the college/school.

If, in the judgment of the dean (or appointed designee) of the college/school, the grievance is of such gravity or its resolution would have such impact on the welfare of students generally or on the conduct of professional responsibilities in the university as to require even more formal safeguards for the aggrieved student and faculty member involved, the dean (or appointed designee) will prescribe an appropriate procedure consonant with the university’s mission or refer the matter to the Academic Appeals Review Committee through the Office of the Vice Provost for Research and Graduate Studies. Academic appeals requests must be submitted no later than the end of the first day of orientation week of the following semester.

Appeal of a Grade

Students are entitled to objective, professional evaluation of their academic work and to fair, equitable treatment in the course of their academic relationships with members of the faculty. These criteria are observed by the members of the AUS faculty as a part of their professional responsibilities.

A student who believes that he/she has a legitimate concern regarding a final course grade must inform the professor responsible for the course in writing no later than five working days after the last day of the final examinations period. The student should then discuss the matter with the professor. If a resolution cannot be reached, the student should contact the program director/coordinator to discuss the matter. Every effort should be made to resolve the issue at the program level. If the dispute is over a final course grade and the matter cannot be resolved at the program level, the student may file a formal grade appeal with the office of the director of the graduate programs in the college/school.

Formal grade appeal requests must be submitted to the office of the director of the graduate programs of the college/school in which the course was taught no later than five working days prior to the first day of class of the following semester. A grade appeal review will be conducted by the college/school, and the student and the professor responsible for the course will be notified of the outcome.

Appeal of an XF Grade

In cases where a failing grade of XF was assigned to a course as a result of an academic offense penalty, a student may petition during the semester of graduation, or at the time of complete withdrawal from AUS, to have the grade converted to an F on the academic transcript. The petition is submitted to the Office of the Registrar along with the Application for Graduation or the Complete Withdrawal Form. The final decision will be made by the Office of the Vice Provost for Research and Graduate Studies.

The F grade resulting from an XF grade will be reverted back into an XF grade if the student reactsivate his/her record at AUS.
Graduation

Thesis and Final Project

Master’s theses or final project reports document research conducted by AUS graduate students under the guidance and supervision of AUS faculty members. They are the culmination of the students’ programs of study and are expected to reflect appropriate scholarly depth and rigor. Theses and final projects are defended publicly.

The Office of the Vice Provost for Research and Graduate Studies in collaboration with the Graduate Program Committee, establishes and oversees the regulations and requirements for theses and final projects at AUS. Degree candidates are responsible for adhering to these requirements as published in the Guide to Graduate Thesis Policies and Procedures/Guide to Graduate Project Policies and Procedures (available on iLearn and accessible using the following path: iLearn-Community-Office of Research and Graduate Studies (ORGS)-Graduate Studies). In addition, degree candidates are responsible for familiarizing themselves with and adhering to the standards and regulations of the latest edition of the AUS Guide to Writing and Formatting Graduate Theses/AUS Guide to Writing and Formatting Graduate Projects (available through the same aforementioned iLearn path).

It is AUS policy to maintain master’s theses in the AUS Archives and also to make theses available to other students and scholars. The AUS Library is responsible for the archiving and binding of the master’s thesis. Detailed procedures and requirements for submitting master’s theses to the AUS Library and Archives for binding are outlined in the Guide to Graduate Thesis Policies and Procedures.

AUS also has a stringent policy regarding research involving humans as subjects. Detailed information on such research activities may be found on iLearn and accessible using the following path: iLearn-Community-Office of Research and Graduate Studies (ORGS)-Research-IRB.

Registering for Thesis/Final Project Credit

Graduate students registering for thesis/final project credits must register through the Office of the Registrar.

Only students in good academic standing may register for thesis/final project credits.

Thesis/Final Project First Registration

In the first semester of thesis/final project work (usually no earlier than the second semester of enrollment in the graduate program), a student normally registers for three thesis/final project credit hours working on the thesis/final project proposal.

Before the end of the add/drop period, graduate program directors/coordinators must provide the Office of the Registrar with a list of all students who will be registered for thesis/final project (XXX 699/XXX 698), along with their thesis/final project titles and the names of their advisors.

The thesis proposal must be orally presented to the thesis committee before the end of the first semester that the student is registered for thesis/final project. The thesis proposal must be approved in writing by the thesis committee. Final project proposals are approved by the graduate program director/coordinator.

Students who do not demonstrate adequate progress by the end of the 10th week of the semester will be withdrawn from the thesis/final project course by their advisors.

For details on thesis/final project proposal preparation and submission, please refer to the Guide to Graduate Thesis Policies and Procedures/Guide to Graduate Project Policies and Procedures available on iLearn and accessible using the following path: iLearn-Community-Office of Research and Graduate Studies (ORGS)-Graduate Studies.

Thesis/Final Project Continuous Enrollment

Before the end of the add and drop period, the program director/coordinator will email the Office of the Registrar a list of the names and ID numbers of those students maintaining enrollment for registration into their respective thesis/final project courses, along with their thesis/final project titles, the names of their advisors and the appropriate credit and billing hours.

Thesis/Final Project Time Extensions

Students who do not complete the thesis/final project after registering for thesis/final project full credits must register for the full thesis/final project credits but with zero billing hours until the thesis/project is finished and defended. A thesis/final project extension fee is charged per semester to establish continuous enrollment. Failure to pay the extension fee will be considered an interruption of studies (see Interrupted Studies and Reinstatement under the Registration section).

All students must be registered in the semester in which they defend their thesis.

Note: A student must complete all degree requirements within five years from the time of initial enrollment into the program.

Switching from Final Project to Thesis and Vice Versa

Graduate students who wish to switch from thesis to final project (or vice versa) must submit their requests within the published deadlines. The petition must be approved by the student’s graduate program director/coordinator. A student who switches from thesis to final project (or vice versa) will be given an N for the grade for the thesis/final project credit hours (i.e., XXX 698 or XXX 699) completed for the first option selected. Switching from thesis to project could require the student to take additional courses. The student must pay for any additional credit hours or courses required as a result of switching from thesis to final project (or vice versa).

Grading of Thesis/Final Project

A thesis/final project grade will be awarded after completion and public defense of the thesis/final project.

If the thesis/final project work continues into a second semester, an IP grade will be assigned and the student must register for the thesis/final project course again but only for the balance thesis credit hours (i.e., enroll in the final three credits if he/she only enrolled in three the previous semester).

The IP designation will be used until completion and successful defense of the thesis/final project.

Graduation Requirements

Catalog

The graduation requirements for any individual student are normally determined by the catalog that was effective when the student admitted in the major. A student may choose to follow the catalog effective for the semester when the student expects to complete his/her graduation requirements. To change catalogs, a student must file a Change of Academic
Catalog Form (available at www.aus.edu/registration/forms) with the Office of the Registrar no later than the end of Add/Drop period of the student’s graduation semester/term. Every individual student is personally responsible for meeting all graduation requirements as detailed in his/her catalog year.

If a required course within a program changes its number of credits, then the number of credits required by the program for graduation may, at the discretion of the college/school, change by the same amount provided the minimum total number of credits for graduation is 30 and the CGPA is at least 3.00. In case of substantial changes in course offerings, equivalent graduation requirements are determined by the dean of the student’s college/school.

Disclaimer: Course information, content and prerequisites may be subject to change as a result of the university’s commitment to a process of continual improvement in academic programs. Students must comply with the most up-to-date course requirements.

Courses

Courses are considered primary components of the curriculum and should not be split into individual credits to be counted in different areas of the degree audit.

Graduation Residence Requirements

In order to obtain a master’s degree from AUS, students must complete at least three semesters in residence at AUS.

Transfer student may transfer up to nine graduate credits from a recognized graduate school at an accredited university. For details, please refer to the Transfer Credit Policy under the Admission to Graduate Studies section earlier in this catalog.

Time Limit on Duration of Study and Course Year Limit

Regardless of the catalog by which the student’s graduation requirements are governed, all degree requirements must be completed within five years of admission to AUS as a graduate student, inclusive of any leave.

In addition, credits more than five years old (courses transferred to AUS) at the time of graduation may not be counted toward the fulfillment of a graduate degree program.

Academic Standing Requirement

A student must be in good academic standing to be eligible for graduation.

Graduation Procedures

Participation in the Commencement Ceremony

The university holds two commencement exercises: a fall commencement ceremony at the end of the fall semester and a spring commencement ceremony at the end of the spring semester.

Prospective candidates for graduation in a summer term or a fall semester are eligible to participate in the corresponding fall commencement ceremony. Likewise, prospective candidates for graduation in a spring semester are eligible to participate in the corresponding spring commencement ceremony.

Graduate students registered at the 11th week of a semester for courses/thesis/final project necessary to complete their degree requirements may participate in commencement at the end of that semester, unless the college/school notifies the Office of the Registrar that graduation will be delayed because of lack of progress on the thesis/final project.

Students who do not wish to participate in the commencement exercises of their semester of graduation must complete an Absentia Form, which is available at www.aus.edu/registration/forms or www.aus.edu/commencement. Absentia graduates are not eligible to participate in another semester commencement ceremony.

Application for Graduation

Candidates for graduate degrees file an Application for Graduation form (available at www.aus.edu/registration/forms or www.aus.edu/commencement) with the Office of the Registrar during the registration period of the last expected term of study. Only after an Application for Graduation form has been filed can the Office of the Registrar begin processing the necessary information for final certification for graduation.

Students who fail to complete all degree requirements by the end of the term for which they apply to graduate need not reapply for graduation. Their previous application will be automatically moved to the following semester.

Conferral of Degrees

Only students who have successfully completed degree requirements and all thesis requirements, including corrections and final submission of the completed thesis to the library, by the end of the term for which they have applied to graduate are certified for conferral of a degree. Degrees are conferred at the end of the semester in which requirements have been met. Conferment of the degree is noted on the academic transcript of the graduate with the date of graduation.

Names on Degrees

The names of AUS students will be spelled in English exactly as they appear on their passports or identity cards when printed on degrees. If a name on a passport or an identity card does not appear in English, then the spelling of the name will be printed according to the personal preference of the student.

Attestation of Degrees and Transcripts

The Office of the Registrar provides information relevant to the attestation of degrees and transcripts with the UAE Ministry of Higher Education and Scientific Research. For details, please see www.aus.edu/commencement.
College of Architecture, Art and Design

Dean
Peter Di Sabatino

Associate Dean
Ahmed Mokhtar

Director of Graduate Programs
Ahmed Mokhtar

Master of Urban Planning (MUP)
Michael Hughes, Head
Jerry Kolo, Coordinator

Urban planning is concerned with creating pleasing and functional places where present and future generations can live, work, entertain and engage in their customary community, social, religious and cultural activities.

Urban planning has roots in architecture, engineering, public health, law and the social sciences. Planners today combine design, analytical and communication skills to help communities manage change. Urban planning involves government, private enterprise and local communities taking concerted action toward achieving a common goal.

The Master of Urban Planning (MUP) at AUS provides a specialized and professional education that enables graduates to exert leadership in managing urban growth, developing urbanization policies and promoting social development. The program imparts to students ethical standards compatible with the values of local cultural settings, principles of social justice and concerns for environmental protection and sustainability. More details on the program are available at www.aus.edu/programs/mup.

Program Mission

The MUP program prepares individuals to become experts and leaders in the management and planning of urban development; in doing so, they will be guided by professional and ethical standards rooted in values of sustainability, local culture and social justice.

Program Goals

The MUP program seeks to:

• offer a high-quality educational setting that integrates theoretical principles of urban planning with practical methods and applications
• pursue approaches to teaching and learning that emphasize dealing with practical real-world issues and problems

Graduates of the MUP program will be able to:

• use quantitative, qualitative and visual techniques to analyze and interpret data and communicate information in support of planning and policy-making for cities and regions

Admission Requirements

Applicants are required to fulfill the university’s general admission requirements for graduate studies.

The program admits students from all fields of study including, but not limited to, urban planning, architecture, engineering, business, the humanities and the social sciences.

The Admissions Committee consists of the Coordinator of the Master of Urban Planning program and two faculty members who teach in the program—one from the College of Architecture, Art and Design and one from the College of Engineering.

Applicants must submit their most recent curriculum vitae (CV) with the application package.

Degree Requirements

The MUP degree is awarded after the successful completion of a minimum of 33 credits and a maximum of 48 credits (up to 15 additional credits—five courses—in foundation courses).

Foundation Courses Requirement

Students admitted to the MUP program may be required to complete a minimum of 15 credits in foundation courses, which serve as preparation for the core courses. The number of foundation courses required will normally depend on courses completed at the undergraduate level. Foundation courses may be waived when the waiver policy requirements are met.

Foundation Courses (15 credits)

• UPL 501 Fundamentals of Urban Planning
• UPL 547 Research Methods and Analysis
• UPL 550 Urban Economics and Analysis
• UPL 572 Urban Transportation Systems Planning Techniques
• UPL 582 Theory and Principles of Urban Design

Waiver Policy

Students may qualify to waive any or all of the foundation courses. In general, a course may be waived if the student has completed comparable course work at the undergraduate level. Waivers are only granted at the time of admission, after an official, sealed transcript is received by the AUS Office of Enrollment Management/Graduate Admissions. Students may be required to submit course documentation in order to qualify. The waiver rules are as follows:

• Students may waive foundation courses if two related undergraduate courses have been completed. Only courses taken at an accredited university toward a degree and with a minimum grade of B will be considered.
• Students with relevant professional experience that indicates mastery over the content of a foundation course may be granted a waiver based on a written or oral assessment.
• Students may be required to take a placement exam in order to waive a foundation course.

Core Courses Requirement
(18 credits)

Students must complete the following UPL courses:
• UPL 541 Planning Theory and Methods
• UPL 548 Environmental Planning
• UPL 556 Spatial Analysis for Planners
• UPL 565 Land Use Planning Principles and Practice
• UPL 584 Urbanism and Urban Form Analysis
• UPL 597 Urban Planning Internship
• UPL 686 Space, Society and the Public Realm

Internship Waiver

MUP student who have completed a minimum of eight weeks of professional experience related to urban planning are eligible to apply for a waiver of the internship requirement (UPL 597). Requests for waivers are evaluated by the MUP coordinator. Approved waivers are communicated to the Office of the Registrar.

Required Capstone Experience
(6 credits)

Students must select one capstone experience from among the three listed below. Students must first receive permission from the program coordinator in order to choose the final project or master’s thesis option.
• UPL 667 Urban Planning Studio
  This experience involves working as a group on applying substantive urban planning skills. It involves fieldwork and hands-on analysis and application.
• UPL 698 Final Project
  This involves individual work by a student, under faculty supervision, on an applied topic. For more information, please refer to the Master’s Project (Guides and Documents) folder available on iLearn and accessible using the following path: iLearn-Community-Office of Research and Graduate Studies (ORGS)-Graduate Studies.

For registration details, please refer to Thesis and Final Project under the Academic Policies and Regulations section of this catalog.

Elective Courses
(minimum of 9 credits)

Students must complete three elective courses (a minimum of 9 credits) selected in consultation with their advisor from any university graduate-level course not counted as a core or capstone course.

Academic Advising

Program advising procedures provide students with orientation and guidance on the program and the profession. Students are assigned a faculty mentor based on their area of interest. Students meet with their faculty mentor every semester to discuss curricular progress and changes in circumstances, if any. Students subsequently meet with the program coordinator, who confirms course choices for the next semester. The program coordinator will either clear the students to register themselves via the website or register them in the courses selected for the following semester.
College of Arts and Sciences

Master of Arts in English/Arabic/English Translation and Interpreting (MATI)

Ronak Husni, Head
Sattar Izwaini, Coordinator

The Master of Arts in English/Arabic/English Translation and Interpreting (MATI) responds to the vital role that intercultural communication plays in international encounters and the growing impact of the Arab region on world affairs by equipping graduates with highly specialized translation and interpreting skills in English and in Arabic. The MATI program places the diverse range of skills required for translation and interpreting within a general theoretical framework, which provides students with the conceptual tools to identify, analyze and resolve problems and develop a reflective approach to translation and interpreting. The MATI program provides students with advanced training in translation and interpreting techniques, as well as in terminology management, machine translation (MT), translation memory (TM) and language engineering areas most relevant to the work of translators and interpreters in today’s complex web of communication.

Program Goals

To fulfill its mission, the MATI program aims to:

- equip graduates with highly specialized translation and interpreting skills and techniques in English and in Arabic
- provide students with the conceptual tools to identify, analyze and resolve problems and develop a reflective approach to translation and interpreting
- enhance their knowledge of English and Arabic language and linguistics as they relate to translation and interpreting
- expose students to the relevant technologies for translation and interpreting
- prepare students to respond confidently to the demands of translation and interpreting within the fields of business, science, international relations, law and journalism
- further develop students’ knowledge of relevant research methods and academic writing conventions

Program Outcomes

Graduates of the MATI program should be able to:

- demonstrate competence in translation and interpreting into and out of English and Arabic
- demonstrate the ability to reflect upon and use relevant theories of translation and interpreting in the production and assessment of translation and interpreting tasks
- apply knowledge of English and Arabic language and linguistics to the tasks of translation and interpreting
- apply relevant technologies to translation and interpreting activities
- perform competently in translating and interpreting for business, science, international relations, law and journalism
- employ appropriate research methodologies and conventions of academic writing

Admission Requirements

Applicants are required to fulfill the general university requirements for graduate admission.

In addition, non-native speakers of Arabic must hold a BA in Arabic.

Conditional admission status may be granted to applicants with a minimum overall GPA of 2.50 (or equivalent) and a 2.50 or its equivalent in 300- and 400-level courses in discipline(s) relevant to the program, and at least three years of relevant practical experience in translation and/or interpreting. In such cases, the student must take TRA 500 Principles and Strategies of Translation and another course as specified by the program director in their first semester of study, and must attain a GPA of 3.00 (B) or above for that semester to achieve full admission and to be allowed to proceed. Conditional admission applicants must also meet the general university conditional admission requirements as outlined in the

Admission to Graduate Studies section earlier in this catalog.

Degree Requirements

To graduate with the Master of Arts in English/Arabic/English Translation and Interpreting, students must complete all the requirements of the program, which consist of 36 credits inclusive of a research thesis. Students must complete the degree requirements within five years from the time of initial enrollment in the program. A minimum cumulative GPA of 3.00 is required for graduation. Courses are offered during the weekday evenings.

Required Courses (27 credits)

- TRA 500 Principles and Strategies of Translation
- TRA 503 Theoretical Models of Translation
- TRA 505 Interpreting and the Profession I
- TRA 509 Interpreting and the Profession II: Simultaneous Interpreting
- TRA 510 Research Methods and Academic Writing
- TRA 512 Terminology, Arabization and the Translator
- TRA 558 Contrastive Linguistics and Translation
- TRA 630 Practicum
- TRA 699 Master’s Thesis

Practicum Waiver

The practicum requirement (TRA 630) can be waived, subject to the approval of the graduate program director, for those students who are in full-time employment in professional organizations or recognized government organizations. To be waived out of the practicum, students must produce a letter from their employers stating the length and duration of their employment.

Students with three or more years of experience in translation and/or interpreting may be exempted from the practicum.

Elective Courses (minimum of 9 credits)

Students must complete three courses (a minimum of nine credits) from the following, in consultation with their advisor.

- TRA 504 Discourse Semantics and Pragmatics in Translation
- TRA 556 Rhetoric for Translators
• TRA 610 Intercultural Communication and Translation
• TRA 595/694 Special Topics in Translation and Interpreting

Master’s Thesis

The thesis must be prepared under close supervision of the thesis faculty supervisor on a topic within translation/interpreting studies or an extended translation and a commentary, chosen in consultation with the faculty supervisor.

The thesis must be completed within two consecutive academic semesters. An extension may be allowed if a candidate presents acceptable mitigating circumstances.

The thesis is defended to the satisfaction of a committee composed of three faculty members. A complete guide for preparing the thesis, including the thesis proposal, thesis defense and deadlines, is given in the Master’s Thesis (Guides and Documents) folder available on iLearn and accessible using the following path: iLearn-Community-Office of Research and Graduate Studies (ORGS)-Graduate Studies.

For thesis registration details, please refer to Thesis and Final Project under the Academic Policies and Regulations section of this catalog.

Master of Arts in Teaching English to Speakers of Other Languages (MA TESOL)
Kathleen Hewett-Smith, Head
Peter Crompton, Coordinator

The mission of the Master of Arts in Teaching English to Speakers of Other Languages (MA TESOL) program is to provide students a balanced foundation of both practical and theoretical knowledge needed to teach English at various proficiency levels, and to prepare them for doctoral studies in areas related to language learning and teaching. By combining theory and practice, the program aims to produce informed teachers capable of using theory to enhance their teaching practice.

Program Goals

To fulfill this mission, the program goals are:

• to develop a critical approach to assess second language learning models, teaching methodologies and materials appropriate to the UAE cultural context
• to prepare students for positions requiring high levels of proficiency in teaching English as ESL/EFL at the secondary and tertiary levels
• to equip its graduates with the required competencies to contribute to the field and be prepared to enroll in PhD programs

Program Learning Outcomes

Upon graduation from the MA TESOL program, students should be able to:

• understand the basic models of language learning/teaching
• explain the role of culture in language learning and teaching in an ESL/EFL environment
• demonstrate critical and practical knowledge in the field of computer assisted/enhanced language learning
• apply pedagogical theories in applied linguistics to teaching practices
• apply testing and assessment concepts to real classroom situations
• develop/adapt and evaluate learner-centered curricula and materials for specific language teaching situations
• use effective classroom observation and research skills to improve teaching
• conduct original research

Admission Requirements

In addition to fulfilling the general university requirements for graduate admission, the applicant must have a minimum score of 5 on the TWE (Test of Written English) or the EWET (Emirates Writing Test).

Applicants who meet the general university requirements for graduate admission but have not completed at least one undergraduate course in general linguistics and one undergraduate course in English grammar will be considered for conditional acceptance pending completion of Introduction to Language Study (ENG 223) and/or Advanced English Grammar (ENG 401) within their first two semesters of study.

Degree Requirements

Students seeking an MA TESOL degree must complete a minimum of 36 credits in core courses, elective courses and a master’s thesis or professional project. Students must complete the degree requirements within five years from the time of initial enrollment in the program. A minimum cumulative GPA of 3.00 is required for graduation.

Students in the MA TESOL program must choose from two options: the thesis option and the project option.

Thesis Option

The 36 credits needed as degree requirements for this option include:

• 21 credits of core courses
• nine credits of elective courses
• six credits of Master’s Thesis

Project Option

The 36 credits needed as degree requirements for this option include:

• 21 credits of core courses
• 12 credits of elective courses
• three credits of Professional Project

Required Courses (27/24 credits)

Core Courses (21 credits)
• ELT 510 Research Methods and Academic Writing
• ELT 511 Linguistics for ESL Teachers
• ELT 513 Language Acquisition and Development
• ELT 515 Methods and Materials Development
• ELT 517 Curriculum Design
• ELT 551 Language Testing and Evaluation
• ELT 619 Practicum in TESOL

Master’s Thesis/Professional Project (6/3 credits)
• ELT 698 Professional Project (3 credits—project option)
• ELT 699 Master’s Thesis (6 credits—thesis option)

Elective Courses (minimum of 9/12 credits)

Students in the thesis option must complete three elective courses for a minimum of nine credits. Students in the project option must complete four elective courses for a minimum of 12 credits.

Students can select elective courses from the following list:
• ELT 501 Advanced English Grammar
• ELT 503 Contrastive Linguistics
• ELT 505 Culture and the Language Teacher
• ELT 521 Reading and Writing in ESL
• ELT 523 Bilingual Education
• ELT 525 Pragmatics for ESL Teachers
• ELT 531 Sociolinguistics
• ELT 553 Technology in the ESL Classroom
• ELT 567 Leadership and Management
• ELT 611 Classroom Research
• ELT 615 Quantitative and Qualitative Research in ELT

Master’s Thesis/Professional Project

A student must complete his/her thesis or professional project under close supervision of a faculty supervisor on a topic related to some aspect of TESOL.
The thesis/professional project must be defended to the satisfaction of the thesis or project committee, which is composed of three faculty members from TESOL program faculty. One committee member may be selected from outside the TESOL program faculty upon approval of the director of the program. A complete guide for preparing the thesis/professional project is given in the Master’s Thesis (Guides and Documents)/Master’s Project (Guides and Documents) folders available on iLearn and accessible using the following path: iLearn-Community-Office of Research and Graduate Studies (ORGS)-Graduate Studies.

For thesis/professional project registration details, please refer to Thesis and Final Project under the Academic Policies and Regulations section of this catalog.

Academic Advising

Students work closely with their advisor in selecting elective courses that address their individual needs. The advisor also encourages students to develop professional portfolios that include samples of selected work such as research papers, teaching reports, projects and lesson plans.

Master of Science in Mathematics (MSMTH)

Abdul Salam Jarrah, Coordinator

The Master of Science in Mathematics program will provide students with rigorous and thorough knowledge of a broad range of pure and applied areas of mathematics. It is designed to train students with different professional goals, ranging from employment or career advancement in business, industry or government, to basic training in foundations needed to obtain a research career or pursue a PhD in mathematics or mathematics-related fields.

Program Goals

The program seeks to accomplish the following:

- provide the analytical skills necessary to formulate and solve complex mathematical problems that are of contemporary relevance in the fields of pure and applied mathematics
- develop the mathematical skills and knowledge to facilitate career advancement in education, business or industry, or to pursue more advanced study such as a PhD degree in mathematics or mathematics related-fields
- provide the mathematical skills and knowledge to describe and solve complex quantitative problems that arise in business or industry

Program Outcomes

Upon completion of the program, graduates should be able to:

- apply advanced mathematical analysis to mathematical models
- demonstrate a comprehensive understanding of analysis, algebra, geometry and applied mathematics
- formulate and construct proofs
- clearly communicate mathematical concepts
- apply advanced mathematical techniques in their professional activities
- conduct independent research in specialized areas of mathematics
- employ mathematical methods to model and solve practical problems
- demonstrate advanced knowledge of analysis, financial mathematics, and differential equations and their applications
- formulate problems in mathematical terms arising in related areas such as engineering, finance, and the natural and physical sciences

Admission Requirements

In addition to meeting the university’s general graduate admission requirements, applicants must hold a bachelor’s degree in an area of mathematical science (applied or pure mathematics, actuarial science, statistics, etc.) from an independently accredited university recognized by AUS, or a bachelor’s degree from a related field with a minimum of:

- nine credits in calculus
- three credits in differential equations
- three credits in linear algebra
- three credits in abstract algebra
- three credits in advanced calculus

Degree Requirements


Thesis Option

Students in the thesis option are required to complete the following:

- 12 credits in required course work
- six credits in Master’s Thesis
- a minimum of 12 credits in elective courses

Non-Thesis Option

Students in the non-thesis option are required to complete the following:

- 12 credits in required course work
- a minimum of 18 credits in elective courses

Students seeking an MSMTH degree must complete a minimum of 30 credits in required and elective courses, with a minimum cumulative GPA of 3.00. Students must complete the degree requirements within five years from the time of initial enrollment in the program.

Pure Mathematics Track

Required Courses (18/12 credits)

In the pure mathematics track, all students must take the following four major required courses:

- MTH 510 Real Analysis I
- MTH 511 Real Analysis II
- MTH 530 Abstract Algebra I
- MTH 531 Abstract Algebra II

In addition, students in the thesis option must complete a master’s thesis (MTH 599, six credits).

Elective Courses (12/18 credits)

Students who select to pursue the thesis option must complete four elective courses for a minimum of 12 credits. Students who select to pursue the non-thesis option must complete six elective courses for a minimum of 18 credits.

Students can select electives from the following list, in consultation with their academic advisor:

- MTH 500 Mathematical Statistics with Applications
- MTH 505 Ordinary Differential Equations
- MTH 506 Partial Differential Equations
- MTH 512 Advanced Linear Algebra
- MTH 513 Advanced Probability
- MTH 514 Combinatorics
- MTH 520 Complex Analysis
- MTH 525 Functional Analysis
- MTH 540 Algebraic Coding Theory
- MTH 560 Topology
- MTH 565 Numerical Analysis
- MTH 570 Optimal Control Theory
- MTH 594 Special Topics in Mathematics
- MTH 596 Independent Study

Note: With the joint permission of the directors of graduate programs from the relevant colleges, a student may replace one elective course with an
elective course in a related subject, provided that the replacement elective meets the educational objectives of the program.

**Applied Mathematics Track**

**Required Courses (18/12 credits)**

In the applied mathematics track, all students must take the following four major required courses:

- MTH 505 Ordinary Differential Equations
- MTH 510 Real Analysis I
- MTH 511 Real Analysis II
- MTH 551 Methods of Applied Mathematics

In addition, students in the thesis option must complete a master’s thesis (MTH 599, six credits).

**Elective Courses (12/18 credits)**

Students who select to pursue the thesis option must complete four elective courses for a minimum of 12 credits. Students who select to pursue the non-thesis option must complete six elective courses for a minimum of 18 credits.

Students can select electives from the following list, in consultation with their academic advisor:

- MTH 500 Mathematical Statistics with Applications
- MTH 506 Partial Differential Equations
- MTH 507 Financial Mathematics I
- MTH 508 Mathematical Biology
- MTH 512 Advanced Linear Algebra
- MTH 513 Advanced Probability
- MTH 514 Combinatorics
- MTH 516 Financial Mathematics II
- MTH 517 Numerical Methods for Derivative Pricing
- MTH 530 Abstract Algebra I
- MTH 540 Algebraic Coding Theory
- MTH 555 Loss and Risk Models
- MTH 565 Numerical Analysis
- MTH 570 Optimal Control Theory
- MTH 594 Special Topics in Mathematics
- MTH 596 Independent Study

**Note:** With the joint permission of the directors of graduate programs from the relevant colleges, a student may replace one elective course with an elective course in a related subject, provided that the replacement elective meets the educational objectives of the program.

**Master’s Thesis**

Students in the thesis option must complete a research thesis pertinent to the track of their choice and representing results of independent research performed under the close supervision of a faculty advisor.

A student must select a thesis advisor no later than the first day of the third semester or after completing 12 credit hours, whatever comes first. The thesis advisor will be responsible for supervising all aspects of the student’s graduate work such as course selection, thesis research, thesis committee selection, thesis writing and thesis defense training. The student should identify a faculty member of the department whose expertise most closely relates to the student’s thesis topic of interest. The student must then ensure that the faculty member will be willing to work with him/her on the proposed research topic. Thesis advisor selection should be confirmed with the Graduate Program Coordinator and with the approval of the Head of Department.

A complete guide for preparing the thesis is given in the Master’s Thesis (Guides and Documents) folder available on iLearn and accessible using the following path: iLearn-Community-Office of Research and Graduate Studies (ORGS)-Graduate Studies.

For thesis registration details, please refer to Thesis and Final Project under the Academic Policies and Regulations section of this catalog.
College of Engineering

Interim Dean
Leland T. Blank

Associate Dean
Hany El Kadi

Director of Graduate Programs
Hany El Kadi

Master of Science in Chemical Engineering (MSChE)
Naif Darwish, Head

The MSChE program will prepare professionals in an environment that combines chemical engineering practice and technical research to contribute to the growing body of chemical engineering knowledge, research and development both regionally and internationally.

Mission Statement
The mission of the Master of Science in Chemical Engineering (MSChE) program at AUS is to prepare professionals for advanced careers and/or doctoral studies related to chemical engineering. The program is continuously striving to create a stimulating academic environment that promotes excellence in teaching and research to assist the students in becoming competent, innovative, and responsible professionals.

Program Educational Objectives
Graduates of the MSChE program will be prepared to:

• be successful professionals in a specialized area of chemical engineering
• maintain a desire for research, innovation and lifelong learning
• uphold the responsibilities of the engineering profession

Student Outcomes
Upon graduation, an AUS MSChE graduate should demonstrate the ability to:

• perform research emphasizing creativity, independent learning and scientific methods in a chosen area of chemical engineering
• apply advanced mathematics and engineering knowledge in identifying, formulating and solving engineering problems
• select and use techniques, skills and modern tools necessary for research or professional practice

• communicate effectively
• recognize the need for, and engage in, lifelong learning
• attend to professional and ethical responsibilities

Admission Requirements
In addition to meeting the university’s general graduate admission requirements, applicants must meet specific requirements of the MSChE program.

Applicants must hold a Bachelor of Science in Chemical Engineering from an independently accredited university recognized by AUS. Degree individuals in other engineering fields or a quantitative science field that is closely related to the sought program field may be considered on a case-by-case basis.

Degree Requirements
Students seeking an MSChE degree must complete a minimum of 30 credits consisting of college/program core courses, program elective courses, a seminar, and a master’s thesis or a professional project, with a minimum cumulative grade point average of 3.00.

Students in the MSChE program must choose from two options: the thesis option or the non-thesis option.

To ensure that a student in either option will receive good exposure to the research environment, students are required to complete either a thesis or a professional project that includes research aspects.

Thesis Option
The 30 credits needed as degree requirements for this option include the following:

• six credits of required college core courses
• nine credits of required program core courses
• a minimum of six credits in elective courses
• a zero-credit seminar
• nine credits in Master’s Thesis

Non-thesis Option
The 30 credits needed as degree requirements for this option include the following:

• six credits of required college core courses
• nine credits of required program core courses

• a minimum of 12 credits in elective courses
• a zero-credit seminar
• three credits in Professional Project

Required Courses (24/18 credits)

College Core Courses (6 credits)

Students must complete the following courses:

• NGN 500 Advanced Engineering Mathematics
• NGN 505 Random Variables and Stochastic Processes or NGN 509 Advanced Computational Methods

Program Core Courses (9 credits)

Students must complete the following courses:

• CHE 510 Transport Phenomena
• CHE 511 Advanced Chemical Engineering Thermodynamics
• CHE 512 Advanced Kinetics and Reactor Design

In addition, all students must complete a seminar course (CHE 695).

Master’s Thesis/Professional Project (9/3 credits)

• CHE 698 Professional Project (3 credits—non-thesis option)
• CHE 699 Master’s Thesis (9 credits—thesis option)

Elective Courses (minimum of 6/12 credits)

Students in the thesis option must complete a minimum of six credits in elective courses. Students in the non-thesis option must complete a minimum of 12 credits in elective courses.

Students can select elective courses from the following list:

• CHE 594 Special Topics in Chemical Engineering
• CHE 610 Catalysis and Reaction Engineering
• CHE 611 Biomedical Engineering and Biotechnology
• CHE 612 Advanced Process Analysis and Control
• CHE 613 Advanced Materials Science
• CHE 614 Environmental Engineering
• CHE 694 Special Topics in Chemical Engineering
• CHE 696 Independent Study in Chemical Engineering

Students in the thesis option may elect to take one elective course outside this
list, with the approval of their advisor.

Students in the non-thesis option may elect to take up to two elective courses outside this list, with the approval of their advisor.

Master’s Thesis/Professional Project

A student must complete his/her thesis/professional project under the direct supervision and guidance of a principal advisor. This principal advisor serves as the chair of the student’s examining committee. The committee also includes two additional faculty members. For the thesis option, one of the additional faculty members must be selected from outside the program. The committee could also include one co-advisor or more.

A complete guide for preparing the thesis/professional project is given in the Master’s Thesis (Guides and Documents)/Master’s Project (Guides and Documents) folders available on iLearn and accessible using the following path: iLearn-Community-Office of Research and Graduate Studies (ORGS)-Graduate Studies.

For registration details, please refer to Thesis and Final Project Registration under the Academic Policies and Regulations section of this catalog.

Master of Science in Civil Engineering (MSCE)

Osman Akan, Head

The MSCE program will prepare professionals in an environment that combines civil engineering practice and technical research to contribute to the growing body of civil engineering knowledge, research and development efforts both regionally and internationally.

Mission Statement

The mission of the Master of Science in Civil Engineering (MSCE) program at AUS is to prepare professionals for advanced careers and/or doctoral studies related to civil engineering. The program strives to create a conducive academic environment that promotes excellence in teaching and research to assist the students in becoming competent, innovative and responsible professionals with effective communication skills.

Program Educational Objectives

Graduates of the MSCE program will be prepared to:

- be successful professionals in a specialized area of civil engineering
- maintain a desire for research, innovation and lifelong learning
- uphold the responsibilities of the engineering profession

Student Outcomes

Upon graduation, an AUS MSCE graduate should demonstrate the ability to:

- perform research emphasizing creativity, independent learning and scientific methods in a chosen area of civil engineering
- apply advanced mathematics and engineering knowledge in identifying, formulating and solving engineering problems
- select and use techniques, skills and modern tools necessary for research or professional practice
- communicate effectively
- recognize the need for, and engage in, lifelong learning
- attend to professional and ethical responsibilities

Admission Requirements

In addition to meeting the university’s general graduate admission requirements, applicants must meet specific requirements of the MSCE program.

Applicants must hold a Bachelor of Science in Civil Engineering from an independently accredited university recognized by AUS. Degreed individuals in other engineering fields or a quantitative science field that is closely related to the sought program field may be considered on a case-by-case basis.

Degree Requirements

Students seeking an MSCE degree must complete a minimum of 30 credits consisting of college/program core courses, program elective courses, a seminar, and a master’s thesis or a professional project with a minimum cumulative grade point average of 3.00.

Students in the MSCE program must choose from two options: the thesis option or the non-thesis option.

To ensure that a student in either option will receive good exposure to the research environment, students are required to complete either a thesis or a professional project that includes research aspects. In addition, many of the civil engineering graduate courses have research components that reinforce the research element in the program.

Thesis Option

The 30 credits needed as degree requirements for this option include the following:

- three credits of required college core courses
- six to 12 credits of 500-level elective courses and six to 12 credits of 600-level elective courses, for a minimum total of 18 credits
- a zero-credit seminar
- nine credits in Master’s Thesis

Non-thesis Option

The 30 credits needed as degree requirements for this option include the following:

- three credits of required college core courses
- nine to 15 credits of 500-level elective courses and nine to 15 credits of 600-level elective courses, for a minimum total of 24 credits
- a zero-credit seminar
- three credits in Professional Project

Required Courses (12/6 credits)

College Core Courses (3 credits)

Students must complete one of the following courses:

- NGN 500 Advanced Engineering Mathematics
- NGN 505 Random Variables and Stochastic Processes
- NGN 509 Advanced Computational Methods

In addition, all students must complete a seminar course (CVE 695).

Master’s Thesis/Professional Project (9/3 credits)

- CVE 698 Professional Project (3 credits—non-thesis option)
- CVE 699 Master’s Thesis (9 credits—thesis option)

Elective Courses (minimum of 18/24 credits)

Students in the thesis option must complete six to 12 credits from 500-level courses and six to 12 credits from 600-level courses, for a minimum total of 18 credits. Students in the non-thesis option must complete nine to 15 credits from 500-level courses and nine to 15 credits from 600-level courses, for a minimum total of 24 credits.

Students can select elective courses from the following list:

- CVE 520 Advanced Construction Materials and Methods
- CVE 521 Finite Element Method
- CVE 522 Advanced Water Resources Engineering
- CVE 523 Advanced Transportation Systems
- CVE 551 Wastewater Treatment
The MSCoE program will prepare professionals for advanced careers and/or doctoral studies related to computer engineering. The program strives to create a stimulating academic environment that promotes excellence in teaching and research to assist the students in becoming competent, innovative and responsible professionals with effective communication skills.

Program Educational Objectives

Graduates of the MSCoE program will be prepared to:

- be successful professionals in a specialized area of computer engineering
- maintain a desire for research, innovation and lifelong learning
- uphold the responsibilities of the engineering profession

Student Outcomes

Upon graduation, an AUS MSCoE graduate should demonstrate the ability to:

- perform research emphasizing creativity, independent learning and scientific methods in a chosen area of computer engineering
- apply advanced mathematics and engineering knowledge in identifying, formulating and solving engineering problems
- select and use techniques, skills and modern tools necessary for research or professional practice
- communicate effectively
- recognize the need for, and engage in, lifelong learning
- attend to professional and ethical responsibilities

Admission Requirements

In addition to meeting the university’s general graduate admission requirements, applicants must meet specific requirements of the MSCoE program.

Applicants must hold a Bachelor of Science in Computer Engineering from an independently accredited university recognized by AUS. Degreed individuals in engineering fields or a quantitative science field that is closely related to the sought program field may be considered on a case-by-case basis.

Degree Requirements

Students seeking an MSCoE degree must complete a minimum of 30 credits consisting of college/program core courses, program elective courses, a seminar, and a master’s thesis or a professional project with a minimum cumulative grade point average of 3.00.

Students in the MSCoE program must choose from two options: the thesis option or the non-thesis option.

To ensure that a student in either option will receive good exposure to the research environment, all students are required to complete either a thesis or a professional project that includes research aspects. In addition, many of the computer engineering courses have research components that reinforce the research element in the program.

Thesis Option

The 30 credits needed as degree requirements for this option include the following:

- six credits of required college core courses
- nine to 12 credits of 500-level elective courses and six to nine credits of 600-level elective courses, for a minimum total of 15 credits
- a zero-credit seminar
- nine credits in Master’s Thesis

Non-thesis Option

The 30 credits needed as degree requirements for this option include the following:

- six credits of required college core courses
- nine to 12 credits of 500-level elective courses and nine to 12 credits of 600-level elective courses, for a minimum total of 21 credits
- a zero-credit seminar
- three credits in Professional Project

Required Courses (15/9 credits)

College Core Courses (6 credits)

Students must complete two of the following courses:

- NGN 500 Advanced Engineering Mathematics
- NGN 505 Random Variables and Stochastic Processes
- NGN 509 Advanced Computational Methods

In addition, all students must complete a seminar course (COE 695).

Master’s Thesis/Professional Project (9/3 credits)

- COE 698 Professional Project (3 credits—professional project option)
- COE 699 Master’s Thesis (9 credits—thesis option)

Elective Courses (minimum of 15/21 credits)

Students in the thesis option must

- CVE 594 Special Topics in Civil Engineering
- CVE 620 Advanced Construction Planning and Controls
- CVE 621 Analysis and Design of Tall Buildings
- CVE 622 Physical and Chemical Processes in Environmental Engineering
- CVE 623 Advanced Transportation Planning Techniques
- CVE 624 Advanced Geotechnical Engineering
- CVE 625 Highway Bridge Design
- CVE 694 Special Topics in Civil Engineering
- CVE 696 Independent Study in Civil Engineering
- ESM 570 Project Management
- NGN 505 Random Variables and Statistics
- NGN 500 Advanced Engineering Mathematics
- Stochastic Processes
- Modern Methods in Mathematical Engineering
- Master’s Thesis/Professional Project
- Professional Project (9 credits—thesis option)
- Master’s Thesis (9 credits—thesis option)

In addition to meeting the university’s general graduate admission requirements, applicants must meet specific requirements of the MSCoE program.

Applicants must hold a Bachelor of Science in Computer Engineering from an independently accredited university recognized by AUS. Degreed individuals in engineering fields or a quantitative science field that is closely related to the sought program field may be considered on a case-by-case basis.

Degree Requirements

Students seeking an MSCoE degree must complete a minimum of 30 credits consisting of college/program core courses, program elective courses, a seminar, and a master’s thesis or a professional project with a minimum cumulative grade point average of 3.00.

Students in the MSCoE program must choose from two options: the thesis option or the non-thesis option.

To ensure that a student in either option will receive good exposure to the research environment, all students are required to complete either a thesis or a professional project that includes research aspects. In addition, many of the computer engineering courses have research components that reinforce the research element in the program.

Thesis Option

The 30 credits needed as degree requirements for this option include the following:

- six credits of required college core courses
- nine to 12 credits of 500-level elective courses and six to nine credits of 600-level elective courses, for a minimum total of 15 credits
- a zero-credit seminar
- nine credits in Master’s Thesis

Non-thesis Option

The 30 credits needed as degree requirements for this option include the following:

- six credits of required college core courses
- nine to 12 credits of 500-level elective courses and nine to 12 credits of 600-level elective courses, for a minimum total of 21 credits
- a zero-credit seminar
- three credits in Professional Project

Required Courses (15/9 credits)

College Core Courses (6 credits)

Students must complete two of the following courses:

- NGN 500 Advanced Engineering Mathematics
- NGN 505 Random Variables and Stochastic Processes
- NGN 509 Advanced Computational Methods

In addition, all students must complete a seminar course (COE 695).

Master’s Thesis/Professional Project (9/3 credits)

- COE 698 Professional Project (3 credits—professional project option)
- COE 699 Master’s Thesis (9 credits—thesis option)

Elective Courses (minimum of 15/21 credits)

Students in the thesis option must
complete a minimum of nine credits from 500-level elective courses and a minimum of six credits from 600-level elective courses. Students in the non-thesis option must complete nine to 12 credits of 500-level elective courses and nine to 12 credits of 600-level elective courses, for a minimum total of 21 credits.

Students can select elective courses from the following list:

- COE 530 Advanced Computer Networks
- COE 531 Advanced Software Design for Engineers
- COE 532 Advanced Embedded Systems and Industrial Automation
- COE 533 Advanced Computer Architecture
- COE 594 Special Topics in Computer Engineering
- COE 630 Wireless Networks
- COE 632 Advanced Database Systems
- COE 633 Advanced Internet Computing
- COE 634 Computer-Aided Design and Optimization of Digital Systems
- COE 635 Optical Networks
- COE 694 Special Topics in Computer Engineering
- COE 696 Independent Study in Computer Engineering

Students in both options may elect to take one elective course outside the program with the approval of their advisor.

Master’s Thesis /Professional Project

A student must complete his/her thesis/professional project under the direct supervision and guidance of a principal advisor. This principal advisor serves as the chair of the student’s examining committee. The committee also includes two additional faculty members. For the thesis option, one of the additional faculty members must be selected from outside the program. The committee could also include one co-advisor or more.

A complete guide for preparing the thesis/professional project is given in the Master’s Thesis (Guides and Documents)/Master’s Project (Guides and Documents) folders available on iLearn and accessible using the following path: iLearn-Community-Office of Research and Graduate Studies (ORGS)-Graduate Studies.

For registration details, please refer to Thesis and Final Project Registration under the Academic Policies and Regulations section of this catalog.

Master of Science in Electrical Engineering (MSEE)

Mohamed El-Tarhuni, Head

The MSEE program will prepare professionals in an environment that combines electrical engineering practice and technical research to contribute to the growing body of electrical engineering knowledge, research and development both regionally and internationally.

Mission Statement

The mission of the Master of Science in Electrical Engineering (MSEE) program at AUS is to prepare professionals for advanced careers and/or doctoral studies related to electrical engineering. The program is continuously striving to create a stimulating academic environment that promotes excellence in teaching and research to assist the students in becoming competent, innovative and responsible professionals.

Program Educational Objectives

Graduates of the MSEE program will be prepared to:

- be successful professionals in a specialized area of electrical engineering
- maintain a desire for research, innovation and lifelong learning
- uphold the responsibilities of the engineering profession

Student Outcomes

Upon graduation, an AUS MSEE graduate should demonstrate the ability to:

- perform research emphasizing creativity, independent learning and scientific methods in a chosen area of electrical engineering
- apply advanced mathematics and engineering knowledge in identifying, formulating and solving engineering problems
- select and use techniques, skills and modern tools necessary for research or professional practice
- communicate effectively
- recognize the need for, and engage in, lifelong learning
- attend to professional and ethical responsibilities

Admission Requirements

In addition to meeting the university’s general graduate admission requirements, applicants must meet specific requirements of the MSEE program.

Applicants must hold a Bachelor of Science in Electrical Engineering from an independently accredited university recognized by AUS. Degreed individuals in engineering fields or a quantitative science field that is closely related to the sought program field may be considered on a case-by-case basis.

Degree Requirements

Students seeking an MSEE degree must complete a minimum of 30 credits consisting of college/program core courses, program elective courses, a seminar, and a thesis or a professional project with a minimum cumulative grade point average of 3.00.

Students in the MSEE program must choose from two options: the thesis option or the non-thesis option.

To ensure that a student in either option will receive good exposure to the research environment, all students are required to complete either a thesis or a professional project that includes research aspects. In addition, all students will be required to complete research-oriented class projects within many of the electrical engineering graduate courses.

Thesis Option

The 30 credits needed as degree requirements for this option include the following:

- six credits of required college core courses
- six to nine credits of 500-level elective courses and six to nine credits of 600-level elective courses, for a minimum total of 15 credits
- a zero-credit seminar
- nine credits in Master’s Thesis

Non-thesis Option

The 30 credits needed as degree requirements for this option include the following:

- six credits of required college core courses
- nine to 12 credits of 500-level elective courses and nine to 12 credits of 600-level elective courses, for a minimum total of 21 credits
- a zero-credit seminar
- three credits in Professional Project

Required Courses (15/9 credits)

College Core Courses (6 credits)

Students must complete two of the following courses:

- NGN 500 Advanced Engineering Mathematics
- NGN 505 Random Variables and Stochastic Processes
ELE 694 Special Topics in Electrical Engineering (with the approval of their advisor) students take one course outside the program.

ELE 647 Digital Protection of Power Engineering

ELE 645 High Voltage Engineering

Elective Courses

Students in the thesis option must complete six to nine credits from 500-level courses and six to nine credits from 600-level courses, for a minimum total of 15 credits. Students in the non-thesis option must complete nine to 12 credits from 500-level courses and nine to 12 credits from 600-level courses, for a minimum total of 21 credits.

Students can select elective courses from the following list:

- ELE 540 Principles of Digital Communications
- ELE 542 Applied Electromagnetics
- ELE 543 Analog Microelectronics
- ELE 544 Advanced Signal Processing
- ELE 545 Power System Operation and Control
- ELE 546 Advanced Power Electronics
- ELE 594 Special Topics in Electrical Engineering
- ELE 640 Bioelectric Phenomena
- ELE 641 Advanced Microwave Engineering
- ELE 642 Digital and Wireless Communications
- ELE 643 Image and Video Processing
- ELE 644 Dynamics and Control of Electrical Drives
- ELE 645 High Voltage Engineering
- ELE 646 Radio Frequency Integrated Circuits
- ELE 647 Digital Protection of Power Systems
- ELE 648 Pattern Classification
- ELE 694 Special Topics in Electrical Engineering
- ELE 696 Independent Study in Electrical Engineering

Students in both options may elect to take one course outside the program with the approval of their advisor.

Master’s Thesis/Professional Project

A student must complete his/her thesis/professional project under the direct supervision and guidance of a principal advisor. This principal advisor serves as the chair of the student’s examining committee. The committee also includes two additional faculty members. For the thesis option, one of the additional faculty members must be selected from outside the program. The committee could also include one co-advisor or more.

A complete guide for preparing the thesis/professional project is given in the Master’s Thesis (Guides and Documents)/Master’s Project (Guides and Documents) folders available on iLearn and accessible using the following path: iLearn-Community-Office of Research and Graduate Studies (ORGs)-Graduate Studies.

For registration details, please refer to Thesis and Final Project Registration under the Academic Policies and Regulations section of this catalog.

Master of Science in Engineering Systems Management (MSESM)

Moncer Hariga, Head

The mission of the Master of Science in Engineering Systems Management (MSESM) program is to considerably increase the opportunities for practicing engineers to be successful in their efforts to build effective teams, lead and manage major engineering projects, and expand economic development for the private and public sectors of the UAE and the Gulf region countries.

The curriculum provides core courses followed by concentration courses in the theme areas of construction management (CM), engineering management (EM) and information technology management (ITM).

With quality standards similar to those established in comparable North American institutions, the program offers a multidisciplinary curriculum designed to integrate management skills with technical knowledge from different engineering disciplines for the purpose of accomplishing work activities and entire projects more economically and productively. The program provides students from engineering and related disciplines with the knowledge and skills needed to plan, design, analyze and improve integrated systems of people, material, technology and information. It also aims to contribute to the related world body of knowledge and advance research and development efforts in the region.

Program Educational Objectives

Students seeking an MSESM degree must complete a minimum of 36 credits consisting of core courses, theme courses, and a thesis or a professional project with a minimum cumulative grade point average of 3.00.

- ELE 695 A seminar course (ELE 695).
- NGN 509 Advanced Computational Methods
- ELE 698 Professional Project (3 credits—non-thesis option)
- ELE 699 Master’s Thesis (9 credits—thesis option)

Elective Courses (minimum of 15/21 credits)

Students in the thesis option must complete six to nine credits from 500-level courses and six to nine credits from 600-level courses, for a minimum total of 15 credits. Students in the non-thesis option must complete nine to 12 credits from 500-level courses and nine to 12 credits from 600-level courses, for a minimum total of 21 credits.

Students can select elective courses from the following list:

- ELE 540 Principles of Digital Communications
- ELE 542 Applied Electromagnetics
- ELE 543 Analog Microelectronics
- ELE 544 Advanced Signal Processing
- ELE 545 Power System Operation and Control
- ELE 546 Advanced Power Electronics
- ELE 594 Special Topics in Electrical Engineering
- ELE 640 Bioelectric Phenomena
- ELE 641 Advanced Microwave Engineering
- ELE 642 Digital and Wireless Communications
- ELE 643 Image and Video Processing
- ELE 644 Dynamics and Control of Electrical Drives
- ELE 645 High Voltage Engineering
- ELE 646 Radio Frequency Integrated Circuits
- ELE 647 Digital Protection of Power Systems
- ELE 648 Pattern Classification
- ELE 694 Special Topics in Electrical Engineering
- ELE 696 Independent Study in Electrical Engineering

Students in both options may elect to take one course outside the program with the approval of their advisor.

Master’s Thesis/Professional Project

A student must complete his/her thesis/professional project under the direct supervision and guidance of a principal advisor. This principal advisor serves as the chair of the student’s examining committee. The committee also includes two additional faculty members. For the thesis option, one of the additional faculty members must be selected from outside the program. The committee could also include one co-advisor or more.

A complete guide for preparing the thesis/professional project is given in the Master’s Thesis (Guides and Documents)/Master’s Project (Guides and Documents) folders available on iLearn and accessible using the following path: iLearn-Community-Office of Research and Graduate Studies (ORGs)-Graduate Studies.

For registration details, please refer to Thesis and Final Project Registration under the Academic Policies and Regulations section of this catalog.

Master of Science in Engineering Systems Management (MSESM)

Moncer Hariga, Head

The mission of the Master of Science in Engineering Systems Management (MSESM) program is to considerably increase the opportunities for practicing engineers to be successful in their efforts to build effective teams, lead and manage major engineering projects, and expand economic development for the private and public sectors of the UAE and the Gulf region countries.

The curriculum provides core courses followed by concentration courses in the theme areas of construction management (CM), engineering management (EM) and information technology management (ITM).

With quality standards similar to those established in comparable North American institutions, the program offers a multidisciplinary curriculum designed to integrate management skills with technical knowledge from different engineering disciplines for the purpose of accomplishing work activities and entire projects more economically and productively. The program provides students from engineering and related disciplines with the knowledge and skills needed to plan, design, analyze and improve integrated systems of people, material, technology and information. It also aims to contribute to the related world body of knowledge and advance research and development efforts in the region.

Program Educational Objectives

Graduates of the MSESM program will be prepared to:

- utilize engineering system management tools and techniques to design and implement economically and technically sound solutions to real-world problems
- lead the change management process to meet organizational goals and objectives
- communicate effectively in a multidisciplinary team work environment
- act professionally and ethically in the practice of engineering systems management
- engage in lifelong learning and carry out independent research in ESM fields

Student Outcomes

Upon graduation, an AUS MSESM graduate should demonstrate the ability to:

- apply the techniques, tools and skills of engineering systems management to address real-world problems
- conduct economic and financial analysis of projects and engineering operations
- function as effective members of multidisciplinary teams and communicate effectively in both written and verbal forms
- recognize professional and ethical responsibilities and act accordingly within a global and social context
- engage in theoretical and applied research projects

Admission Requirements

In addition to meeting the university’s general graduate admission requirements, applicants must meet specific requirements of the MSESM program.

Applicants must have a Bachelor of Science degree in engineering from an independently accredited university recognized by AUS. Degreed individuals in a quantitative science field that is closely related to engineering may be considered on a case-by-case basis. Degreed individuals in computer science or information technology may be considered only for the information technology theme. Preference will be given to applicants with relevant work experience.

Degree Requirements

Students seeking an MSESM degree must complete a minimum of 36 credits consisting of core courses, theme courses, and a thesis or a professional project with a minimum cumulative grade point average of 3.00.
Students in the MSESM program must choose from two options: the thesis/professional project option, or the course option.

**Thesis/Professional Project Option**

The 36 credits needed as degree requirements for this option include:
- 15 credits in core courses
- 15 credits in theme required and elective courses
- six credits in Master’s Thesis or Professional Project

**Course Option**

The 36 credits needed as degree requirements for this option include:
- 18 credits in core courses
- 18 credits in theme required and elective courses

**Required Courses (18/24 credits)**

**Core Courses (15/18 credits)**

Students in the thesis/professional project option must complete 15 credits in core courses; students in the course option must complete 18 credits.
- ESM 515 Fundamentals of Statistics and Engineering Economy
- ESM 520 Management for Engineers
- ESM 532 Introduction to Applied Operations Research
- ESM 555 Information Technology Management
- ESM 575 Advanced Engineering Economy
- ESM 600 Research Methodology (course option only)

**Theme Courses (3/6 credits)**

Students in the thesis/professional project option must complete three credits in theme required courses; students in the course option must complete six credits.

**Construction Management Theme**
- ESM 570 Project Management
- ESM 686 Capstone Course in Construction Management (course option only)

**Engineering Management Theme**
- ESM 570 Project Management
- ESM 685 Capstone Course in Engineering Management (course option only)

**IT Management Theme**
- ESM 580 IT Project Management
- ESM 687 Capstone Course in Information Technology Management (course option only)

**Elective Courses (minimum of 12 credits)**

Students must complete a minimum of 12 credits in courses taken from the list of elective courses of their declared theme. A maximum of two courses can be completed outside the student’s designated theme elective courses. Elective courses from outside the student’s theme must be approved by the program director.

**Construction Management Theme**
- ESM 600 Research Methodology (thesis/professional project option only)
- ESM 642 Business Process Management
- ESM 650 Construction Management
- ESM 652 Construction Planning and Scheduling
- ESM 660 Construction Contracts Law
- ESM 668 Construction Safety Management
- ESM 694 Special Topics in ESM

**Engineering Management Theme**
- ESM 600 Research Methodology (thesis/professional project option only)
- ESM 630 Quality Engineering and Management
- ESM 634 Advanced Modeling and Simulation
- ESM 636 Human Resources Management
- ESM 638 Decision Analysis
- ESM 640 Supply Chain Management
- ESM 642 Business Process Management
- ESM 644 Financial Management for Engineers
- ESM 694 Special Topics in ESM

**IT Management Theme**
- ESM 600 Research Methodology (thesis/professional project option only)
- ESM 612 Advanced Information Systems Management
- ESM 614 Communication and Network Management
- ESM 620 Security Management
- ESM 624 Knowledge Management
- ESM 642 Business Process Management
- ESM 694 Special Topics in ESM

**Master’s Thesis/Professional Project**

To be eligible for master’s thesis/professional project registration, a student must have completed a minimum of 12 credits of course work and must be approved for thesis/professional project registration by the ESM program director. Normally, minimum GPAs of 3.50 and 3.25 after 12 credits of course work are required to register in thesis and professional project, respectively.

A student must complete his/her thesis or professional project under the direct supervision and guidance of a principal advisor. This principal advisor serves as the chair of the student’s examining committee. The committee also includes two additional faculty members. For the thesis option, one of the additional faculty members must be selected from outside the program. The committee could also include one co-advisor or more.

A complete guide for preparing the thesis/professional project is given in the Master’s Thesis (Guides and Documents)/Master’s Project (Guides and Documents) folders available on iLearn and accessible using the following path: iLearn-Community-Office of Research and Graduate Studies (ORGS)-Graduate Studies.

For registration details, please refer to Thesis and Final Project under the Academic Policies and Regulations section of this catalog.

**Master of Science in Mechanical Engineering (MSME)**

Ibrahim Deibab, Head

The MSME program will prepare mechanical engineering and associated professionals in an environment that combines mechanical engineering practice and technical research to contribute to the growing body of mechanical engineering knowledge, research and development both regionally and internationally.

**Mission Statement**

The mission of the Master of Science in Mechanical Engineering (MSME) program at AUS is to prepare professionals for advanced careers and/or doctoral studies related to mechanical engineering. The program is continuously striving to create a stimulating proactive learning environment that promotes excellence in teaching and research to assist the students in becoming competent, innovative, and responsible professionals.

**Program Educational Objectives**

Graduates of the MSME program will be prepared to:
- be successful professionals in a specialized area of mechanical engineering
Student Outcomes

Upon graduation, an AUS MSME graduate should demonstrate the ability to:

- perform research emphasizing creativity, independent learning and scientific methods in a chosen area of mechanical engineering
- apply advanced mathematics and engineering knowledge in identifying, formulating and solving engineering problems
- select and use techniques, skills and modern tools necessary for research or professional practice
- communicate effectively
- recognize the need for, and engage in, lifelong learning
- attend to professional and ethical responsibilities

Admission Requirements

In addition to meeting the university’s general graduate admission requirements, applicants must meet specific requirements of the MSME program.

Applicants must hold a Bachelor of Science in Mechanical Engineering from an independently accredited university recognized by AUS. Degreed individuals in engineering fields or a quantitative science field that is closely related to engineering fields or a quantitative science field that is closely related to the sought program field may be considered on a case-by-case basis.

Degree Requirements

Students seeking an MSME degree must complete a minimum of 30 credits consisting of college/program core courses, program elective courses, a seminar, and a thesis or a professional project with a minimum cumulative grade point average of 3.00.

Students in the MSME program must choose from two options: the thesis option or the non-thesis option.

To ensure that a student in either option will receive good exposure to the research environment, all students are required to complete either a thesis or a professional project that includes research aspects. In addition, all students will be required to complete research-oriented class projects within many of the mechanical engineering graduate courses.

Thesis Option

The 30 credits needed as degree requirements for this option include the following:

- six credits of required college core courses
- nine credits of required program core courses
- a minimum of six credits in elective courses
- a zero-credit seminar
- nine credits in Master’s Thesis

Non-Thesis Option

The 30 credits needed as degree requirements for this option include the following:

- six credits of required college core courses
- nine credits of required program core courses
- a minimum of 12 credits in elective courses
- a zero-credit seminar
- three credits in Professional Project

Required Courses (24/18 credits)

College Core Courses (6 credits)

Students must complete two of the following courses:

- NGN 500 Advanced Engineering Mathematics
- NGN 505 Random Variables and Stochastic Processes
- NGN 509 Advanced Computational Methods

Program Core Courses (9 credits)

Students must complete the following three courses:

- MCE 550 Mechanical Systems Design
- MCE 551 Advanced Thermofluids
- MCE 552 Modeling and Simulation of Mechanical Systems

In addition, all students must complete a seminar course (MCE 695).

Master’s Thesis/Professional Project (9/3 credits)

- MCE 698 Professional Project (3 credits—non-thesis option)
- MCE 699 Master’s Thesis (9 credits—thesis option)

Elective Courses (minimum of 6/12 credits)

Students in the thesis option must complete a minimum of six credits in elective courses. Students in the non-thesis option must complete a minimum of 12 credits in elective courses.

Students can select elective courses from the following list:

- MCE 594 Special Topics in Mechanical Engineering
- MCE 650 Advanced Machine Dynamics
- MCE 651 Advanced Engineering Materials
- MCE 652 Advanced Topics in Manufacturing
- MCE 653 HVAC Systems Design
- MCE 654 Advanced Fluid Dynamics
- MCE 655 Advanced Measurements and Design of Experiments
- MCE 694 Special Topics in Mechanical Engineering
- MCE 696 Independent Study in Mechanical Engineering

Students in both options may elect to take one course outside the program with the approval of their advisor.

Master’s Thesis/Professional Project

A student must complete his/her thesis/professional project under the direct supervision and guidance of a principal advisor. This principal advisor serves as the chair of the student’s examining committee. The committee also includes two additional faculty members. For the thesis option, one of the additional faculty members must be selected from outside the program. The committee could also include one co-advisor or more.

A complete guide for preparing the thesis/professional project is given in the Master’s Thesis (Guides and Documents)/Master’s Project (Guides and Documents) folders available on iLearn and accessible using the following path: iLearn-Community-Office of Research and Graduate Studies (ORGS)-Graduate Studies.

For registration details, please refer to Thesis and Final Project Registration under Academic Policies and Regulations section of this catalog.

Master of Science in Mechatronics Engineering (MSMTR)

Aydin Yesildirek, Director

The Master of Science in Mechatronics Engineering (MSMTR) program is committed to being an international, multidisciplinary center of excellence in synergistic applications of the latest techniques in embedded systems, precision mechanical engineering, control theory, computer science and electronics through education, research and outreach. The technological gap between developing and industrialized nations continues to widen at an alarming rate, largely due to the lack of skilled engineers capable of integrating new technologies into existing systems.
and networks. The mandate of the mechatronics engineering program is to improve this situation by equipping engineers with the design, analysis and synthesis abilities to plan, implement and manage the latest technologies. The curriculum of the mechatronics program meets the region’s needs—both present and future—through the education of engineers and scientists.

Professional jobs considered to be in the mechatronics engineering field are grounded in the multidisciplinary aspects of electrical, mechanical, control, computer and software engineering. The unique skills of mechatronics graduates are becoming increasingly valuable to employers in a variety of areas, including modern industrial installations and systems, computer integrated manufacturing systems, maintenance diagnosis and troubleshooting, defense systems, vehicle design and manufacturing, robotics and many more.

The MSMTR graduate program provides students with state-of-the-art knowledge in their areas of specialization with practical strategies for adapting that knowledge to serve the specific needs of the region. Multidisciplinary engineers are needed now more than ever to meet the demand for a flexible engineering workforce to deal with highly integrated engineering systems.

Mission Statement
The Master of Science in Mechatronics Engineering at AUS is an interdisciplinary program that synergistically integrates advances in science and technology to prepare students for advanced research and applied systems engineering practices. The program hosts a research center equipped with world-class resources enabling hands-on teaching and advanced research, promoting entrepreneurial initiatives to assist students in becoming competent, innovative and responsible professionals.

Program Educational Objectives
Graduates of the MSMTR program will be prepared to:

- apply the latest techniques in precision mechanical engineering, control theory, computer engineering and science, and electronics to design more functional, adaptable and cost-effective products
- provide employers with interdisciplinary skills necessary to utilize cutting-edge technology tools in the design, development and implementation of modern engineering systems
- understand and develop technologies such as information technology, embedded systems, modeling and simulation, and precision engineering systems in the design and development of smart products
- apply mechatronics principles in the broad context of engineering system design
- address open-ended problems and maintain an attitude of self-learning

Student Outcomes
Upon graduation, an AUS MSMTR graduate should demonstrate the ability to:

- apply advanced engineering tools necessary to identify, model and analyze mechatronics engineering problems
- formulate and propose alternative solutions that satisfy specific performance requirements of a mechatronics system
- design and implement a mechatronics component, process or system and assess its performance
- function effectively in multidisciplinary teams in a leadership role or as an active member
- act professionally and ethically
- recognize contemporary issues and their influence on technology advancement in a global and societal context
- engage in lifelong learning in engineering and related professional areas
- conduct research and development activities in mechatronics and related areas
- communicate effectively through technical presentations and documentations

Admission Requirements
In addition to meeting the university’s general graduate admission requirements, applicants must meet the specific requirements of the mechatronics engineering program. Applicants must hold a bachelor of science degree in engineering from an accredited institution. Degreed individuals in fields closely related to engineering or a quantitative science may be considered on a case-by-case basis.

Degree Requirements
The formal program of study of the MSMTR program consists of a minimum of 30 credits with two options: the thesis option and the course option. Students must declare the option of their choice by submitting a formal study plan upon completion of 12 credits of approved MTR graduate courses.

A minimum cumulative grade point average of 3.00 is required for graduation.

Thesis Option
Students in the thesis option must complete a minimum of 30 credits, as follows:

- 15 credits in core courses
- a minimum of six credits in elective courses
- nine credits in Master’s Thesis

Course Option
Students in the course option must complete a minimum of 30 credits, as follows:

- 15 credits in core courses
- a minimum of 15 credits in elective courses

Prerequisite Discipline-Bridging Course
Students admitted to the MSMTR program, with the exception of students with a Bachelor of Science in Mechatronics Engineering, are required to complete the prerequisite discipline-bridging course MTR 501 Introduction to Mechatronics.

The prerequisite discipline-bridging course does not generate credits toward the completion of the degree.

The prerequisite-discipline course could be waived by the Mechatronics Engineering Admissions Committee, depending on the student’s background.

Waiver Policy
The prerequisite discipline-bridging course may be waived if the student has completed comparable course work at the undergraduate level. Students may be required to submit course documentation. A waiver is only granted after an official, sealed transcript is received by the AUS Office of Enrollment Management/Graduate Admissions.

The waiver must be established at the time of admission.

The following rules apply:

- Students may waive the prerequisite discipline-bridging course if similar undergraduate courses have been taken at an accredited university.
- Students with professional experience that indicates mastery of the discipline-bridging course content may be granted a waiver.
Core Courses (15 credits)
Students must complete the following courses:

- MTR 520 Embedded Systems for Mechatronics
- MTR 530 Modeling and Simulation of Dynamic Systems
- MTR 540 Advanced Control Systems
- MTR 690 Mechatronics Design
- MTR 695 Mechatronics Seminar
- NGN 500 Advanced Engineering Mathematics

Elective Courses (minimum of 6/15 credits)
Students in the thesis option must complete a minimum of six credits from the following list of courses; students in the course option must complete a minimum of 15 credits:

- MTR 605 Digital Signal Processing
- MTR 610 Automated Manufacturing Systems
- MTR 615 Artificial Intelligent Systems
- MTR 630 Real-Time Robotics Systems
- MTR 640 Nonlinear and Intelligent Control Systems
- MTR 644 Electric Drives for Mechatronics Systems
- MTR 645 Image Processing and Computer Vision
- MTR 650 Applied Linear Estimation
- MTR 694 Special Topics in Mechatronics Engineering
- MTR 696 Independent Study in Mechatronics Engineering

Students in both the thesis option and the course option may elect to take one elective course outside the program, with the approval of their advisor and the program director.

Master’s Thesis
Students in the thesis option must complete a program of research culminating in a thesis, for at least nine credits, that contributes to a selected area of knowledge.

A student must complete his/her thesis under direct supervision and guidance of a principal advisor. This principal advisor will serve as the chair of the student’s examining committee and is appointed no later than the end of the third semester of study in the program. The committee also includes two additional faculty members. One of the additional faculty members must be selected from outside the program. The committee could also include one or more co-advisor.

The thesis must be defended to the satisfaction of the thesis examining committee.

A complete guide for preparing the thesis, including the thesis proposal, thesis defense and deadlines, is given in the Master’s Thesis (Guides and Documents) folder available on iLearn and accessible using the following path: iLearn-Community-Office of Research and Graduate Studies (ORGS)-Graduate Studies.

For registration details, please refer to Thesis and Final Project under the Academic Policies and Regulations section of this catalog.
School of Business and Management

Dean
Hashem Dezhbakhsh

Associate Dean
A. Paul Williams

Director of Graduate and Executive Programs
Robert E. Bateman II

Master of Business Administration (MBA)
Marie-France Waxin, Director

The AUS Master of Business Administration (MBA) program helps individuals in the Gulf region think and act globally by integrating the latest business knowledge into problem solving. The program provides advanced management education in an environment that encourages students to extend their leadership capabilities. It is built on the premise that up-to-date expertise gives managers value-added capacity in a knowledge-based economy.

Through this program, students are prepared for leadership careers in both the private and public sectors. Students acquire a comprehensive foundation in the fundamental elements of business in a global environment. They also learn the skills and analytical tools for effective communication and decision making.

Individual participation is emphasized through class discussions, case study methodology and real-world projects in cooperation with other students in the class. Graduates of the MBA program are prepared to identify, analyze and understand the interrelationships among business organizations and international and domestic institutions in the UAE and throughout the world. Students also develop an awareness of societal and environmental needs and concerns as they relate to ethical, professional and socially responsible business practices. More details on the program are available at www.aus.edu/mba.

Program Educational Goals and Outcomes

The MBA program prepares students for careers in management and helps them develop the decision-making skills necessary to lead successful business enterprises. The curriculum presents global business perspectives and challenges students to apply them to the Gulf region. MBA graduates are expected to achieve the following objectives:

- **Proficiency in the core business knowledge required of an executive manager**
- Students will appropriately apply principles of economics, financial analysis, information and operations management, and marketing to the diagnosis of complex business problems.
- **Understanding of the interrelations between business organizations and other societal institutions**
- Students will use principles of ethics and social responsibility to understand the management of relationships between a business enterprise and its key internal and external stakeholders.
- **Teamwork, interpersonal, communication and leadership skills**
- Students will demonstrate graduate-level competence in team interaction and presentation skills, use of technology, writing and leadership through participation in projects that emphasize the role of the executive in managing change.
- **Decision-making skills rooted in critical thinking, analysis and problem solving**
- Students will have the ability to evaluate and select from alternative courses of action, using appropriate methods to consider and integrate data with the theory and practices common to business organizations.

Admission Requirements

In addition to meeting the university’s general graduate admission requirements, applicants must meet the specific requirements of the MBA program. Admission to the MBA program is competitive. Applicants are required to take the AUS Graduate Management Test. This exam is administered through the AUS Testing Center. The score on this exam is then considered with the student’s work experience and the undergraduate grade point average, particularly for the last two years of study. These results are used to assist the SBM Graduate Committee in determining the admission status of an applicant.

Students unable to travel to Sharjah prior to enrollment may submit a score of 500 or more on the Graduate Management Admission Test (GMAT), taken within the last five years.

Conditional Admission

Conditional admission to the MBA program is limited. During the semester in which they have conditional admission status, applicants must satisfy all admission requirements for the MBA program, including the requirement to earn an average of at least 3.00 in all coursework. Failure to do so will result in dismissal.

Proficiency Requirements

Prior to enrolling in MBA courses students must demonstrate proficiency in computer skills and basic statistics. These requirements can be met by passing an undergraduate university-level course in computer skills or statistics, respectively. Students who have not taken these courses may meet the proficiency requirements by earning a passing grade in a proficiency placement test.

Academic Load

An MBA student may register for up to nine credits per semester. Upon a student’s request, the program director can approve three additional credits if the student has achieved a cumulative GPA of 3.50 or above.

Academic Standing Policy

In addition to the university guidelines on academic dismissal, as outlined in the Academic Policies and Regulations section of this catalog, the following rule applies:

- A student is allowed to receive two Cs (C or C+) in courses in the MBA program. If the student receives a third C or C+, he/she is dismissed from the program.

Degree Requirements

To be awarded an MBA degree, students must complete 33 credits in MBA core courses and electives as follows:

- 24 credits in MBA core courses
- a minimum of six credits in elective courses

Students enrolled in the program also have the option to choose an area of concentration in one of the following fields: finance, human resource management, innovation and entrepreneurship, management consulting or public management.

Students who select an area of concentration are required to complete 33 credits in core courses and concentration electives as follows:
• 24 credits in MBA core courses
• a minimum of nine credits in concentration electives

Students may also be required to complete up to 16.5 credits in foundation courses at the beginning of their program.

Courses are offered in the evenings. The MBA program can be completed in 18 months, including summers, if all the foundation courses are required and 12 months if all the foundation courses are waived.

Foundation Courses Requirement

Students admitted to the MBA program may be required to complete a maximum of 16.5 credits in foundation courses, which serve as preparation for the core courses. The number of foundation courses required will normally depend on courses completed by the student as an undergraduate. Foundation courses may be waived when the waiver policy requirements are met.

Foundation Courses (16.5 credits)
• MBA 501 Foundations of Economics
• MBA 503 Financial Accounting for Managers
• MBA 504 Managerial Statistics
• MBA 505 Financial Management
• MBA 508 Analytical Methods and Modeling*
• MBA 509 Marketing Concepts*
• MBA 512 Organizational Behavior*

*Indicates a half-semester or compressed course format.

Waiver Policy

Students may qualify to waive any or all of the foundation courses. In general, a course may be waived if the student has completed comparable coursework at the undergraduate level. Students may be required to submit course documentation. Waivers are only granted after an official, sealed transcript is received by the AUS Office of Enrollment Management/Graduate Admissions. Waivers are evaluated at admission. Listed below are the waiver rules:

• Each of the foundation courses in the MBA program may be waived for students who have taken equivalent coursework at the undergraduate level. Two equivalent courses are required to waive each of the following foundation courses: MBA 501, 503 and 504. One equivalent course is required to waive MBA 505, 508, 509 and 512. Waiver consideration will only be given for courses taken at an accredited university. Only courses in which the student earned a grade of B or better will be considered.
• Students who waive the following foundation courses will be required to take the core courses indicated:

<table>
<thead>
<tr>
<th>Waived Foundation Course</th>
<th>Required Core Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBA 501</td>
<td>MBA 601</td>
</tr>
<tr>
<td>MBA 503</td>
<td>MBA 613</td>
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<tr>
<td>MBA 504</td>
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<td>MBA 505</td>
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<td>MBA 508</td>
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<td>MBA 509</td>
<td>MBA 614</td>
</tr>
<tr>
<td>MBA 512</td>
<td>MBA 612</td>
</tr>
</tbody>
</table>

• Students with professional experience and/or holders of commonly recognized certificates (e.g., CPA or CFA) that indicate mastery of the content of a foundation course may be granted a waiver.
• Students may be required to take a placement exam in order to waive a foundation course. Waiver exams must be completed at the beginning of the program.

Core Courses Requirement

To be awarded an MBA degree, students must complete 24 credits in core courses.

Core Courses (24 credits)
• MBA 601 Managerial Economics
• MBA 606 Management Information Systems
• MBA 609 Operations Management
• MBA 611 Advanced Financial Management or MBA 625 Public Financial Management (public management concentration only)
• MBA 612 Leadership and Change Management
• MBA 613 Accounting Analysis for Managers
• MBA 614 Marketing Management
• MBA 618 Strategic Management in a Global Environment

Substitution Policy

With permission of the SBM director of graduate programs, students may replace one core course with an elective course in a related subject, provided that the elective meets the educational objectives of the program.

Students may not substitute for a core course if the corresponding foundation course was waived.

In addition, the following restrictions apply:

• Students concentrating in finance cannot substitute MBA 611.
• Students concentrating in human resource management cannot substitute MBA 612.
• Students concentrating in management consulting cannot substitute MBA 612.
• Students concentrating in public management can substitute MBA 611 with MBA 625 only. This substitution is encouraged.

General MBA Degree

In addition to meeting the core courses requirements, students who do not elect an area of concentration must complete two elective courses (a minimum of six credits) selected from any MBA courses not counted as core or foundation courses. Electives selected from outside of the MBA program must be approved by the MBA program director.

Finance Concentration (9 credits)

Students may choose from the following or any other approved elective:
• MBA 632 Investment Analysis
• MBA 633 Financial Derivatives
• MBA 634 Commercial Banking
• MBA 635 Islamic Economics
• MBA 636 Islamic Banking and Finance
• MBA 637 Investing in Real Estate

Human Resource Management Concentration (9 credits)

Required Course (3 credits)
• MBA 661 Strategic Human Resource Management

Elective Courses (6 credits)

Students may choose from the following or any other approved elective:
• MBA 662 International Human Resource Management
• MBA 663 Staffing
• MBA 664 Training and Development

Innovation and Entrepreneurship Concentration (9 credits)

Required Course (3 credits)
• MBA 615 Innovation and Entrepreneurship

Elective Courses (6 credits)

Students may choose from the following or any other approved elective:
• MBA 680 Project Management
Management Consulting Concentration (9 credits)

Required Course (3 credits)

- MBA 670 Management Consulting

Elective Courses (6 credits)

Students may choose from the following or any other approved elective:

- MBA 610 Business Research Applications
- MBA 615 Innovation and Entrepreneurship
- MBA 680 Project Management
- MBA 690 Global Consulting Practicum

Public Management Concentration (9 credits)

Required Course (3 credits)

- MBA 620 Public Administration and the Policy Process

Elective Courses (6 credits)

Students may choose from the following or any other approved elective:

- MBA 621 Management of Nonprofit Organizations
- MBA 622 The Public-Private Partnership
- MBA 623 e-Government
- MBA 624 Ethics, Law, Democracy and Society

Academic Advising

The SBM Office of Graduate and Executive Programs provides academic and career advising to students through the program director, advisor and graduate faculty in the School of Business and Management. Additionally, the graduate committee provides assistance in advising as required. The graduate committee consists of faculty members who teach in the MBA program and are appointed on a yearly basis.

Master of Science in Accounting (MSA)

Taisier Zoubi, Head

The Master of Science in Accounting (MSA) program is designed to provide students with knowledge and preparation to pursue professional careers in public and private accounting; develop skills necessary to solve accounting problems that are of contemporary relevance and more challenging in the fields of accounting, finance and other business areas; and teach the required technical and nontechnical accounting competencies. Although pre-class readings and in-class lectures remain essential for presenting key accounting theories and concepts, the reinforcement and assessment methods are oriented toward experiential exercises that require the participants to apply the material to real-life cases. Thus, the program makes extensive use of case studies, individual and team projects and other “real-world” opportunities to use the material covered.

The MSA program creates additional employment opportunities and promotes the career success of our graduates. Career options for graduates will include positions in public accounting such as auditors, controllers, financial analysts and management consultants. This program will allow students to meet the current 150-semester-hour education requirement to take the Certified Public Accountant (CPA) Examination in most US states. The objective of the proposed accounting program is to give our students an edge in passing the CPA exam and to prepare them for careers in professional accountancy. The combination of undergraduate and graduate courses in the MSA program deepens students’ competencies in business in general and accounting in particular. This knowledge is needed to achieve professional certifications such as CPA, CMA and CIA—qualifications expected of top professionals in the accounting field. The MSA program will open a broader career path to students who enter public accounting as auditors, consultants, corporate accountants or financial analysts. The Big Four accounting firms in the region and other top employers will hire graduates from the MSA program particularly because of its solid auditing/assurance component.

Program Educational Goals and Outcomes

The MSA program prepares students for careers in accounting and helps them develop the decision-making skills necessary to lead successful business enterprises. The curriculum presents global business perspectives and challenges students to apply them to the Gulf region. MSA graduates are expected to achieve the following goals:

- Provide accounting students with the additional knowledge and preparation required to pass the CPA exam
- Students will gain knowledge to assess the financial, ethical and social implications of selecting various accounting policies to support decisions made by internal and external users of accounting information.
- Provide the skills necessary to solve challenging accounting problems that are of contemporary relevance in finance and other business areas
- Students will be able to integrate accounting skills and knowledge to resolve current complex accounting issues.
- Develop accounting skills and knowledge to facilitate career advancement in business or pursuit of further advanced study in accounting

Admission to the MSA program is competitive. Regardless of undergraduate major, to be considered for admission, each applicant to the MSA program is expected to have achieved a minimum undergraduate CGPA of 3.00, in addition to meeting the university’s graduate admission requirements. For details, please refer to Admission to Graduate Studies/General University Requirements for Graduate Admission section earlier in this catalog. Applicants with a lower CGPA may be granted conditional admission, but are generally expected to participate in a face-to-face interview. Such applicants may also be required to meet additional specific requirements of the MSA program.

Academic Load

An MSA student may register for up to nine credits per semester. Upon a student’s request, the Head of the Department of Accounting Graduate Committee (DAGC) can approve three additional credits if the student has
achieved a cumulative GPA of 3.50 or above.

**Academic Standing Policy**

In addition to the university guidelines on academic dismissal, as outlined in the Academic Policies and Regulations section of this catalog, the following rule applies:

- A student is allowed to receive two Cs (C or C+) in courses in the MSA program. If the student receives a third C or C+, he/she is dismissed from the program.

**Degree Requirements**

To be awarded an MSA degree, students must complete 30 credits in MSA core courses and electives as follows:

- 18 credits in core courses
- six credits in ACC elective courses
- six credits in MBA elective courses

**Prerequisite Courses**

Students admitted to the MSA program may be required to complete a maximum of 24 credits in courses, which serve as prerequisites to the MSA program degree requirements. All MSA students must meet this prerequisite requirement, whether by demonstrating completion of the required courses as an undergraduate at AUS, by demonstrating acceptable performance in equivalent courses at another accredited institution, or by completing the prerequisites before taking the corresponding graduate courses.

Students may qualify to waive any or all of the prerequisite courses. Waivers are evaluated by the Department of Accounting Graduate Committee at admission. Waivers are only granted after an official, sealed transcript is received by the AUS Office of Enrollment Management/Graduate Admissions.

**Prerequisite Courses (24 credits)**

- ACC 301 Intermediate Financial Accounting I
- ACC 302 Intermediate Financial Accounting II
- ACC 303 Cost Accounting
- ACC 305 Income Tax I
- ACC 360 Accounting Information Systems
- ACC 410 Auditing
- six credit hours in courses selected from:
  - ACC 306 Income Tax II
  - ACC 401 Advanced Financial Accounting

- ACC 413 Introduction to Accounting for Government and Non-Profit Entities
- ACC 420 International Accounting Standards

**Core Course Requirement**

To be awarded an MSA degree, students must complete 18 credits in core courses.

**Core Courses (18 credits)**

- ACC 610 Topics in Financial Accounting
- ACC 611 Auditing and Attestation
- ACC 612 Advanced Topics in Managerial and Cost Accounting
- ACC 613 Advanced Topics in International Financial Reporting Standards
- ACC 614 Regulatory Environment in Accounting
- ACC 615 Enterprise Database Systems

**Elective Courses (12 credits)**

In addition to meeting the core course requirements, students must complete two accounting (ACC) elective courses (six credits) and two MBA elective courses (six credits) as follows:

**ACC Elective Courses (6 credits)**

Students must select from the following list of courses:

- ACC 620 Forensic Accounting and Fraud Examination
- ACC 621 Ethical Environment and Corporate Governance
- ACC 622 Internal Auditing
- ACC 623 Financial Statement Reporting and Analysis
- ACC 624 Oil and Gas Accounting
- ACC 625 Tax Research
- ACC 626 Information Technology Auditing and Assurance
- ACC 627 Advanced International Taxation
- ACC 628 Fraudulent Financial Reporting

**MBA Elective Courses (6 credits)**

Students must complete two courses from the following:

- MBA 601 Managerial Economics
- MBA 606 Management Information Systems
- MBA 609 Operations Management
- MBA 611 Advanced Financial Management

**Area of Specialization**

Students interested in furthering their knowledge in the areas of auditing, taxation or forensic accounting may elect to complete their ACC electives in that area of specialization, as follows:

**Auditing**

- ACC 622 Internal Auditing
- ACC 626 Information Technology Auditing and Assurance

**Taxation**

- ACC 625 Tax Research
- ACC 627 Advanced International Taxation

**Forensic Accounting**

- ACC 620 Forensic Accounting and Fraud Examination
- ACC 628 Fraudulent Financial Reporting

**Academic Advising**

The Department of Accounting faculty provides academic and career advising to MSA students through the head of the department, advisor and graduate faculty in the department. Additionally, the Department of Accounting Graduate Committee (DAGC) provides assistance in advising as required. The graduate committee consists of all eligible graduate faculty members within the Department of Accounting.

The chair of the department and his assistant will be available in the evening on specified weekdays to address any academic concerns students may have. In practice, this advising often focuses on coaching participants on academic discipline or assisting them with practical matters that are difficult to resolve when campus offices are closed after 5:00 p.m. Program information will also be available on the AUS website at the following link: www.aus.edu/sbm/msa.

**Executive Master of Business Administration (EMBA)**

The Executive MBA program is designed for high-potential business leaders preparing to expand the position of their companies in world markets. Adapting state-of-the-discipline business knowledge to the needs of the local market, the EMBA helps to unlock the global growth potential of Gulf enterprises. A unique curriculum integrates liberal thought with professional education in a format that encourages active learning and immediate application to the challenges of executive management and organizational governance in a global context.

The focus is on development of leadership and decision-making skills; participants learn from cross-functional
business approaches, strategies, techniques and technologies around the world to identify useful new ideas and stimulate creative problem solving. The cohort-based approach promotes dialogue among participants and fosters a network of innovative thinkers who can create solutions that serve businesses throughout the region. Two travel seminars introduce participants to world markets in a structured setting.

Leadership building includes enhancing core competencies for effective management. Individual modules highlight key decisions on the use of human, financial and data resources. Other sessions consider executive problem-solving, development of strategy and effective communications. Participants learn to motivate others and to implement organizational growth initiatives. Strategic innovation and executive skill-set sessions are interwoven with modules that bring discipline-specific theory into practice.

Program Educational Goals and Outcomes

The EMBA program prepares graduates to take on new leadership responsibilities and feel confident in facing new business challenges. Specific objectives and outcomes include the following:

- Application of business knowledge to the development of organizational strategy
  Participants will apply principles of economics, financial management, marketing, information systems, human resource management and operations to the development of integrated organization strategies for growth and innovation.

- Management of relations between business organizations, stakeholders and social institutions
  Participants will use principles of ethics and social responsibility, knowledge of local expectations, and an understanding of the influence of the globalization process on corporate governance to position a business enterprise appropriately with key internal and external stakeholders worldwide.

- Exhibit leadership, teamwork, and interpersonal and communication skills at an executive level
  Participants will demonstrate an ability to use leadership techniques, high-level team interaction and presentation skills, application of technology, and effective writing in projects that emphasize the role of the executive in enhancing organizational performance.

- Application of critical thinking, analysis and problem-solving skills to executive decisions
  Participants will apply a variety of techniques to analyze problems critically; to develop, evaluate and select from alternative courses of action; and to implement decisions in an organizational context.

Admission Requirements

Admission requirements for the EMBA program limit participation to professionals with significant career growth potential. The standards are designed to ensure that each participant is able to contribute to the interaction of a motivated cohort.

Applications for admission to AUS graduate programs are processed through the Office of Enrollment Management/Graduate Admissions, which determines whether an applicant meets minimum university standards. Each applicant must satisfy the following requirements:

- hold a four-year bachelor’s degree from an accredited university recognized by AUS and the UAE Ministry of Higher Education and Scientific Research
- have maintained a minimum cumulative grade point average (CGPA) of 3.00 (on a scale of 4.00) or its equivalent, and 3.00 or its equivalent in 300- and 400-level courses in disciplines relevant to the graduate program. An applicant with a lower CGPA must present evidence of at least five years of relevant work experience after earning the bachelor’s degree and provide evidence of suitable preparation for graduate work. Such students may be admitted on a conditional basis, subject to passing all assessments during their first six months in the program.
- have attained a minimum iBT score of 80 or a minimum IELTS score of 6.50 (academic version)

The EMBA requires the completion of 45 credits in eight modules. Portions of each module are integrated with supporting elements from other modules to facilitate immediate application of new knowledge. All modules must be completed with a minimum grade of Pass to earn the degree.

Required Modules (45 credits)

- EMB 701 Leadership and the Executive
- EMB 702 Analytical Foundations
- EMB 703 Financial Management
- EMB 704 Process and Innovation
• EMB 705 Markets and Innovation
• EMB 706 Society and Governance
• EMB 711 Gulf to Global Strategy
• EMB 712 Executive Toolkit

Academic Advising

The SBM Office of Graduate and Executive Programs provides academic and career advising to participants through the program coordinator and the Director of Graduate and Executive Programs and members of the SBM Graduate Committee.
UPL 501 Fundamentals of Urban Planning (3-0-3). (Cross-listed as ARC 571). Introduces the discipline of urban planning. Surveys the history of the field as well as its links with other fields of environmental studies, such as architecture, urban design, geography, engineering and others. Overviews what planners do and the tools they use in their practice.

UPL 541 Planning Theory and Methods (3-0-3). Explores the theoretical foundations of planning and its associated methods. Examines the basic theoretical framework that fosters good planning practice. Reviews the classical theoretical paradigms of planning, examines the major roles played by practicing planners, and looks at the application of theory in dealing with such issues as community development, environmental protection, economic policies, political and administrative structure, and social equity.

UPL 547 Research Methods and Analysis (3-0-3). Introduces the quantitative and qualitative methods and techniques used in urban planning research and practice. Analytic approaches include research design, multivariate regression, survey research, case study research, evaluation and graphic data presentation. Emphasizes methods in the context of planning and urban policy research. Prerequisite/concurrent: UPL 501.

UPL 548 Environmental Planning (3-0-3). Provides a comprehensive overview of the field of environmental planning and how it relates to efforts intended to manage, organize and protect environmental resources. Reviews the political and administrative context of environmental planning. Addresses principles of sustainability, ethics and the law in relation to land, air, water and other natural resources. Prerequisite/concurrent: UPL 501.

UPL 550 Urban Economics and Analysis (3-0-3). Examines the economics of cities and urban problems. Undertakes economic analysis of the location and growth of urban and regional areas with emphasis on public policy issues. Discusses land-use patterns, measurement and change in regional economic activity, and urban problems such as transportation, housing, poverty and crime. Places special attention on local fiscal behavior, overlapping jurisdictions and the provision of local public goods, and intergovernmental fiscal relations. Prerequisite: UPL 501.

UPL 556 Spatial Analysis for Planners (4-0-3). Introduces key concepts and technical skills involved in analyzing spatial phenomena. Includes the following topics: spatial inferences, cartographic quality, geospatial data and geodatabase analysis. Introduces and applies key software tools in urban and regional contexts. Prerequisite/concurrent: UPL 501. Lab/Tech fee rate A applies.

UPL 562 Urban Infrastructure Planning (3-0-3). Explores the challenges and prospects for planning sustainable urban infrastructure. Examines the conceptual basis of infrastructure planning, as well as empirical cases of planning, financing and managing sustainable urban infrastructure. Reviews case studies and best practices of infrastructure planning worldwide and locally.

UPL 563 Urban Planning and Housing Policy (3-0-3). Provides an overview of housing policy as it relates to urban planning. Reviews different approaches to housing provision from around the world’s include data analysis, finance mechanisms. Considers housing typologies as well as policy issues specific to the UAE.

UPL 565 Land Use Planning Principles and Practice (3-0-3). Examines various theoretical and practice-based approaches to land use planning. Gives an overview of the various social, economic, political and legal influences on land use and the planning process and application appropriate to balance such influences. Prerequisite/concurrent: UPL 501.

UPL 572 Urban Transportation Systems Planning Techniques (3-0-3). Covers data collection, trip generation, trip distribution, factors underlying the choice of mode, traffic assignment, modeling and evaluation techniques, use of planning software packages, development and evaluation of alternatives. Prerequisite/concurrent: UPL 501.

UPL 574 Urban Transportation Systems Analysis (3-0-3). Explores the use of quantitative techniques for modeling urban transportation systems’ performance. Covers the application of graph theory and network analysis to transportation problems, and analytical approaches to formulate network equilibrium assignment problems and solution algorithms. Introduces dynamic traffic assignment. Prerequisite: UPL 572.

UPL 582 Theory and Principles of Urban Design (3-0-3). (Cross-listed as ARC 573). Examines major concepts, principles and theories of urban design. Reviews the historic development of urban design as a professional field and surveys current urban design issues, trends and practices in both the Western and non-Western/Islamic contexts. Prerequisite/concurrent: UPL 501.

UPL 584 Urbanism and Urban Form Analysis (3-0-3). Examines urban form elements, patterns and evolution. Focuses on the forces that have shaped cities in history and analyzes contemporary trends that impact urban form and regeneration. Explores methods of urban morphological analysis as related to urban design. Places special attention on the study of cities of the Middle East and Islamic societies. Prerequisite: UPL 501.

UPL 597 Urban Planning Internship (0-0-0). Consists of eight weeks (320 hours) of approved internship. At the end of the internship, the student must submit a report of the internship work experience. Course is offered on a Pass/Fail basis. Prerequisite: UPL 501. Registration fees apply.

UPL 667 Urban Planning Studio (12-0-6). Covers the application of substantive skills in urban planning. Focuses on comprehensive planning exercises for an urban area in the UAE/Gulf region, involving fieldwork and hands-on analysis and application. Emphasizes the methods and tools of preparing plans. Addresses development of baseline data; analysis of existing conditions; identification of strategic planning and development issues; forecasting of future conditions; review of development goals, objectives and policies; development and synthesis of alternative plans; evaluation of alternatives; and development of implementation strategies and programs that support policymaking. Prerequisites: UPL 501, UPL 556 and completion of a minimum of 15 UPL credits. Lab/Tech fee rate A applies. Must be taken two times for a total of 6 credits.

UPL 676 Transportation Systems Operations and Control (3-0-3). Studies the operation and control of transportation systems with emphasis on traffic characteristics, capacity analysis, traffic improvements, signalization, signs and marking, channelization, intersection capacity, and principles and techniques used to
improve the efficiency and safety of transportation systems. Prerequisite: UPL 572.

**UPL 686 Space, Society and the Public Realm (3-0-3).** Explores the nature of urban space and its role in the social being. Focuses on the potentials of space as a tool in shaping the public realm and nurturing citizenship. Examines critical issues of globalization and the transforming role of space in the post-industrial, informational city. Prerequisite: UPL 582.

**UPL 698 Final Project (6 credits).** Requires students to choose an applied research topic often in conjunction with a real planning problem and/or client. Students will produce a high-quality project report guided by an advisor and a minimum of two readers. The final project serves as a capstone course requiring students to draw on the basic knowledge, skills and techniques learned from their coursework. Graded as Pass/Fail. Prerequisite: approval of program director.

**UPL 699 Master's Thesis (6 credits).** Requires independent, significant original research conceived and developed by the student and guided by an advisor and a minimum of two readers. Students will demonstrate scholarly capabilities and expertise based on the theoretical knowledge and methodological skills they have developed in their previous coursework. The thesis experience serves as a capstone course for students who intend to pursue careers in research, teaching and/or scholarship. Graded as Pass/Fail. Prerequisite: approval of program director.

**Special Topic Courses**

**Special Topic (1 to 4 credits).** Presents a theoretical or practical topic proposed by the faculty beyond what is offered in existing courses. Can be repeated for credit. Prerequisites: topic specific. Lab/tech fee may apply.

Special topic courses are numbered as 594 or 694 courses. The three-letter course prefix reflects the field of study of the course.

Descriptions of particular special topic courses are made available in the college/school offering the course during registration.

**Independent Study**

Independent study is the umbrella term used to label two types of independent work: independent course and directed study.

For conditions governing registration in an independent study, please refer to the Registration in Independent Study Courses section under Academic Policies and Regulations.

**Independent Course (1 to 4 credits).** A course listed in the catalog but offered in an independent study format. The course is coded using the course number in the catalog.

Students are not allowed to repeat courses in an independent course format.

**Directed Study (1 to 4 credits).** An investigation under faculty supervision beyond what is offered in existing courses.

Directed study courses are numbered as 596 or 696 courses. The three-letter course prefix reflects the field of study of the course (e.g., independent study courses in UPL are coded as UPL 696).

**UPL 696 Final Project (6 credits).** Requires independent, significant original research conceived and developed by the student and guided by an advisor and a minimum of two readers. The final project serves as a capstone course requiring students to draw on the basic knowledge, skills and techniques learned from their coursework. Graded as Pass/Fail. Prerequisite: approval of program director.
College of Arts and Sciences

ELT 501 Advanced English Grammar (3-0-3). (Cross-listed as ENG 401). Examines the structure, function and meaning of contemporary English. Discusses issues relative to descriptive/prescriptive approaches to language and ESL instruction.

ELT 503 Contrastive Linguistics (3-0-3). Compares and contrasts English and Arabic phonology, morphology, syntax and semantics. Promotes a functional approach to language to demonstrate the applications of contrastive linguistics to ESL teaching.

ELT 505 Culture and the Language Teacher (3-0-3). Investigates how identities, values, assumptions, behaviors and communication styles affect teaching and learning a second language. Analyzes methods and approaches for cross-cultural research.

ELT 510 Research Methods and Academic Writing (3-0-3). Develops students’ academic writing competencies and research skills. Introduces students to quantitative and qualitative research methods and teaches them how to conduct and report research.

ELT 511 Linguistics for ESL Teachers (3-0-3). (Formerly ENG 511). Focuses on areas in linguistics relevant to ESL teachers. Explores ways of utilizing research and generalizations derived from linguistics to inform ESL teaching practice.

ELT 513 Language Acquisition and Development (3-0-3). Focuses on processes involved in acquiring first and second languages. Examines different theoretical perspectives explaining acquisition and analyzes the factors that affect language development and learning. Explores the implications of SLA research in ELT classroom contexts.

ELT 515 Methods and Materials Development (3-0-3). Examines traditional and contemporary approaches to English language teaching. Various aspects of classroom practice are analyzed, including teacher and learner roles, classroom management, and integrated versus separate teaching of the language skills.

ELT 517 Curriculum Design (3-0-3). Introduces students to the principles of ESL course design. Examines the stages of developing and evaluating learning centered curricula and materials. Prerequisite/concurrent: ELT 515.

ELT 521 Reading and Writing in ESL (3-0-3). Discusses various theoretical models dealing with teaching literacy skills in a second language to children and adults. Explores ways to adapt and apply these models for effective ESL instruction. Prerequisite: ELT 510.

ELT 523 Bilingual Education (3-0-3). Reviews different models of bilingual education and issues in bilingualism. Discusses how to achieve a balanced bilingual education system by examining the challenges posed by cultural and linguistic diversity in a bilingual education setting.

ELT 525 Pragmatics for ESL Teachers (3-0-3). Focuses on social implications of language use in social contexts (world English, international English, regional English or intranational English). Provides training for ESL/EFL teachers in practical and theoretical areas of pragmatics and teaches them how to prepare, present and evaluate lessons in pragmatics utilizing authentic materials. Prerequisite: ELT 511.

ELT 531 Sociolinguistics (3-0-3). Studies the relationship between language, society and culture. Investigates the implications of sociolinguistic research for ESL teachers. Prerequisite: ELT 510.

ELT 551 Language Testing and Evaluation (3-0-3). Covers the fundamental goals, principles, standards and uses of language assessment and language assessment research. Reviews the factors involved in assessing proficiency in second language skills and in selecting appropriate testing instruments and evaluation tools. Prerequisite/concurrent: ELT 515.

ELT 553 Technology in the ESL Classroom (3-0-3). Introduces a wide range of current applications of technology in the ESL classroom. Focuses on creating innovative and effective ESL learning and teaching environments using computers and other educational technologies. Prerequisite/concurrent: ELT 515.

ELT 567 ELT Leadership and Management (3-0-3). Introduces students to basic concepts in ELT leadership and management. Explores the areas of educational organizations, human resources in ELT, language program development and marketing as well as establishing stakeholder relations. Prerequisite: ELT 510.

ELT 611 Classroom Research (3-0-3). Reviews ESL classroom-based research as a means of understanding how ESL instruction and learning take place. Discusses research topics such as teacher talk, wait time, conversational repair, error correction, learning strategies and feedback. Prerequisite: ELT 510.

ELT 615 Quantitative and Qualitative Research in ELT (3-0-3). Surveys both quantitative and qualitative theoretical and epistemological approaches in TESOL research. Emphasizes how choices in research design and analytical procedures impact data collection and results. The course is applications-oriented using the results of established theory. Graduate students can use this course to develop their research project proposals. Prerequisite: ELT 510.

ELT 619 Practicum in TESOL (1 to 3 credits). Provides the opportunity to observe, explore and implement effective ESL teaching strategies. Involves weekly seminars in which the students discuss their classroom experiences and reflect on their personal growth as ESL teachers. Prerequisite: ELT 551.

ELT 698 Professional Project (3-0-3). Requires students to further develop their teaching skills by directing them to conceptualize, plan, adapt and apply innovative approaches to different components of English language teaching and learning. At the end of the course, students must write a project report to be defended in front of an examining committee. Graded as Pass/Fail.

ELT 699 Master’s Thesis (6 credits). Requires students to complete individual and original research work on a topic related to some aspect of TESOL that addresses both theoretical and practical aspects of ELT. The thesis is supervised by the thesis faculty supervisor and is defended to the satisfaction of the committee of three faculty members. Graded as Pass/Fail.

MTH 500 Mathematical Statistics with Applications (3-0-3). Introduces formulation of statistical models, transformations and expectations, methods of estimation and optimal theory, hypothesis testing and methods of evaluations, nonparametric statistics, and Monte Carlo simulation and applications using statistical packages. Prerequisite: admission to the MSTMTH program.

MTH 505 Ordinary Differential Equations (3-0-3). Covers the following topics: scalar and planar
autonomous systems, nonlinear systems and linearization, existence and uniqueness of solutions, matrix solution of linear systems, series solutions, phase plane analysis, stability analysis, bifurcation theory, Liapunov's uniform method, limit cycles and Poincare Bendixon theory. Prerequisite: admission to the MSMTH program.

MTH 506 Partial Differential Equations (3-0-3). Covers the classification of first- and second-order partial differential equations and analyzing its applications. Introduces eigenfunction expansions, separation of variables, and transform methods for solving PDEs, Green’s functions for PDEs, and the method of characteristics. Prerequisite: admission to the MSMTH program.

MTH 507 Financial Mathematics I (3-0-3). Provides a basic introduction to financial mathematics. Introduces mathematical perspective on the valuation of financial instruments such as futures and options, and their risk-management using the Cox-Ross-Rubenstein framework. Introduces the stochastic techniques employed in derivative pricing. Prerequisite: admission to the MSMTH program.

MTH 508 Mathematical Biology (3-0-3). Explores continuous and discrete methods for modeling biological systems. Covers ordinary differential equations models, multistate logical models and polynomial dynamical systems. Introduces phase portraits, bifurcation diagrams, perturbation theory, parameter estimation and system identification. Examines some biological systems and their mathematical models. Prerequisite: admission to the MSMTH program.

MTH 510 Real Analysis I (3-0-3). Covers Least upper bound axiom, the real numbers, compactness, sequences, infinite series, continuity, uniform continuity, sequences and series of functions, uniform convergence, differentiation, the Riemann integral and fundamental theorem of calculus, sequences and series of functions, and the Weierstrass approximation theorem. Prerequisite: admission to the MSMTH program.


MTH 512 Advanced Linear Algebra (3-0-3). Covers the proof-based theory of matrices, determinants, vector spaces, linear spaces, linear transformations and their matrix representations, linear systems, linear operators, eigenvalues and eigenvectors, invariant subspaces of operators, spectral decompositions, functions of operators, and applications to science, industry and business. Prerequisite: admission to the MSMTH program.

MTH 513 Advanced Probability (3-0-3). Covers probability spaces, random variables, independence, integration and expectation, convergence concepts, strong and weak laws of large numbers, convergence in distribution, characteristic functions and central limit theorem, conditional probability, and martingales. Prerequisite: MTH 511.

MTH 514 Combinatorics (3-0-3). Covers enumeration, combinatorial optimization, random methods in combinatorics (random graphs, random matrices, randomized algorithms), combinatorial designs, matroids, formal languages and combinatorics on words, combinatorial number theory, and combinatorial and symbolic methods in dynamical systems. Prerequisite: admission to the MSMTH program.


MTH 516 Financial Mathematics II (3-0-3). Covers modeling and pricing of equity options in the Black-Scholes framework including analytic methods, PDE methods and simulation methods. Examines pricing and hedging of exotic derivatives including path-dependent options (e.g., barriers, look-backs, Asian options). Explores extensions of the Black-Scholes model including local volatility and stochastic volatility models. Presents implementations of some models in the computer algebra system MATLAB. Prerequisite: admission to the MSMTH program.


MTH 518 Methods of Applied Mathematics (3-0-3). Covers integral equations, Volterra and Fredholm type equations, relation to differential equations, solutions by Neumann series, Green’s functions, asymptotic analysis of solutions, and perturbation techniques with eigenvalue problems. Prerequisite: admission to the MSMTH program.

MTH 519 Stochastic Processes (3-0-3). Covers random variables, independence, conditional expectations, Brownian motion, martingales, Markov processes, infinitely divisible distributions, and the Kolmogorov equations. Prerequisite: MTH 508.

MTH 520 Complex Analysis (3-0-3). Covers the following topics: analytic functions, Cauchy’s theorem and consequences, singularities and expansion theorems, maximum modulus principle, residue theorem and its application, compactness and convergence in space of analytic and meromorphic functions, elementary conformal mappings, Riemann mapping theorem, elliptic functions, analytic continuation and Picard’s theorem. Prerequisite: admission to the MSMTH program.

MTH 565 Numerical Analysis (3-0-3). Covers interpolation, numerical evaluation of definite integrals and solution of ordinary differential equations, stability and convergence methods, and error estimates. Prerequisite: admission to the MSMTH program.

MTH 570 Optimal Control Theory (3-0-3). Introduces deterministic optimal control. Covers examples involving calculus of variations, optimal trajectories, and engineering control problems. Prerequisite: admission to the MSMTH program.

TRA 500 Principles and Strategies of Translation (3-0-3). Provides advanced training in principles and methods of translation from English to Arabic and vice versa. A variety of text types are covered, ranging from legal to journalistic genres.

TRA 503 Theoretical Models of Translation (3-0-3). Provides a conceptual map of translation studies and outlines the various theoretical approaches and trends that impact the practice of translation. Introduces the range of factors that govern the process of translation and to the theoretical underpinnings that have motivated different attitudes to translating and translations. Prerequisite: TRA 500.

TRA 504 Discourse Semantics and Pragmatics in Translation (3-0-3). Addresses the needs of the practicing translator and interpreter within a discourse framework. Advanced training in semantics and pragmatics is provided, and linguistic analysis in these domains is re-considered from the vantage point of cross-cultural communication.

TRA 505 Interpreting and the Profession I (3-0-3). Provides the students with high-level training in those interpreting skills most relevant to the translator at work. Provides advanced training in liaison and consecutive interpreting with a focus on professional standards and community needs. Theoretical insights into the process of interpreting are presented and placed within an overall, practice-driven model of the process. Prerequisite: approval of program director.

TRA 509 Interpreting and the Profession II: Simultaneous Interpreting (3-0-3). Builds on TRA 505 and provides high-level training in those skills most relevant to Simultaneous Interpreting (SI), including professional standards and international conventions as well as equipment simultaneous interpreters use. Theoretical insights into the process of interpreting are presented and placed within an overall, practice-driven model of the process. Prerequisite: TRA 505.

TRA 510 Research Methods and Academic Writing (3-0-3). Examines academic writing conventions and research methods. Addresses quantitative and qualitative research approaches. Deals with the requirements of preparing/writing MA theses.

TRA 512 Terminology, Arabicization and the Translator (3-0-3). Introduces the field of terminology and reviews it within the work of the translator. Explains term formation, standardization, term banks and coordination, among others. Reviews the process and problems of Arabicization and its impact on translation into Arabic. Demonstrates the application of theoretical framework of terminology and Arabicization on translation work.

TRA 556 Rhetoric for Translators (3-0-3). Surveys the various traditions within both English and Arabic grammar and rhetoric and their application to translation. Develops and applies a text-linguistic model rooted in rhetorical thinking.

TRA 558 Contrastive Linguistics and Translation (3-0-3). Deals with how English and Arabic compare and contrast at various levels of linguistic organization: phonology, morphology, syntax and semantics. A discourse pragmatic perspective, together with a functional approach to the lexico-grammar, is promoted throughout to enable students to look at the way texts are organized functionally. Prerequisite: TRA 500.

TRA 610 Intercultural Communication and Translation (3-0-3). Addresses the interface between culture and translation in intercultural communication between Arabic and English. Examines macro and micro culture and the translational strategies used in cross-cultural communication through translation. Prerequisite: approval of program director.

TRA 630 Practicum (0-0-0). Provides the opportunity for practical hands on experience in translation and/or interpreting. Involves working within a translation and/or interpreting organization and reporting back weekly to the practicum supervisor over a period of four weeks. Graded as Pass/Fail. Prerequisite: approval of program director.

TRA 699 Master’s Thesis (6 credits). Requires students to complete an extended piece of individual research (10,000–12,000 words) on a topic within translation/interpreting studies, including an extended translation (c. 5000 words) and a commentary, chosen in consultation with the thesis faculty supervisor. Emphasis is placed on the theoretical and practical aspects of translating or interpreting. The thesis must be completed within two consecutive academic semesters. An extension may be allowed if a candidate presents acceptable mitigating circumstances. The thesis is defended to the satisfaction of a committee composed of three faculty members. Graded as Pass/Fail. Prerequisite: approval of program director.

Independent Study

Independent study is the umbrella term used to label two types of independent work: independent course and directed study.

For conditions governing registration in an independent study, please refer to the Registration in Independent Study Courses section under Academic Policies and Regulations.

Directed Study (1 to 4 credits). An investigation under faculty supervision beyond what is offered in existing courses.

Directed study courses are numbered as 596 or 696 courses. The three-letter course prefix reflects the field of study of the course (e.g., independent study courses in TESOL are coded as ELT 596).

Special Topic Courses

Special Topic (1 to 4 credits). Presents a theoretical or practical topic proposed by the faculty beyond what is offered in existing courses. Can be repeated for credit. Prerequisites: topic specific. Lab/tech fee may apply.

Special topic courses are numbered as 594 or 694 courses. The three-letter course prefix reflects the field of study of the course.

Descriptions of particular special topic courses are made available in the college/school offering the course during registration.
College of Engineering

CHE 510 Transport Phenomena (3-0-3). Covers the following topics: differential analysis of momentum; heat and mass transport; models transport processes; and formulation of appropriate boundary conditions, mathematical solutions and interpretation of results. Prerequisite: NGN 500.

CHE 511 Advanced Chemical Engineering Thermodynamics (3-0-3). Investigates advanced concepts in thermodynamics. Includes in-depth study of the following topics: fundamental laws of thermodynamics, equations of state, property relations for pure materials and mixtures, phase equilibria and intermolecular forces. Prerequisite: admission to the MSChE program.

CHE 512 Advanced Kinetics and Reactor Design (3-0-3). Covers the following principles of chemical reaction and reactor design and analysis: non-elementary reaction kinetics, estimation and reactor analysis and design. Prerequisite: admission to the MSChE program.

CHE 513 Advanced Materials Science (3-0-3). Introduces advanced materials for engineers, emphasizing process-structure-property relations. Covers concepts in materials science, engineering and technology dealing with traditional and advanced materials, surface science and engineering, evaluation and standards. Prerequisite: admission to the MSChE program.

CHE 514 Environmental Engineering (3-0-3). Provides a review of fundamentals, applied knowledge and recent advances in environmental engineering. Covers the following topics: causes of environmental pollution; environmental regulations; mass and energy balance for environmental systems under steady state and transient conditions; and contaminant transport in air, water and solids. Focuses on microbiology and reaction kinetics related to the environment and the application of environmental principles to water and wastewater treatment, air pollution control and solid waste management. Prerequisite: admission to the MSChE program.

CHE 610 Catalysis and Reaction Engineering (3-0-3). Introduces the fundamental concepts underlying catalytic processes and their application in reactor design. Covers the following topics: molecular theories of adsorption and surface reactions on catalysts; catalyst characterization techniques; transport in catalysts and shape selective catalysts; and applications in fixed-bed catalytic reactors, fluidized bed reactors and multiphase reactors. Prerequisite: admission to the MSChE program.

CHE 611 Biomedical Engineering and Biotechnology (3-0-3). Explores chemical engineering concepts related to the human body. Covers the following topics: body material balances, blood properties and physiology, circulatory dynamics, neuroprosthetics, body heat exchange, body thermoregulation, heat transfer in tumors, pharmacokinetic models, non-invasive imaging, orthopedics, biomaterials, membrane transport, tissue engineering and drug delivery systems. Assumes a basic understanding of physiological functions. Prerequisite/concurrent: NGN 500.

CHE 612 Advanced Process Analysis and Control (3-0-3). Covers the following topics: linear multi-input multi-output (MIMO) systems; state-space representation of process dynamic systems; controllability and observability analysis; stability analysis; frequency-domain analysis and system identification; controller synthesis for multivariable process systems; decentralized control, state feedback control, model predictive control and optimal control; digital control systems-Z transforms, discrete time models, closed loop analysis and digital control system implementation; and application of advanced control concepts to chemical process units. Prerequisite: NGN 500; prerequisite/concurrent: NGN 509.

CHE 613 Advanced Materials (3-0-3). Introduces advanced materials for engineers, emphasizing process-structure-property relations. Covers concepts in materials science, engineering and technology dealing with traditional and advanced materials, surface science and engineering, evaluation and standards. Prerequisite: admission to the MSChE program.

CHE 614 Environmental Engineering (3-0-3). Provides a review of fundamentals, applied knowledge and recent advances in environmental engineering. Covers the following topics: causes of environmental pollution; environmental regulations; mass and energy balance for environmental systems under steady state and transient conditions; and contaminant transport in air, water and solids. Focuses on microbiology and reaction kinetics related to the environment and the application of environmental principles to water and wastewater treatment, air pollution control and solid waste management. Prerequisite: admission to the MSChE program.

CHE 615 Seminar (1-0-0). Introduces research methodologies. Explores the planning and realization of research projects. Examines current research issues in engineering using case studies that emphasize the utilization of applied research in designing engineering systems. Graded as Pass/Fail. Prerequisite: admission to the MSChE program.

CHE 616 Professional Project (3 credits). Requires an approved professional project on selected area of chemical engineering for completion of the MS degree. Includes development of the project concept, investigation of needs, initial data collection and assembly of written and field materials necessary to conduct a professional project, as well as exploration of alternative means to conduct the project. Requires a report and final presentation to the examining committee. Graded as Pass/Fail. Prerequisite: approval of department head; prerequisite/concurrent: CHE 695.

CHE 695 Master’s Thesis (9 credits). Requires students to complete original research work in the field of study. Requires the thesis to be completed under the supervision of a faculty member serving as thesis advisor, and a final defense to the examining committee. Graded as Pass/Fail. Prerequisite: approval of department head; prerequisite/concurrent: CHE 695.

COE 530 Advanced Computer Networks (3-0-3). Focuses on advanced topics in computer networking and performance modeling. Covers the following: performance modeling and simulation, congestion control and quality of service (QoS) techniques, overview of computer networks security, and recent advances in computer networks. Prerequisite: admission to the MSCoE program.

COE 531 Advanced Software Engineering (3-0-3). Covers fundamental principles of software engineering with emphasis on methodologies for requirements engineering, design, and verification and validation. Explores recent research trends in software engineering. Prerequisite: admission to the MSCoE program.

COE 532 Advanced Embedded Systems and Industrial Automation (3-0-3). Covers the following topics: embedded systems hardware, advanced embedded systems programming and interface, serial communicates and control area networks, real-time operations of embedded systems, supervisory control and data acquisition (SCADA) systems, distributed control systems (DCS) and embedded systems applications. Prerequisite: admission to the MSCoE program.

COE 533 Advanced Computer Architecture (3-0-3). Covers techniques of quantitative analysis and
evaluation of modern computing systems. Emphasizes the major component subsystems of high-performance computers: pipelining, instruction level parallelism, memory hierarchies, input/output and network-oriented interconnections. Prerequisite: admission to the MSCoE program.

COE 630 Wireless Networks (3-0-3). Explores advanced concepts in wireless networking and mobile communications. Covers the following topics: antennas and multipath propagation, wireless propagation modeling, multiple access, spread spectrum, modulation, coding and error control, orthogonal frequency division multiplexing (OFDM), cellular wireless networks, wireless local area networks (LANs), mobile Internet Protocol (IP), ad hoc networks, Bluetooth, transmission control protocol (TCP) over wireless, Interoperability for Microwave Access (WiMAX), satellite networks, security issues in wireless networks and sensor networks. Prerequisite: admission to the MSCoE program.

COE 632 Advanced Database Systems (3-0-3). Covers the following advanced topics in database systems: file structures, indexing techniques, query processing and optimization, concurrency control and backup and recovery Extensible Markup Language (XML) databases and languages, and mobile databases and data mining. Prerequisite: admission to the MSCoE program.

COE 633 Advanced Internet Computing (3-0-3). Covers the following advanced topics in Internet computing: search engines; web-server technologies; and web-services technologies; and web-services architectures. Prerequisite/concurrent: COE 531.

COE 634 Computer-Aided Design and Optimization of Digital Systems (3-0-3). Covers the following topics in computer-aided design of very-large-scale integration (VLSI) circuits: functional verification; logic synthesis; verification of combinational and sequential circuits; technology mapping; and logic simulation, optimization and testing. Prerequisite: COE 533.

COE 635 Optical Networks (3-0-3). Covers the following advanced concepts in optical communications and networking: single-mode and multimode fibers, fiber loss and dispersion, fiber nonlinearities, lasers and optical transmitters, photo-detectors and optical receivers, single-channel system design, synchronous optical network (SONET)/synchronous digital hierarchy (SDH) networks, Wavelength-Division Multiplexing (WDM) components, WDM network design issues, wavelength routing and assignment, protection and restoration in optical networks, and control and management of optical networks. Prerequisite: admission to the MSCoE program.

COE 695 Seminar (1-0-0). Introduces research methodologies. Explores the planning and realization of research projects. Examines current research issues in engineering using case studies that emphasize the utilization of applied research in designing engineering systems. Graded as Pass/Fail. Prerequisite: admission to the MSCoE program.

COE 698 Professional Project (3 credits). Requires an approved professional project on selected area of computer engineering for completion of the MS degree. Includes development of the project concept, investigation of needs, initial data collection and assembly of written and field materials necessary to conduct a professional project, as well as exploration of alternative means to conduct the project. Requires a report and final presentation to the examining committee. Graded as Pass/Fail. Prerequisite: approval of department head; prerequisite/concurrent: COE 695.

COE 699 Master's Thesis (9 credits). Requires students to complete original research work in the field of study. Requires the thesis to be completed under the supervision of a faculty member serving as thesis advisor, and a final defense to the examining committee. Graded as Pass/Fail. Prerequisite: approval of department head; prerequisite/concurrent: COE 695.

CVE 521 Finite Element Method (3-0-3). Introduces the theory and application of modern structural analysis. Emphasizes finite element formulations for truss, frame, plane stress, plane strain and axisymmetric problems. Covers variational principles and isoparametric formulation. Introduces fundamentals of nonlinear analysis concepts. Covers computer modeling and practical analysis of large structural systems. Prerequisite: admission to the MSCE or MSME program.

CVE 522 Advanced Water Resources Engineering (3-0-3). Presents advanced hydrologic and hydraulic principles in planning, modeling and designing storage, irrigation, drainage, flood control and related water resource facilities. Covers the following topics: unsteady and non-uniform flow, conveyance channels and spillways, control and diversion structures, outlet works, energy dissipation, hydraulic machinery, flow measurements and reservoir hydraulics. Employs applicable case studies. Prerequisite: admission to the MSCE program.

CVE 523 Advanced Transportation Systems (3-0-3). Focuses on transportation systems modeling, simulation, analysis and evaluation techniques. Covers transportation systems operations, traffic signal systems design and optimization. Includes intelligent transportation systems (ITS) concepts and applications. Uses available software packages to evaluate transportation systems performance and ITS applications. Prerequisite: admission to the MSCE program.

CVE 620 Advanced Construction Planning and Control (3-0-3). Covers the following topics: application of advanced planning and control techniques critical to the success of construction projects, advanced resource allocation and leveling, time-cost optimization, project monitoring, updating and control, stochastic scheduling, contractual implications of construction schedules, analysis of time-related change orders and delays, schedule diagnostics, and advanced use of construction planning and scheduling software. Employs case studies from the construction industry. Prerequisite: admission to the MSCE program.

CVE 621 Analysis and Design of Tall Buildings (3-0-3). Introduces design strategies for tall buildings. Covers the following topics: selection of the structural systems for tall buildings; modeling of gravity, wind and earthquake loads using relevant codes; structural modeling and static and dynamic analysis of tall buildings;
design of structural elements and effects of creep, shrinkage and temperature; and P-Delta effects and instability of tall buildings. Emphasizes the use of computers in analysis and design of tall buildings. Prerequisite: admission to the MSCE program.

CVE 622 Physical and Chemical Processes in Environmental Engineering (3-0-3). Explores advanced analysis and design methods for various environmental engineering problems in water treatment, wastewater treatment, air pollution control and water quality management. Covers the following topics: materials transport, reaction kinetics, reactor modeling, separation processes, disinfection and process optimization. Prerequisite: admission to the MSCE program.

CVE 623 Advanced Transportation Planning Techniques (3-0-3). Presents an overview of both theoretical and applied issues in planning transportation systems. Focuses on everyday planning-oriented problems associated with development and project evaluation issues and techniques with emphasis on the development, calibration and validation of master transportation plans and traffic impact study analysis. Covers engineering economics and procedures for traffic impact studies. Prerequisite: admission to the MSCE program.

CVE 624 Advanced Geotechnical Engineering (3-0-3). Covers site investigation with an emphasis on advanced site testing, and shallow and deep foundations. Includes footing and rafting for difficult subsoil conditions, excavation support systems, groundwater control, slope stability, soil improvement and construction monitoring techniques. Explores offshore geotechnical engineering and elements of geotechnical earthquake engineering. Prerequisite: admission to the MSCE program.

CVE 625 Highway Bridge Design (3-0-3). Introduces highway bridge design, analysis and evaluation based on the American Association of State Highway and Transportation Officials (AASHTO) Load and Resistance Factor Design (LRFD) Bridge Design Specifications. Covers the following topics: types of bridges, highway bridge loading, bridge analysis, deck slabs, composite steel bridge design, prestressed concrete girders, substructure design and bridge rating. Prerequisite: admission to the MSCE program.

CVE 695 Seminar (1-0-0). Introduces research methodologies. Explores the planning and realization of research projects. Examines current research issues in engineering using case studies that emphasize the utilization of applied research in designing engineering systems. Graded as Pass/Fail. Prerequisite: admission to the MSCE program.

CVE 698 Professional Project (3 credits). Requires an approved professional project on selected area of civil engineering for completion of the MS degree. Includes development of the project concept, investigation of needs, initial data collection and assembly of written and field materials necessary to conduct a professional project, as well as exploration of alternative means to conduct the project. Requires a report and final presentation to the examining committee. Graded as Pass/Fail. Prerequisite: approval of department head; prerequisite/concurrent: CVE 695.

CVE 699 Master’s Thesis (9 credits). Requires students to complete original research work in the field of study. Requires the thesis to be completed under the supervision of a faculty member serving as thesis advisor, and a final defense to the examining committee. Graded as Pass/Fail. Prerequisite: approval of department head; prerequisite/concurrent: CVE 695.

ELE 540 Principles of Digital Communications (3-0-3). Reviews random processes. Covers representation of bandpass signals and systems, baseband and bandpass digital modulation schemes, optimum receiver design and performance analysis, channel capacity, and block and convolutional channel coding and decoding schemes. Prerequisite: approval of department head.

ELE 542 Advanced Electromagnetics (3-0-3). Covers the following topics: Maxwell’s equations; electromagnetic boundary conditions; potentials and the representation of electromagnetic fields; theorems of field calculations (uniqueness, duality, equivalence, reciprocity and Babinet’s principles); plane, cylindrical and spherical waves; polarization properties of waves; and waveguides and elementary antennas. Prerequisite: admission to the MSEE program.

ELE 543 Analog Microelectronics (3-0-3). Covers analysis and design of advanced electronic circuits. Explores topics such as electronic device modeling, processing and layout, current mirrors, noise analysis, voltage reference and regulators, Opamp design, OTAs and filter circuits. Prerequisite: admission to the MSEE program.

ELE 544 Advanced Signal Processing (3-0-3). Explores topics such as signal representation and system response, signal sampling and reconstruction, convolution, transfer function and system characteristics, digital filter design and realization, adaptive filters, spectral analysis, multirate signal processing, time-frequency analysis and wavelets. Prerequisite: admission to the MSEE program.

ELE 545 Power System Operation and Control (3-0-3). Introduces economic operation, and unit commitment of power systems. Covers modeling of system components and control equipment, automatic control of generation and frequency regulation, and aspects of interconnected operation. Prerequisite: admission to the MSEE program.

ELE 546 Advanced Power Electronics (3-0-3). Covers operation and modeling of power electronic devices, DC/DC converters, single phase and three phase inverters, different type of PWM techniques, theory of space transformation, space vector representation and space vector PWM inverters. Includes DSP based control and implementation of power converters and power electronics applications in renewable energy systems. Prerequisite: admission to the MSEE program.

ELE 640 Bioelectric Phenomena (3-0-3). Provides an overview of the following topics: electrical sources and electric fields, membrane biophysics, action potentials, volume conductor fields, electrophysiology of the heart, electric and magnetic lead fields, electroencephalography (EEG) and magnetoencephalography (MEG). Prerequisite/concurrent: NGN 500.

ELE 641 Advanced Microwave Engineering (3-0-3). Covers transmission-line theory; microstrip and coplanar lines; S-parameters; signal-flow graphs; matching networks; microwave devices; design, fabrication and measurements of microwave-integrated circuits using CAD tools; radar equation; resolution techniques; calibration; scatterometers; and scattering models. Prerequisite/concurrent: NGN 500.

ELE 642 Digital and Wireless Communications (3-0-3). Covers the following topics: signal design for communications over band-limited channels, optimum and suboptimal receiver structures for band-limited channels, adaptive equalization, communications over mobile radio channels with fading and mitigation.
techniques against channel fading. Prerequisite: ELE 540.

ELE 643 Image and Video Processing (3-0-3). Provides an overview of the principles and techniques of digital image processing in applications related to digital imaging system design and analysis. Covers the following topics: analysis and implementation of image and video processing algorithms and standards, methods and filters for image enhancement and restorations, source and transform coding techniques for lossless and lossy compression, and basic elements of object recognition systems. Prerequisite/concurrent: ELE 500.

ELE 644 Dynamics and Control of Electrical Drives (3-0-3). Covers dynamic models of DC and AC machines, torque and speed control of DC motors, PWM inverters, scalar control, field oriented control, and direct flux/torque control of induction motors. Prerequisite: admission to the MSEE program.

ELE 645 High Voltage Engineering (3-0-3). Covers the following topics: destructive and non-destructive testing of power system components; breakdown mechanism of gas, liquid and solid insulating materials; generation and measurement of high-voltage AC; and DC and impulse voltages and non-destructive testing such as surface and internal discharges, capacitance and loss factor. Prerequisite: admission to the MSEE program.

ELE 646 Radio Frequency Integrated Circuits (3-0-3). Covers design of advanced radio frequency integrated circuits as it applies to contemporary electronic systems. Includes RFIC systems and architectures, low-voltage MOS, transceiver complex circuits, RF signal processing, RF power amplifiers and linearization, PLL topologies, frequency synthesizers, phase noise analysis, layout considerations, packaging of RF circuits and design case studies. Use of software tools and analytical techniques for circuit design and simulations. Prerequisite: admission to the MSEE program.

ELE 647 Digital Protection of Power Systems (3-0-3). Covers digital relay hardware, phasor computations, frequency estimation techniques, digital protection algorithms, fault location techniques, signal processing and artificial intelligence for relays, relay testing, relay modeling and simulation. Prerequisite: admission to the MSEE program.

ELE 648 Pattern Classification (3-0-3). Covers description of the elements of pattern recognition systems, Bayesian decision theory and parameter estimation, maximum likelihood estimation, linear discriminant analysis, dimensionality reduction techniques, neural networks, clustering techniques, and Gaussian Mixture Models. Provides a description of decision tress, support vector machines and Hidden Markov Models. Prerequisite: approval of department head.

ELE 695 Seminar (1-0-0). Introduces research methodologies. Explores the planning and realization of research projects. Examines current research issues in engineering using case studies that emphasize the utilization of applied research in designing engineering systems. Graded as Pass/Fail. Prerequisite: admission to the MSEE program.

ELE 698 Professional Project (3 credits). Requires an approved professional project on selected area of electrical engineering for completion of the MS degree. Includes development of the project concept, investigation of needs, initial data collection and assembly of written and field materials necessary to conduct a professional project, as well as exploration of alternative means to conduct the project. Requires a report and final presentation to the examining committee. Graded as Pass/Fail. Prerequisite: approval of department head; prerequisite/concurrent: ELE 695.

ELE 699 Master’s Thesis (9 credits). Requires students to complete original research work in the field of study. Requires the thesis to be completed under the supervision of a faculty member serving as thesis examining, and a final defense to the advisory committee. Graded as Pass/Fail. Prerequisite: approval of department head; prerequisite/concurrent: ELE 695.

ESM 520 Management for Engineers (3-0-3). Explores a full range of integrated topics for individuals in both public and private sector organizations who coordinate and manage engineering projects, personnel, resources and systems. Covers human resources, communication skills, leadership styles, team building, the basics of marketing management and financial management, and the management needs in multicultural and multinational environments. Integrates the core management principles with engineering experiences using case studies and applications. Prerequisite: admission to the MSEE program.

ESM 532 Introduction to Applied Operations Research (3-0-3). (Formerly ESM 632). Covers formulation of mathematical models and explores solution techniques such as linear programming, sensitivity and cost analysis, simulation and stochastic modeling. Applications include transportation and networks, inventory control, and production planning and control. Team project is required. Prerequisite/concurrent: ESM 515.

ESM 555 Information Technology Management (3-0-3). Provides an overview of the important managerial and strategic issues associated with using IT in today’s networked organization. Covers IT/strategy, IT/business strategy alignment, IT-enabled business models, IT governance, managing integration with partners, planning and implementing new systems in organizations, and managing IT outsourcing. Previous knowledge of statistics is required. Includes case studies and team projects. Prerequisite: admission to the MSEE program.

ESM 570 Project Management (3-0-3). Covers the elements of project management critical to the success of engineering projects: project management framework, strategic management and project selection, scope management, time management, cost management, risk management, and project monitoring and control. Integrates and clarifies the principles and tools through case studies from a variety of disciplines. Prerequisite/concurrent: ESM 515 or approval of program director.

ESM 575 Advanced Engineering Economy (3-0-3). Covers the theory and application of advanced engineering economy principles and methods. Studies the effects of inflation, depreciation and taxes, cost estimation, sensitivity analysis, risk and uncertainty, capital budgeting, multi-attribute decision making, advanced
asset replacement analysis and real option analysis. Includes case studies and a term project related to the topic. Prerequisite: ESM 515.

ESM 580 IT Project Management (3-0-3). Provides an overview and explores concepts of IT project management. Includes the following topics: IT project planning and its relationship to CMMI levels, IT project risk management and configuration management techniques for IT projects. Discusses prevailing alternative life-cycle models such as RUP/Agile/SCRUM and their relationship to PMBOK and CPM. Covers IT project estimation techniques such as COCOMO. Includes case studies in IT project management. Prerequisite: admission to the MSESM program.

ESM 600 Research Methodology (3-0-3). Introduces the methodology of scientific research. Covers topics such as internal and external construct validity and reliability issues in research; normative, prescriptive and descriptive theories; process and variance approaches to theory formulation; introduction to quasi-experimental design and case study methodologies; practical strategies for literature review; APA and IEEE style guidelines; and presenting research results and conclusions. Includes invited speakers from industry and business. Prerequisites: ESM 515 and ESM 520.

ESM 612 Advanced Information Systems Management (3-0-3). Introduces topics in IT services management, resource planning and governance. Covers IT value-chain and related processes. Discusses IT portfolio management and maturity models. Discusses enterprise architectures and outsourcing strategies. Includes an overview of CMMI, CoBIT and ITIL. Prerequisite: ESM 555.

ESM 614 Communication and Network Management (3-0-3). Addresses the key technological and managerial issues related to the design, operation and maintenance of computer networks and the enterprise telecommunication system. Provides an overview of telecom technologies, including telecom architectures and protocols, voice technologies, LANs, WANs, cellular and mobile networks, satellite systems and Internet/intranet architectures. Covers feasibility analysis, service level agreements, service quality monitoring, network planning, network management, survivability, telecom equipment procurement, contracting, outsourcing, technology forecasting and replacement, telecom investment decisions, legal and regulatory issues in telecommunications, and performance modeling and monitoring tools. Includes case studies related to the topic. Prerequisite: ESM 555.

ESM 620 Security Management (3-0-3). Provides a solid background in the administration and management of security for computer-based systems. Introduces the management of security, including managing identity, IT threats, vulnerabilities and trust. Covers planning for security and contingencies, the development of security programs and policies, security models, practices and standards, security risk management, personnel and security, and legal and ethical issues in security. Prerequisite: ESM 555.

ESM 624 Knowledge Management (3-0-3). Introduces the roots of knowledge and knowledge management (KM); theories/definitions of knowledge; theories, applications, tools, and practices of KM; the Knowledge Management Life-Cycle Framework and Models; significant issues in KM (e.g., best practices, culture, economics, strategy, intellectual capital and sustainable innovation). Includes case studies related to the topic. Prerequisite: ESM 555.

ESM 630 Quality Engineering and Management (3-0-3). Covers the techniques and applications of quality control and management. Includes total quality management, quality award models, service quality, statistical process control charts, process capability analysis, and six sigma. Prerequisite: ESM 515.

ESM 634 Advanced Modeling and Simulation (3-0-3). (Formerly ESM 540). Covers advanced principles associated with systems modeling and simulation using contemporary software tools. Includes topics such as problem formulation, queueing theory, discrete event simulation modeling, and analysis of alternatives and selection of the optimum solution. Prerequisite: ESM 515.

ESM 636 Human Resources Management (3-0-3). Covers human resource planning processes, tools and techniques, job specification and methods of job analysis. Describes the requirements and ethical context of HRM methods of recruitment, evaluation, career training and development programs, salary systems and employee benefits, HR information systems and international HR issues. Integrates HR management practices and methodologies with engineering experiences. Prerequisite: ESM 520.


ESM 640 Supply Chain Management (3-0-3). Explores key issues related to the design, planning and operation of supply chains. Includes topics such as supply chain structure, supply chain performance metrics, network design, facility location in a supply chain, aggregate planning, planning and managing inventory in a supply chain, transportation in a supply chain, pricing and revenue management. Prerequisite: ESM 532.

ESM 642 Business Process Management (3-0-3). Introduces the important issues in alignment of business internal activities and resources with external requirements through process improvements. Includes process types and hierarchies, workflow management systems, incremental process improvement, process re-engineering and benchmarking. Covers implementation and change management. Prerequisite: ESM 520.

ESM 644 Financial Management for Engineers (3-0-3). Provides engineers with financial management knowledge necessary for value-added decision making. Covers structure and analysis of financial statements, corporate valuation, working capital management, capital structure and budget, securities analysis and financial markets, and financial forecasting. Includes practical financial management case studies in technical organizations. Prerequisite: ESM 575.

ESM 650 Construction Management (3-0-3). Covers both the fundamental concepts and contemporary applications of construction management. Discusses elements of the construction project life cycle, project stakeholders, project administration and coordination, and construction delivery methods. Provides the student with the opportunity to simulate real-life construction management problems and apply acquired skills in their solution through case studies and team projects. Prerequisite: ESM 570.

ESM 652 Construction Planning and Scheduling (3-0-3). Covers the application of planning and scheduling techniques critical to the success of construction projects, critical path method, resource allocation and leveling, time-cost optimization, project monitoring, updating and control, linear scheduling, stochastic scheduling,
contractual implications of construction schedules, analysis of time-related change orders and delays, schedule diagnostics, and use of construction planning and scheduling software. Includes case studies from the construction industry. Prerequisite: ESM 570.

ESM 660 Construction Contracts Law (3-0-3). Introduces construction contracts and their administration with special emphasis for engineering. Covers construction claims, matters of time, delays and litigation. Includes the following professional topics: analysis of specific issues concerning contracts, subcontracting, tort claims, insurance and bonds. Covers strategies for avoiding or terminating litigation, methods of dispute resolution, key aspects of prosecuting and defending claims, the role of dispute review boards and their use, procedures of claims presentation, conducting cost evaluation of claims and methods of international construction contracts. Covers actual legal cases involving construction and law. Prerequisite: ESM 570.

ESM 668 Construction Safety Management (3-0-3). Covers safety and health concerns in the construction workplace. Concentrates on safety process development and management in construction. Provides the student with a comprehensive background in workplace hazard assessment, safety and health program development, and risk management in the construction industry. Prerequisite: ESM 570.

ESM 685 Capstone Course in Engineering Management (3-0-3). Presents students with an opportunity to showcase the theory and the practical knowledge accumulated throughout their studies. The general intent of the engineering capstone is to demonstrate students’ knowledge of the integrative aspects of ESM tools through rigorous written and oral communication of case analysis and a team project. Uses case studies to demonstrate the integrative aspects of ESM applications. Prerequisite: ESM 600.

ESM 686 Capstone Course in Construction Management (3-0-3). Presents students with an opportunity to showcase the theory and the practical knowledge accumulated throughout their studies. The general intent of the engineering capstone is to demonstrate students’ knowledge of the integrative aspects of ESM tools through rigorous written and oral communication of case analysis and a team project. Uses case studies to demonstrate the integrative aspects of ESM applications. Prerequisite: ESM 600.

ESM 687 Capstone Course in Information Technology Management (3-0-3). Presents students with an opportunity to showcase the theory and the practical knowledge accumulated throughout their studies. The general intent of the engineering capstone is to demonstrate students’ knowledge of the integrative aspects of ESM tools through rigorous written and oral communication of case analysis and a team project. Uses case studies to demonstrate the integrative aspects of ESM applications. Prerequisite: ESM 600.

ESM 698 Professional Project (6 credits). Requires completion of an approved professional project on a selected area of engineering management and systems engineering. Requires students to demonstrate the ability to integrate the information and the skills accumulated in their study plan through rigorous written and oral communication. A final report and presentation must be submitted to the examining committee. Graded as Pass/Fail.

ESM 699 Master’s Thesis (6 credits). Requires students to complete original research work in a multidisciplinary area in engineering systems management. Requires students to demonstrate the ability to integrate the information and the skills accumulated in their study plan through rigorous written and oral communication. The thesis is completed under the supervision of a faculty member serving as the thesis advisor, and a final defense to the examining committee is required. Graded as Pass/Fail.

MCE 550 Mechanical Systems Design (3-0-3). Introduces the design methodology applicable to mechanical systems. Includes the following topics: materials selection; specialized design methods such as design for manufacture, design for reliability and life cycle design; applications of optimization techniques; and finite element analysis to solve typical mechanical engineering problems. Prerequisite: admission to the MSME program.

MCE 551 Advanced Thermofluids (3-0-3). Covers energy and exergy analyses of systems, thermodynamic property relations, design of thermal systems, analysis and optimization of energy systems. Includes conservation laws for fluid flow, exact solutions for laminar flows, low Reynolds number flows, lubrication theory, fluid film bearings and applications of computational fluid dynamics. Prerequisite: admission to the MSME program.

MCE 552 Modeling and Simulation of Mechanical Systems (3-0-3). Addresses the importance of modeling and simulation and the interface between computer models and actual processes. Covers the formulation of systems of equations representing linear and non-linear mechanical systems behavior, and black box modeling of mechanical systems such as artificial intelligence schemes. Employs commercial software applied to the different fields of mechanical engineering. Prerequisite: admission to the MSME program.

MCE 650 Advanced Machine Dynamics (3-0-3). Covers the following topics: kinematics and kinetics of three-dimensional rigid bodies and multibody systems, momentum and energy methods, and holonomic and non-holonomic constraints. Introduces Hamilton’s principle for holonomic systems, Lagrange’s equations, relativistic dynamics, central force motion, Euler equations of motion, Hamilton’s equations and phase space, and the Hamilton-Jacobi equation. Prerequisite: MCE 550.

MCE 651 Advanced Engineering Materials (3-0-3). Explores advanced materials used in engineering applications. Covers the following topics: fatigue, fracture, experimental techniques, nondestructive evaluation, inelastic behavior, and the effect of processing and environmental conditions on mechanical properties. Prerequisite: admission to the MSME program.

MCE 652 Advanced Topics in Manufacturing (3-0-3). Provides an in-depth study of manufacturing processes. Covers a quantitative analysis of metal cutting and analyzes the relationship between production performance and crucial process parameters. Introduces contemporary manufacturing technologies. Prerequisite: admission to the MSME program.

MCE 653 HVAC Systems Design (3-0-3). Aims at developing a solid background in the practical design and analysis of HVAC systems. Covers building load using transfer functions and energy estimation methods, renewable energy technologies (solar, wind, geothermal, photovoltaics) and their applications on HVAC systems, solar thermal energy and wind energy conversion systems, passive design strategies, HVAC system controls, thermal energy storage, absorption chillers, energy efficiency for buildings,
and design of large commercial and industrial HVAC systems w/without renewable energy. Prerequisite: MCE 551.

MCE 654 Advanced Fluid Dynamics (3-0-3). Examines the conservation equations for viscous fluids and Navier-Stokes equations. Covers advanced topics such as Stokesian flow, boundary layer concept, laminar boundary layer equations and methods of solutions, theory of stability of laminar flows and introduction to turbulent flow. Prerequisite: MCE 551.

MCE 655 Advanced Measurements and Design of Experiments (3-0-3). Explores advanced experimental methods used in mechanical engineering systems. Covers the following topics: advanced measurement techniques in fluids, solids and motion variables; instrumentation; data acquisition; error and noise reduction; experimental data processing; error analysis; and design of experiments. Prerequisite: MCE 552.

MCE 695 Seminar (1-0-0). Introduces research methodologies. Explores the planning and realization of research projects. Examines current research issues in engineering using case studies that emphasize the utilization of applied research in designing engineering systems. Graded as Pass/Fail. Prerequisite: admission to the MSME program.

MCE 698 Professional Project (3 credits). Requires an approved professional project on selected area of mechanical engineering for completion of the MS degree. Includes development of the project concept, investigation of needs, initial data collection and assembly of written and field materials necessary to conduct a professional project, as well as exploration of alternative means to conduct the project. Requires a report and final presentation to the examining committee. Graded as Pass/Fail. Prerequisite: approval of department head; prerequisite/concurrent: MCE 695.

MCE 699 Master's Thesis (9 credits). Requires students to complete original research work in the field of study. Requires the thesis to be completed under the supervision of a faculty member serving as thesis advisor, and a final defense to the examining committee. Graded as Pass/Fail. Prerequisite: approval of department head; prerequisite/concurrent: MCE 695.

MTR MTR 501 Introduction to Mechatronics (2-3-3). Covers applied mechanical and electrical engineering principles used in mechatronics products. Introduces the modeling and analysis of electromechanical systems, hydraulic systems, signal processing and conditioning, power amplifiers and switches, data communication systems. Develops design skills in system integration using mechanisms, electronics, software, and information technology in order to create, test and verify mechatronics systems. Includes laboratory projects. Graded as Pass/Fail. Prerequisite: admission to the MSMTR program.

MTR 520 Embedded Systems for Mechatronics (2-3-3). Explores microprocessor hardware and software modules. Covers microcontroller hardware and software architectures, microcontrollers programming and interface with real-time mechatronics systems, data acquisition unit and designing stand-alone embedded systems for mechatronics products. Includes case studies and course projects. Prerequisite/concurrent: MTR 501.


MTR 540 Advanced Control Systems (3-0-3). Covers state variable models, design of control systems in state space, full state observers, reduced order observers, digital compensator design LQ regulator and LQG theory, servomechanism design, and design of continuous and digital control systems using modern analytic and computer design tools. Prerequisite: MTR 530.

MTR 605 Digital Signal Processing (3-0-3). Covers signal representation and system response, signal sampling and reconstruction, convolution, transfer function and system characteristics, digital filter design and realization, adaptive filters, spectral analysis, multirate signal processing, and time-frequency analysis and wavelets. Prerequisites: MTR 501 and NGN 500.

MTR 610 Automated Manufacturing Systems (3-0-3). Describes and demonstrates automated machine tools and machining cells. Covers machining center configuration and operation, machine tool controller, machining code generation, in-process sensing and control, cell controllers and system simulation. Prerequisite: NGN 500.

MTR 615 Artificial Intelligent Systems for Mechatronics (3-0-3). Covers artificial intelligent systems for mechatronics engineering concepts of expert and fuzzy logic decision-making systems, fuzzy logic modeling and control, artificial neural networks, genetic algorithms, decision trees and applications. Prerequisites: NGN 500.

MTR 630 Real-Time Robotics Systems (2-3-3). Covers components of robot systems, analysis and design of modern robotic and industrial control systems, hardware and software, control strategies and techniques used in vision-based robotics, real-time embedded control, optimization techniques, matrix analysis and analytic 2D/3D geometry. Prerequisites: MTR 520 and NGN 500.

MTR 640 Nonlinear and Intelligent Control Systems (3-0-3). Introduces nonlinear systems, Lyapunov stability theory, linearization by high gain and sliding modes, nonlinear observers, Lyapunov design methods, feedback linearization, and intelligent control strategies, such as neural networks and fuzzy logic. Prerequisite: MTR 540.

MTR 644 Electric Drives for Mechatronics Systems (3-0-3). Provides an overview of modern electrical machines in terms of their dynamic and steady-state performance. Covers power electronic conversion and control techniques. Prerequisite: MTR 540.


MTR 650 Applied Linear Estimation (3-0-3). Introduces estimation and stochastic processes. Introduces deterministic and stochastic least squares estimators. Defines the innovation process and its properties. Introduces state space models, Weiner-Kalman filters for scalar and vector processes as well as smoothed estimators, and non-linear parameter estimation. Introduces fast array algorithms. Includes a project that applies the estimation algorithms on
mechatronics application case studies. Prerequisite: NGN 500.

**MTR 690 Mechatronics Design (2-3-3).** (Formerly MTR 590). Requires individual and team projects involving the development and integration of hardware and software into a smart system, which includes sensing, processing and controlling functions. Prerequisites: MTR 520 and MTR 530; prerequisite/concurrent: MTR 695.

**MTR 695 Mechatronics Seminar (1-0-0).** Explores project planning development and realization, case studies of engineering systems design and realization, and current research topics in mechatronics engineering, including areas such as signal processing, image processing, control, robotics, intelligent systems, computer vision, and MEMS. Prerequisite: approval of program director.

**MTR 699 Master’s Thesis (9 credits).** Requires students to complete extended and original research work on a topic related to elements of computing, mechanics, electronics and intelligence. Graded as Pass/Fail. Prerequisite: approval of program director; prerequisite/concurrent: MTR 695.

**NGN Engineering**

**NGN 500 Advanced Engineering Mathematics (3-0-3).** Covers analysis of linear and nonlinear physical systems, equations of motion (ODEs and PDEs), tensors, partial differential equations of mathematical physics (wave, diffusion, Laplace, Poisson Equations), transform and integral methods for solving boundary and initial value problems, and numerical methods for ordinary and partial differential equations. Prerequisite: admission to the MSChE or MSCoE or MSCE or MSEE or MSME or MSMT program.

**NGN 505 Random Variables and Stochastic Processes (3-0-3).** Covers the following topics: random variables, transformation of functions of random variables, vectors of random variables, random processes: correlation and power spectral density, LTI systems with stochastic signals, Markov chains and queuing theory. Prerequisite: admission to the MSChE or MSCoE or MSCE or MSEE or MSME program.

**NGN 509 Advanced Computational Methods (3-0-3).** Covers topics such as numerical analysis methods (error analysis, roots of equation, linear algebraic equations, interpolation, approximation, finite difference and quadrature); numerical linear algebra; numerical solutions of ordinary differential equations; numerical solutions of partial differential equations; control volume technique; and numerical modeling, simulation and visualization of engineering problems using MATLAB. Prerequisite: admission to the MSChE or MSCoE or MSCE or MSEE or MSME program.

**Independent Study**

Independent study is the umbrella term used to label two types of independent work: independent course and directed study.

For conditions governing registration in an independent study, please refer to the Registration in Independent Study Courses section under Academic Policies and Regulations.

**Independent Course (1 to 4 credits).** A course listed in the catalog but offered in an independent study format. The course is coded using the course number in the catalog. Students are not allowed to repeat courses in an independent course format.

**Directed Study (1 to 4 credits).** An investigation under faculty supervision beyond what is offered in existing courses. Directed study courses are numbered as 596 or 696 courses. The three-letter course prefix reflects the field of study beyond what is offered in existing courses.

**Special Topic Courses**

**Special Topic (1 to 4 credits).** Presents a theoretical or practical topic proposed by the faculty beyond what is offered in existing courses. Can be repeated for credit. Prerequisites: topic specific. Lab/tech fee may apply.

Special topic courses are numbered as 594 or 694 courses. The three-letter course prefix reflects the field of study of the course.

Descriptions of particular special topic courses are made available in the college/school offering the course during registration.
School of Business and Management

ACC 610 Topics in Financial Accounting (3-0-3). Focuses on contemporary financial reporting issues, including development of the conceptual framework as presented by the Financial Accounting Standards Board (FASB), contemporary accounting research and recent financial accounting pronouncements. Examines theories relevant for financial accounting and reporting. Prerequisite: ACC 302.

ACC 611 Auditing and Attestation (3-0-3). Focuses on current developments in auditing and attestation standards as promulgated by the American Institute of Certified Public Accountants (AICPA). Covers international auditing standards promulgated by the International Federation of Accountants (IFAC) as well. Prepares students for the CPA exam section on Auditing and Attestation. Prerequisite: ACC 410.

ACC 612 Advanced Topics in Managerial and Cost Accounting (3-0-3). Addresses advanced issues in cost allocation and transfer pricing. Considers also the use of modeling such as linear programming, probability theory and other quantitative techniques to solve business problems. Prerequisite: ACC 303.

ACC 613 Topics in International Financial Reporting Standards (3-0-3). Addresses current topics and rules promulgated by the International Accounting Standards Board (IASB) and commonly referred to as International Financial Reporting Standards (IFRS). Covers standards issued or proposed by IASB with a special emphasis on the complex standards that may have not been covered in depth at the undergraduate level. Considers the worldwide convergence of national standards toward IFRS. Helps students prepare for the Financial Accounting and Reporting (FAR) Section of the CPA exam. Prerequisite: ACC 302.

ACC 614 Regulatory Environment in Accounting (3-0-3). Examines the sources, rules, regulations and laws covering business transactions including leases, contracts, loans, contingencies, commitments and purchases. Evaluates authoritative regulations and standards issued by the Securities and Exchange Commission (SEC) and AICPA. Emphasizes development of procedures for identifying applicable accounting issues and locating appropriate laws/standards. Prerequisite: ACC 302.

ACC 615 Enterprise Database Systems (3-0-3). Focuses on building information systems that meet multiple needs for transaction-level processing, control specification and financial statement preparation, while simultaneously supporting the needs of a variety of other decision-makers in finance, management, marketing and supply chain logistics. Emphasizes the design and use of conceptually modeled databases. Devotes significant attention to Extensible Business Reporting Language (XBRL). Prerequisite: ACC 360.

ACC 620 Forensic Accounting and Fraud Examination (3-0-3). Considers fraud as a cost for businesses and society as a whole. Focuses on examining fraud committed by white-collar criminals. Addresses questions of why and how fraud is committed and identifies red flags that may indicate the presence of fraud. Examines methods for detecting, investigating and uncovering fraud schemes. Discusses empirical surveys on the extent and nature of occupational fraud worldwide, considering real-life cases in which managers are caught manipulating company records and committing widespread fraud. Prerequisite: ACC 410.

ACC 621 Ethical Environmental and Corporate Governance (3-0-3). Discusses the fundamentals of corporate governance from many different angles that include the board of directors, senior management, investors, the media, proxy advisors, regulators and other stakeholders. Focuses on assessing the effectiveness and execution of governance roles and responsibilities. Considers ethical issues and corporate governance in accounting and auditing, including ethical reasoning, integrity, objectivity, ethical failure, independence, core values and professional issues. Prerequisite: ACC 301.

ACC 622 Internal Auditing (3-0-3). Focuses on the theory and practice of internal auditing. Addresses the role of internal auditing in strengthening the corporate governance system in business and nonbusiness organizations. Provides a foundation for accounting and auditing students to be objective professionals in order to provide assurance and consulting services to top- and lower-level management. Emphasizes achieving the organization's objectives efficiently and effectively. Helps students as aspiring professionals to prepare for the Certified Internal Auditor (CIA) exam. Prerequisite: ACC 410.

ACC 623 Financial Statement Reporting and Analysis (3-0-3). Emphasizes the analysis of financial statements and related footnotes from the standpoint of the different users of financial reporting. Provides an opportunity for students to conduct a review of financial statements for fairness and completeness in reporting. Applies tools and skills utilized to analyze and interpret financial reports to assess the financial performance of firms and facilitate investment, lending and other financial transactions. Prepares students for a career in the tax planning and research. Prerequisite: ACC 302.

ACC 625 Tax Research (3-0-3). Provides a basic understanding and knowledge of sources available in conducting tax research. Develops tax research skills. Teaches students to read and interpret federal tax laws and regulations. Applies research skills and uses tax sources authority in preparing written materials. Prepares students for a career in the tax planning and research. Prerequisite: ACC 305.

ACC 626 Information Technology Auditing and Assurance (3-0-3). Focuses on the process of collecting and evaluating evidence of IT system practices and operations. Develops understanding of procedures to test whether the systems are able to safeguard assets, maintain data security, and operate effectively and efficiently. Covers theories and practices of information systems auditing and the role of the information systems auditor in systems development and creation of computer-based system controls. Prerequisite: ACC 410.

ACC 627 Advanced International Taxation (3-0-3). Focuses on taxation of multinational enterprises. Covers topics such as international tax treaties, tax haven territories, and tax systems utilized by different nations and cross-border taxation of transfer pricing. Prerequisite: ACC 306.

ACC 628 Fraudulent Financial Reporting (3-0-3). Covers different
financial reporting schemes that are utilized by firms to mislead investors and influence their investment actions. Covers different accounting methods and schemes that are used to provide misleading information. Examines landmark fraudulent cases and their impact on society. Prerequisite: ACC 410.

EMB Executive Business Administration

EMB 701 Leadership and the Executive (6-0-6). Focuses on building the leadership skills required to prepare an organization for changes that will lead to higher levels of performance. Considers the behavior of people, organizations, principles and attributes of leadership, motivation theory, business ethics and effective management communication in the context of the Gulf Region. Explores approaches to organizational learning, strategic management of human capital, organizational development, and team building as the business enterprise positions itself to compete in a globalizing economy. Graded as Pass/Fail. Prerequisite: admission to the EMBA program.

EMB 702 Analytical Foundations (6-0-6). Introduces principles and techniques of analysis used to support decision making in business organizations, drawing primarily on economics, statistics and management science. Reviews essential elements of micro- and macroeconomic theory as they apply to competition, market behavior, interest rates and other phenomena impacting Gulf enterprises. Examines the use and analysis of data in decision making, including probability distributions, regression, modeling and other quantitative methods. Graded as Pass/Fail. Prerequisite: admission to the EMBA program.

EMB 703 Financial Management (9-0-9). Focuses on executive decisions in the framework of international financial markets. Explores fundamentals of financial record keeping and decision making, including cash flow, cost accounting and financial ratio analysis. Reviews management of assets and liabilities, followed by consideration of managerial and capital budgeting processes. Investigates the use of corporate leverage and introduces methods of appraising corporate debt and equity securities. Examines portfolio optimization and risk management techniques, including the use of financial derivatives. Graded as Pass/Fail. Prerequisite: admission to the EMBA program.

EMB 704 Process and Innovation (6-0-6). Focuses on manufacturing and service management decisions, as well as sourcing and distribution functions of an organization. Considers principles of operations strategy, productivity, capacity planning, facility location quality, supply chain management, and the design and control of projects, products and processes. Explores a wide variety of analytical techniques for critically evaluating and continuously improving business processes. Graded as Pass/Fail. Prerequisite: admission to the EMBA program.

EMB 705 Markets and Innovation (3-0-3). Introduces segmentation and market positioning using the four strategic dimensions of marketing, together with the basic principles of consumer behavior and market research. Explores the balance between standardization and adaptation of marketing programs in an era of globalization. Examines techniques to stimulate innovation in the development of new marketing strategies, product and service offerings, and e-business applications. Graded as Pass/Fail. Prerequisite: admission to the EMBA program.

EMB 706 Society and Governance (3-0-3). Focuses on the position of business in society and examines its relations with other stakeholders. Considers societal expectations, corporate accountability and strategic approaches to social responsibility. Discusses concepts of management accountability and fiduciary responsibility based on agent and stewardship models, particularly as they apply to corporate governance and the challenges faced by boards of directors. Explores the evolving legal structure of the UAE and examines such issues as contracts, dispute resolution, employment law and government regulation. Graded as Pass/Fail. Prerequisite: admission to the EMBA program.

EMB 711 Gulf to Global Strategy (6-0-6). Provides opportunities for students to integrate theories and principles in the development of corporate strategies for businesses in the Gulf Region. Employs case studies and experiential learning activities to create situations in which participants can synthesize concepts and apply analytical skills or leadership techniques to the creation of comprehensive strategies capable of supporting expansion into world markets. Considers the appropriate combination of marketing, financial, operations, technology and human resources. Graded as Pass/Fail. Prerequisite: admission to the EMBA program.

EMB 712 Executive Toolkit (6-0-6). Focuses on experiential development of specific leadership skills that help executives tie strategy to implementation. Introduces team building, negotiation, financial control, process mapping, project management and other useful techniques. Employs case studies, simulations, group exercises, role plays and a variety of analytical techniques to put management theory into effective practice. Graded as Pass/Fail. Prerequisite: admission to the EMBA program.

EMB 793 Matriculation Continuation (0-0-1). Maintains current matriculation for EMBA students whose coursework does not correspond to traditional academic semesters. This course does not generate credits for graduation. Tuition charged corresponds to one fourth of the program fee. Prerequisite: admission to the EMBA program.

MBA Business Administration

MBA 501 Foundations of Economics (3-0-3). Provides an introductory survey of microeconomics and macroeconomics, designed primarily for MBA students unfamiliar with economics principles. The microeconomics side of the course includes elements of demand and supply, consumer behavior, costs, market structures and income distribution. The macroeconomics side of the course analyzes movements in prices and national output, inflation, unemployment, and monetary and fiscal policy.

MBA 503 Financial Accounting for Managers (3-0-3). Addresses reading, analyzing and interpreting financial statements for the purpose of making managerial as well as investing and financing decisions. Explores management motivation in choosing accounting policies and how these policies have social, ethical and legal implications. Considers the basic financial statements, basis of valuations and the extent of financial disclosure.

MBA 504 Managerial Statistics (3-0-3). Examines the decision-aiding tools that can be applied by managers to gain insight into decision problems, ranging from simple graphic displays of data to sophisticated statistical tests. Students use real-world data sets and PC-based software to describe sets of measurements, construct probability distributions, estimate numerical descriptive measures and build multiple regression models. Prerequisite: a
MBA 505 Financial Management (3-0-3). Covers financial theory and techniques of analysis, including valuation theory, theories of risk, measurement, managing a firm’s investment decisions and capital structure, sources of financing for a firm, and financial planning and analysis. Prerequisite/concurrent: MBA 503.

MBA 508 Analytical Methods and Modeling (1.5-0-1.5). Examines analytical tools and methods used to make effective management decisions. Introduces decision analysis, process analysis and design, capacity management and queuing with an emphasis on the use of analytical models to solve complex business problems. Includes such techniques as decision trees, value stream mapping, process modeling, spreadsheet simulation, and dynamic modeling. Prerequisites: computer proficiency.

MBA 509 Marketing Concepts (1.5-0-1.5). Covers the fundamental aspects of marketing including the marketing mix (product, pricing, advertising and promotion, and distribution), by focusing on problem-solving and decision-making abilities. Includes lectures, case studies and experiential learning activities in which students learn to research customer needs, segment markets and perform other basic marketing functions.

MBA 512 Organizational Behavior (1.5-0-1.5). Applies management theory to factors that influence individual and group performance while incorporating current management theory and research. Topics discussed range from motivation to the use of power and influence, organizational design and culture, and the role of leadership.

MBA 601 Managerial Economics (3-0-3). Covers the application of economic theory to management problems using basic economic tools and techniques of economic analysis to analyze decision-making problems faced in private businesses, government agencies and non-profit organizations. Prerequisite: MBA 501.

MBA 606 Management Information Systems (3-0-3). Provides the theoretical, technological, practical and managerial foundations of management information systems. Covers information technologies, systems development, the impact of information systems on business organizations, information technology as a competitive tool and the management of information systems within domestic and multinational corporations. Introduces students to current systems and software. Prerequisite: MBA 508.

MBA 607 Business Communication (3-0-3). Focuses on the written and oral communication skills of the participants. Emphasizes the use of technology in business communication. Covers effective business writing and presentation, listening and negotiation skills. Stresses the study and practice of advanced techniques of argumentative writing.

MBA 609 Operations Management (3-0-3). Takes an analytical approach to solving problems in production and operations management. Explores basic principles, functions and concepts involved in the design, operation and control of operations in contemporary organizations as well as key elements of supply chain management. Covers development of operations strategy, the application of linear programming, quality management, supply chain design and procurement, inventory management, and lean production. Prerequisites: MBA 504 and MBA 508.

MBA 610 Business Research Applications (3-0-3). Introduces students to the basic tools of business research by explaining various research methodologies and techniques. Includes numerous illustrations, portraying actual research in management, marketing, finance, accounting and other areas of business, that show how to perform the research function. Prerequisite: MBA 504.

MBA 611 Advanced Financial Management (3-0-3). Examines, at an intermediate level, the problems of managing short-term assets including cash, marketable securities, accounts receivable and inventory, managing the acquisition and disposal of long-term assets and financing decisions including leverage, leasing, mergers and international issues. Familiarizes students with both the basic theories in each of these areas and various strategies for integrating the theory with practice. Prerequisite: MBA 505.

MBA 612 Leadership and Change Management (3-0-3). Investigates the role of leadership in the context of global change. Gives particular attention to leadership issues as they pertain to organizational development, culture and the dynamics of change. Prerequisite: MBA 512.

MBA 613 Accounting Analysis for Managers (3-0-3). Explains the role of accounting information in facilitating the functions of management. Covers decision making, planning, performance evaluation, budgeting, cost control and international transfer prices. Prerequisite: MBA 503.

MBA 614 Marketing Management (3-0-3). Introduces current marketing management techniques and the tools necessary for effective marketing decision making. Provides global perspectives on marketing management and international marketing issues. Interactive learning techniques include the case method and active class participation. Incorporates issues such as ethics, minorities and the ecological environment. Requires familiarity with microeconomic theory, basic concepts of accounting and relevant support software. Prerequisite: MBA 509.

MBA 615 Innovation and Entrepreneurship (3-0-3). Introduces business innovation and explores the entrepreneurial process through which new ideas become the basis for viable enterprises. Considers the development of a product or concept, assessment of technical and commercial feasibility, preparation of a business plan, and the need for funding. Requires students to take part in an interdisciplinary, team-based project developing a proposal for the prospective commercialization of a product, process or business concept. Exposes the constant interplay between innovation and risk, feasibility and function, ownership and financing, marketing and delivery. Prerequisite: completion of all foundation courses or approval of the director of graduate programs.

MBA 616 e-Commerce Business Models and Technology (3-0-3). Presents a survey of consumer and business-to-business electronic commerce models, systems and technical solutions. Includes hands-on projects and assignments. Prerequisite: MBA 606.

MBA 617 Ethics and Legal Issues (3-0-3). Intensively introduces the legal and ethical issues confronting the global business manager. Addresses the legal system, legal processes and several areas of substantive commercial law relevant to the business manager. Discusses the developing recognition of legal and ethical issues and their managerial implications. Examines product liability, the administrative legal process of regulation, antitrust and the contract as the fundamental legal instrument of global commercial relations.

MBA 618 Strategic Management in a Global Environment (3-0-3). Focuses on developing and applying strategic management to successfully position organizations in a competitive global environment. Integrates previous course experiences to hone decision-making skills.
making, analysis, and oral and written communication skills. Requires students to work in small teams to analyze a real company’s external environment, perform an internal corporate audit and build detailed action plans including implementation issues and financial forecasting. Normally taken during the last semester in the MBA program. Prerequisites: completion of all MBA foundation courses and completion of at least five MBA core courses. Prerequisites/concurrent: MBA 609 and MBA 611.

MBA 620 Public Administration and the Policy Process (3-0-3). Introduces the public policy process and considers concepts such as competing values, externalities, market failure, risk and uncertainty. Presents alternate models of policy decision making and explores the approaches used by public service managers to build support for specific programs. Examines the roles of agency culture, administrative reform, public trust, judgment and ethical norms. Prerequisite: MBA 501.

MBA 621 Management of Nonprofit Organizations (3-0-3). Focuses on the application of management theory and practice in nonprofit organizations. Examines the establishment of nonprofits, strategic planning, governance, accountability, communication, budgeting and fundraising, human resource management, design of volunteer programs, ethics and responsiveness to stakeholders. Prerequisite: MBA 512.

MBA 622 The Public-Private Partnership (3-0-3). Explores key tenets of the New Public Management and their implications for the delivery of public services. Examines the political, managerial, legal and ethical issues associated with use of non-governmental organizations. Considers types of services amenable to new approaches and introduces elements of performance monitoring in acquisition, contracting and program delivery. Prerequisite: MBA 620.

MBA 623 e-Government (3-0-3). Introduces the concept of e-government and explores the role of IT and the Internet in the delivery of public services and reengineering of administrative processes. Explores dramatic changes in public administration and methods of transformation. Examines issues of technology, public interfaces, transparency and accountability, access and security, equity, privacy and their impact on the deployment of government electronic services. Considers the influence of government information delivery in the development of an informed citizenry and expanded citizen participation in public decision making. Prerequisite: MBA 606.

MBA 624 Ethics, Law, Democracy and Society (3-0-3). Considers ethical issues and moral reasoning in the context of public policy formulation and implementation. Examines ethical standards and legal requirements that apply to managers in the public sector. Explores concepts such as the rule of law, constitutional constraints, administrative legitimacy, due process, rulemaking, administrative appeal and managerial liability. Reviews the impact of interests, privilege, political power and conflict of interest on public trust. Addresses differences in values, norms and social objectives based on culture and tradition. Prerequisite: MBA 620.

MBA 625 Public Financial Management (3-0-3). Introduces fundamental concepts and practice in budgeting, financial administration and revenue generation. Considers the budget process, budget preparation, resource allocation, cost analysis and audit. Presents basic management functions including cash management, debt administration and communication of financial performance. Surveys various public funding sources in the context of the Gulf Region. Prerequisite: MBA 503.

MBA 632 Investment Analysis (3-0-3). Covers the purpose and operations of security markets; investment instruments and their characteristics; introduction to portfolio and capital market theory; theory of valuation, bonds and the term structure of interest rates; options, commodity and financial futures investment companies; and international investments. Prerequisite: MBA 611.


MBA 634 Commercial Banking (3-0-3). Focuses on decision making based on an integrated approach that exposes students to the understanding of bank management. Discusses factors that influence credit, investment, funding and pricing decisions. Introduces students to how banks help develop an appreciation of the trade-offs between risk and return. Discusses a wide range of cases related to bank performance evaluation, making new loans, managing the investment portfolio, asset and liquidity management as well as the macro and international environment in which commercial banks operate. Prerequisite: MBA 505.

MBA 635 Islamic Economics (3-0-3). Provides the theoretical foundation for advanced studies in Islamic economics. Addresses questions concerning the need for an Islamic economic system, the viability of an economic system that is built on a religious paradigm, how that system should be and how it relates to contemporary economic systems. Investigates the socioeconomic dynamics of classical Islamic economics and its views on wealth creation and distribution, optimum growth and employment, economic stability, public finance and the role of the state in economic activity. Prerequisite: MBA 501.

MBA 636 Islamic Banking and Finance (3-0-3). Provides students with a formal and intuitive understanding of the fundamentals of Islamic finance, including the foundation of traditional Islamic financial tools and practices and the development of modern Islamic banking and financial instruments and institutions. Relates the theory of Islamic finance to current development in Islamic banking and the finance industry. Prerequisite: MBA 505.

MBA 637 Investing in Real Estate (3-0-3). Introduces the importance of real estate to consumers and investors as well as its role in economic development and growth. Considers real estate from a variety of perspectives. Explores topics such as loan underwriting, property development, financial performance and market analysis. Discusses new property and lending trends around the world and particularly within the Middle East. Prerequisite: MBA 505.

MBA 651 Supply Chain Management and Strategy (3-0-3). Introduces basic concepts of logistics and supply chain management. Examines supply chain management topics, tools and issues from a general management point of view. Covers supplier selection and collaboration, performance measurement along the supply chain, strategic outsourcing, just-in-time partnership and distribution, customer relationship management, logistics, procurement, inventory and warehousing strategies, and service supply chains. Includes case assignments, discussions and mini-projects. Prerequisite: MBA 508.

MBA 655 Information Systems Design (3-0-3). Introduces students to basic elements of IS infrastructures, such as networks, intranets and XML, databases, and data warehouses and
MBA 661 Strategic Human Resource Management (3-0-3). Focuses on the strategic role of HRM. Examines the role of HRM in strategy formulation and implementation and measuring and improving HRM effectiveness. Discusses how to align HRM practices with organizational business goals. Focuses on strategic recruitment and retention practices, high-performance management practices, strategies for developing employees, and the role of HR in supporting change and in managing mergers and alliances. Prerequisite: MBA 512.

MBA 662 International Human Resource Management (3-0-3). Explores the roles of HR managers in multinational corporations and identifies and analyzes efficient management strategies and practices in the field of international HR and effective HRM policies and practices in international contexts. Focuses on the internationalization of the organizations and the cultural dimensions that have an impact on HRM activities. Studies recruitment and selection, training, development, and evaluation and compensation practices in an international context. Covers ethics and social responsibility issues in the MNE, as well as the challenges of designing and implementing an iHRM policy. Prerequisite: MBA 512.

MBA 663 Staffing (3-0-3). Allows students to develop critical, analytical and integrative thinking about the staffing process in today’s organizations. Examines in detail the six steps in the staffing process: job design and analysis, HR planning, recruitment, selection, orientation and retention. Explores selection interviews, interviewing skills and selection tests. Covers how to manage diversity in the staffing context as well as evaluation and improvement of the important steps in the staffing process. Includes concrete exercises and case studies. Prerequisite: MBA 512.

MBA 664 Training and Development (3-0-3). Adopts a systematic approach to training and development systems, focusing on the blend between theory and practice. Covers training in organizations, the training process, identifying learning needs and appropriate learning opportunities, designing and delivering training, the transfer of learning, reviewing and evaluating training activities, the management of transfers and promotions, the strategic development of leaders and managers, numerous developmental techniques, the learning organization and knowledge management. Studies the strategic management of training and development activities. Prerequisite: MBA 512.

MBA 670 Management Consulting (3-0-3). Explores the theoretical and analytical foundations of management consulting practice. Helps students to develop skills necessary for successful consulting engagements. Includes the following topics: marketing professional services, needs assessment, selection of key performance indicators, proposal preparation, liaising with senior management, change leadership, training, managing deliverables, project documentation and presentation styles. Explores students to common consulting tools, technologies and techniques used for problem identification, data collection, process analysis, quality management, team building, etc. Students who have not completed all foundation courses will require approval of director of graduate programs. Prerequisite: MBA 512.

MBA 680 Project Management (3-0-3). Examines the concepts and techniques associated with managing projects in business organizations. Considers project design, planning, scheduling, systems engineering, cost estimation and control. Explores the relationship between innovation and risk. Prerequisite: MBA 508.

MBA 690 Global Consulting Practicum (0-9-3). Provides student teams with an opportunity to participate in a consulting engagement under the direction of SBM faculty. Requires students to carry out a complete project with a team from a US partner institution. Develops skills in problem definition, needs analysis, strategic planning, market research and other techniques appropriate to the needs of the client. Travel is required. Prerequisite: permission the director of graduate programs.

Independent Study

Independent study is the umbrella term used to label two types of independent work: independent course and directed study.
Full-Time Faculty

A
Abdalla, Jamaleldin, PhD, University of California at Berkeley, 1989; Professor in Civil Engineering
Abdallah, Abed Al-Nasser, PhD, University of Lancaster, 2004; Associate Professor in Accounting
Abdelfatah, Akmal, PhD, University of Texas at Austin, 1999; Associate Professor in Civil Engineering
Abdel-Hafez, Mamoun, PhD, University of California at Los Angeles, 2003; Associate Professor in Mechanical Engineering
Abdel-Jabar, Nabil, PhD, University of Michigan, 1996; Professor in Chemical Engineering
AbdullHadi, Zayid, PhD, Université Laval, 1987; Professor in Mathematics and Statistics, (on sabbatical Fall 2013)
Abdel-Jabbar, Nabil, PhD, University of Tennessee at Memphis, 1997; Professor in Chemical Engineering
Abdel-Jabbar, Nabil, PhD, University of Tennessee at Memphis, 1997; Professor in Chemical Engineering
Abdel-Magid, Ahmed, PhD, University of Illinois at Urbana-Champaign, 1999; Associate Professor in Civil Engineering
Abdel-Latif, Zayid, PhD, Université de Technologie de Compiègne, 1994; Visiting Professor in Mechanical Engineering
Abdenour, Soufiane, PhD, University of Pennsylvania, 1993; Associate Professor in Chemical Engineering
Abed, Farid, PhD, Louisiana State University, 2005; Associate Professor in Civil Engineering
Aboueleish, Mohamed Yehia, PhD, Tennessee Technological University, 2003; Assistant Professor in Biology, Chemistry and Environmental Sciences
Abu Al-Foul, Bassam, PhD, University of Utah, 1994; Associate Professor in Economics
Abuarub, Taher, PhD, University of Iowa, 1998; Professor in Mathematics and Statistics
Abukhaled, Marwan, PhD, Texas Tech University, 1995; Professor in Mathematics and Statistics
Abu-Lebedeh, Ghassan, PhD, University of Illinois at Urbana-Champaign, 1999; Associate Professor in Civil Engineering
Abu-Muhanna, Yousif, PhD, State University of New York at Albany, 1979; Professor in Mathematics and Statistics
Abu-Nabah, Bassam, PhD, University of Cincinnati, 2007; Assistant Professor in Mechanical Engineering
Abu-Yousef, Imad, PhD, McGill University, 1996; Professor in Biology, Chemistry and Environmental Sciences
Ahmad, Norita, PhD, Rensselaer, 2001; Assistant Professor in Management Information Systems
Ahmad, Shoab Nabi, MD, Rhode Island School of Design, 1991; Associate Professor in Art and Design
Ahmed, Khawlah, PhD, State University of New York at Buffalo, 1998; Associate Professor in English
Ahmed, Rana, PhD, Duke University, 1991; Associate Professor in Computer Science and Engineering (on leave Academic Year 2013–2014)
Ahmed, Saad, PhD, Georgia Institute of Technology, 1981; Professor in Mechanical Engineering
Akan, Ali Osman, PhD, University of Illinois, 1976; Professor in Civil Engineering, and Head, Department of Civil Engineering
Al-Ali, Abdal-Rahman, PhD, Vanderbilt University, 1990; Professor in Computer Science and Engineering
Al-Ali, Ahmed, PhD, University of Durham, 1999; Assistant Professor in Arabic and Translation Studies
Al-Ali, Tarig, PhD, Ohio State University, 2003; Associate Professor in Civil Engineering
Albarch, Lutfi, PhD, University of Leeds, 1995; Associate Professor in Electrical Engineering (on sabbatical Spring 2014)
Al-Ghoussein, Tarek, MA, University of New Mexico, 1989; Professor in Art and Design (on leave Fall 2013)
AlHamaydeh, Mohamed, PhD, University of Southern California, 2005; Associate Professor in Civil Engineering
Ali, Almna, PhD, University of TVTS, 2004; Assistant Professor in English
Ali, Tarig, PhD, Ohio State University, 2003; Associate Professor in Civil Engineering
Alibrandi, Thomas, EdD, University of San Francisco, 1999; Assistant Professor in Writing Studies and Director, Achievement Academy
Al-Isaa, Ahmad, PhD, Indiana University of Pennsylvania, 1998; Professor in English (on leave Academic Year 2013–2014)
Al-Jabouri, Firas, PhD, Newcastle University, 2011; Assistant Professor in English
Alkafaji, Yass, DBA, Mississippi State University, 1983; Associate Professor in Accounting
Al-Kaisi, Meis, PhD, University of London, 2006; Assistant Professor in Arabic and Translation Studies
Al-Kattan, Ibrahim, PhD, Tennessee Technical University, 1994; Professor in Engineering Systems Management
Al-Khazali, Osamah, PhD, University of Memphis, 1997; Professor in Finance
Allagui, İhem, PhD, University of Montreal, 2001; Associate Professor in Mass Communication (on sabbatical Fall 2013)
Allee, John, MA, University of Minnesota, 1969; Senior Lecturer in Marketing
Alnaizy, Raafat, PhD, Texas A&M University, 1999; Associate Professor in Chemical Engineering
Al-Najjar, Abeer, PhD, University of Edinburgh, 2003; Assistant Professor in Mass Communication
Alnaser, Ali Sami, PhD, Western Michigan University, 2002; Associate Professor in Physics
Al-Nashash, Hasan, PhD, Kent University, 1988; Professor in Electrical Engineering (on sabbatical Fall 2013)
Al-Natour, Sameh, PhD, University of British Columbia, 2012; Assistant Professor in Management Information Systems
Aloubeleish, Mohamed, PhD, University of Alberta, 2002; Associate Professor in Biology, Chemistry and Environmental Sciences
Al Shaar, Nuha, PhD, University of Cambridge, 2010; Assistant Professor in Arabic and Translation Studies
Al-Tamimi, Adil, PhD, Strathclyde University, 1990; Professor in Civil Engineering and Director, Institute of Material Systems (on sabbatical Spring 2014)
Albarch, Lutfi, PhD, University of Leeds, 1995; Associate Professor in Electrical Engineering (on sabbatical Spring 2014)
Al-Sayah, Mohamed, PhD, University of California at Berkeley, 2001; Assistant Professor in International Studies; Associate Dean, College of Arts and Sciences; (on sabbatical Spring 2014)
Angeli, Linda, DBA, Boston University, 1996; Director, International Exchange Office
Aouam, Tarik, PhD, Purdue University, 2005; Associate Professor in Engineering Systems Management
Arenfeldt, Pernille, PhD, European University Institute, 2006; Assistant Professor in International Studies
Arzagh, Mohammad, PhD, Brown University, 2003; Assistant Professor in Economics
Asa’d, Randa, PhD University of Cincinnati, 2012; Assistant Professor in Physics
Ashill, Nicholas, PhD, University of Bradford, 2004; Chalhoub Group Professor in Luxury Brand Management, Professor in Marketing, and Head, Department of Marketing
Assaf, Hamed, PhD, University of British Columbia, 1991; Visiting Assistant Professor in Civil Engineering
Assaleh, Khaled, PhD, Rutgers University, 1993; Professor in Electrical Engineering and Director of Graduate Studies
Atabay, Serter, PhD, University of Birmingham, 2001; Associate Professor in Civil Engineering
Full-Time Faculty

Ayish, Mohammad, PhD, Kansas State University, 1989; Professor in Civil Engineering
Aveyard, Mark, PhD, Florida State University, 2007; Assistant Professor in International Studies
Ayish, Mohammad, PhD, University of Minnesota, 1986; Professor in Mass Communications and Head, Department of Mass Communication

Badawi, Ayman, PhD, University of North Texas, 1993; Professor in Mathematics and Statistics (on sabbatical Fall 2013)
Badni, Kevin, MA, De Montfort University, 1996; Associate Professor in Art and Design and Head, Department of Art and Design
Baghestani, Hamid, PhD, University of Colorado, 1982; Professor in Economics
Bahroun, Zied, PhD, Université De Besancon, 2000; Associate Professor in Industrial Engineering
Baker, Jeffrey, PhD, Texas Tech University, 2008; Associate Professor in Management Information Systems
Bakri-Kassem, Maher, PhD, University of Waterloo, 2007; Assistant Professor in Electrical Engineering
Balthrop, Andrew, PhD, Georgia State University, 2012; Assistant Professor in Economics
Banerjee, Madhumita, PhD, University of Strathclyde, 2006; Visiting Assistant Professor in Marketing
Bantey, Paul, MFA, Whitcliff College of Arts and Design, 2005; Assistant Professor in Art and Design
Barlas, Gerassimos, PhD, National Technical University, Athens, 1996; Professor in Computer Science and Engineering
Bartholomew, Aaron, PhD, College of William and Mary, 2001; Associate Professor in Biology, Chemistry and Environmental Sciences
Bateman II, Robert E., PhD, University of Utah, 2004; Associate Professor in Management and Director, SBM Graduate and Executive Programs
Beheiry, Salwa, PhD, University of Texas at Austin, 2005; Assistant Professor in Civil Engineering
Bejtlic, Zinka, MA, International University of Sarajevo, 2012; Assistant Professor in Art and Design
Belkhodja, Omar, PhD, Laval University, 2006; Assistant Professor in Management
Bennett, Haydn, PhD, Strathclyde University, 2002; Visiting Associate Professor in Management
Ben Ouezdou, Monji, PhD, Case Western Reserve University, 1987; Visiting Professor in Civil Engineering
Berbić, Amir, MFA, The School of the Art Institute of Chicago, 2004; Associate Professor in Art and Design
Berenger, Ralph, PhD, Idaho State University, 2002; Associate Professor in Mass Communication
Bieber-Roberts, Peggy, PhD, University of Washington, 1990; Associate Professor in Mass Communication
Blank, Leland T., PhD, Oklahoma State University, 1970; Professor in Industrial Engineering and Management, and Interim Dean, College of Engineering
Bley, Jörg, PhD, Florida Atlantic University, 2000; Professor in Finance
Bodolica, Virginia, PhD, HEC Montreal Business School, 2006; Associate Professor in Management (on sabbatical Academic Year 2013–2014)
Boisvert, Jean, PhD, Macquarie Graduate School of Management, 2007; Assistant Professor in Marketing
Boubaki, Narjess, PhD, Université Laval, 2000; Professor in Finance and Head, Department of Finance
Breslow, Harris, PhD, University of Illinois, Champaign-Urbana, 1995; Associate Professor in Mass Communication
Brodtkorb, Tor, LLB, McGill University, 2000; Assistant Professor in Management

Cerro, Camilo, MArch, Columbia University, 1997; Visiting Assistant Professor in Architecture
Chappell, Henry, PhD, Yale University, 1979; Professor in Economics
Chávez, Daniel, MArch, University of New Mexico, 2001; Visiting Assistant Professor in Architecture
Chazi, Abdelaziz, PhD, University of North Texas, 2004; Associate Professor in Finance and Interim Director, Islamic Finance and Banking Program
Chebbi, Rachid, PhD, Colorado School of Mines, 1991; Professor in Chemical Engineering
Chowdhury, Muhammad, PhD, The University of Western Ontario, 2010; Visiting Assistant Professor in Chemical Engineering
Ciftci, Mustafa, PhD, The University of Texas at Dallas, 2006; Assistant Professor in Accounting
Conty, Arianne, PhD, University of California, 2009; Assistant Professor in International Studies
Cotterall, Sara, PhD, Macquarie University, 2011; Associate Professor in English
Crompton, Peter, PhD, Lancaster University, 2003; Associate Professor in English

Daghfous, Abdelkader, PhD, Pennsylvania State University, 1997; Associate Professor in Management Information Systems
Dahm, Carl Bob, MFA, University of Hartford, 2007; Assistant Professor in Art and Design
Dalibalta, Sarah, PhD, University of Leicester, 2008; Assistant Professor in Biology, Chemistry and Environmental Sciences
Danila, Liliana, MA, Clemson University, 2005; Assistant Professor in Economics
Darayehe, Musa, PhD, University of Nebraska–Lincoln, 1998; Professor in Accounting
Darras, Basil, PhD, University of Kentucky, 2008; Assistant Professor in Mechanical Engineering
Darwish, Naif, PhD, Oklahoma State University, 1991; Professor in Chemical Engineering and Head, Department of Chemical Engineering
DeGeorges, Thomas, PhD, Harvard University, 2006; Assistant Professor in International Studies
Deibab, Ibrahim, PhD, McMaster University, 2003; Associate Professor in Mechanical Engineering and Head, Department of Mechanical Engineering
Desai, Gaurang, PhD, University of Western Sydney, 2009; Assistant Professor in Art and Design
Dezhbakhsh, Ibrahim, PhD, Ohio State University, 1989; Professor of Economics and Interim Dean, School of Business and Management
Dhoudadi, Rachid, PhD, University of Minnesota, 1990; Professor in Electrical Engineering and Director, Mechatronics Engineering Program
Dickerson, Dwight, PhD, University of Los Angeles, California, 1998; Associate Professor in Visual and Performing Arts Program
Di Sabatino, Peter, MArch, Washington University, 1985; Professor in Architecture and Dean, College of Architecture, Art and Design
Dougan, Brian, MArch, Texas A&M University, 1989; Associate Professor in Architecture

East, Ken, MFA, University of Delaware, 1992; Assistant Professor in Performing Arts
Eberlein, Armin, PhD, University of Wales, 1998; Professor in Computer Science (on leave Academic Year 2013–2014)
Efimov, Dmitry, PhD, Moscow State University, 2008; Visiting Assistant Professor in Mathematics and Statistics
Egilmez, Mehmet, PhD, University of Alberta, 2009; Assistant Professor in Physics
El-Baz, Hazim, PhD, University of Missouri, Rolla, 1991; Associate Professor in S Systems Management
Full-Time Faculty

Eleftheriou, Maria, PhD, University of Leicester, 2011; Assistant Professor in Writing Studies
El-Emam, Magdi, PhD, Queen’s University, 2003; Assistant Professor in Civil Engineering
El-Fakh, Khaled, PhD, University of Ottawa, 2002; Associate Professor in Computer Science and Engineering
El-Hag, Ayman, PhD, University of Waterloo, 2004; Associate Professor in Electrical Engineering
El Kadi, Han, PhD, University of Alberta, 1993; Professor in Mechanical Engineering; Associate Dean, College of Engineering; and Director, CEN Graduate Programs
El-Kadri, Oussama, PhD, Wayne State University, 2006; Associate Professor in Biology, Chemistry and Environmental Sciences
El-Khatib, Sami, PhD, New Mexico State University, 2007; Assistant Professor in Physics
El-Mousfy, Mona, MArch, Georgia Institute of Technology, 1983; Assistant Professor in Architecture
Elrefaie, Ali, PhD, Polytechnic Institute of New York, 1983; Visiting Professor in Electrical Engineering
El-Sakran, Tharwat, PhD, University of Bangor, 1990; Professor in English
El-Sayed, Yehya, PhD, Graduate School of City University of New York, 2006; Assistant Professor in Biology, Chemistry and Environmental Sciences
El-Sayegh, Sameh, PhD, Texas A&M University, 1998; Associate Professor in Civil Engineering
El-Sinawi, Ameen, PhD, University of Dayton, 1999; Associate Professor in Mechanical Engineering
El-Tarhuni, Mohamed, PhD, Carleton University, 1997; Professor in Electrical Engineering and Head, Department of Electrical Engineering
Erice, Leopoldo, DMA, Stony Brook University, 2008; Assistant Professor in Performing Arts

F
Fahim Aly, Elrefaie, PhD, Polytechnic Institute of New York, 1993; Visiting Professor in Electrical Engineering
Faiq, Saida, PhD, Salford University, 1991; Professor in Arabic and Translation Studies
Fattah, Kazi, PhD, University of British Columbia, 2010; Assistant Professor in Civil Engineering
Filipović, Zlatan, MFA, Alfred University, 2001; Assistant Professor in Art and Design (on leave Fall 2013)
Fredrick, Daniel, PhD, Texas Christian University, 2003; Assistant Professor in Writing Studies

G
Gadalla, Mohamed, PhD, University of Alabama, 1988; Professor in Mechanical Engineering
Gandhi, Neena, PhD, University of Delhi, 2006; Assistant Professor in Writing Studies
Gassan, Richard, PhD, University of Massachusetts, 2002; Associate Professor in International Studies
Gatenby, Bruce, PhD, University of Arizona, 1992; Assistant Professor in Writing Studies
Gaybulloev, Khusrav, PhD, University of Texas at Dallas, 2009; Assistant Professor in Economics
Genc, Ismail, PhD, Texas A&M University, 1999; Professor in Economics and Head, Department of Economics
Gibbs, Joseph, PhD, Boston University, 1994; Professor in Mass Communication
Giesen, Martin, PhD, Heidelberg University, 1973; Professor in Art and Design (on sabbatical Spring 2014)
Gold, Gary, JD, Indiana University, 1991; Associate Professor in Management
Golley, Nawar Al-Hassan, PhD, Nottingham University, 1994; Professor in English
Goria, Narasimhaiah, PhD, University of Iowa, 1986; Professor in Management Information Systems (on leave Academic Year 2013–2014)
Gouia Ep Zarrad, Rim, PhD, University of South Carolina, 1992; Associate Professor in Economics

H
Hamdan, Nasser, PhD, Middle East Technical University, 1993; Professor in Physics, and Interim Head, Department of Physics
Hariga, Moncer, PhD, Cornell University, 1989; Professor in Engineering Systems Management and Head, Engineering Systems Management and Industrial Engineering programs
Hashem, Mahboub, PhD, Florida State University, 1984; Professor in Mass Communication (on sabbatical Spring 2014)
Hassan, Mohamed, PhD, University of Arizona, 2005; Associate Professor in Electrical Engineering
Hatim, Basil, PhD, University of Exeter, 1982; Professor in Arabic and Translation Studies (on leave Fall 2013)
Hawileh, Rami, PhD, University of Wisconsin-Milwaukee, 2005; Associate Professor in Civil Engineering
Heath, Peter, PhD, Harvard University, 1981; Professor in Arabic and Translation Studies, and Chancellor
Heintz, W. Erik, March, Harvard University, 1994; Associate Professor in Architecture
Hewett-Smith, Kathleen, PhD, University of California, 1991; Professor in English, and Head, Department of English
Hewitt, David, MFA, Cornell University, 1979; Associate Professor in Design
Hochstettler, Thomas, PhD, University of Michigan, 1980; Professor in International Studies and Acting Chancellor
Hossain, Mahmud, PhD, Baruch College, 2004; Assistant Professor in Accounting
Hotait, Mohammad, PhD, Ohio State University, 2011; Assistant Professor in Mechanical Engineering
Hughes, Michael, MArch, Princeton University, 1993; Associate Professor in Architecture and Head, Department of Architecture
Husni, Ronak, PhD, University of St. Andrews, 1986; Professor in Arabic and Translation Studies and Head, Department of Arabic and Translation Studies
Husseini, Ghaleb, PhD, Brigham Young University, 2001; Professor in Chemical Engineering
Hussein, Noha, PhD, Virginia Tech, 2005; Associate Professor in Industrial Engineering

I
Ibrahim, Mohammed, PhD, Hamburg University, 2006; Associate Professor in Mass Communication
Ibrahim, Tarek, PhD, Auburn University, 1997; Professor in Chemical Engineering
Imparato, Massimo, MArch, Universita Di Geneve, 1987; Visiting Assistant Professor in Architecture
Izwwani, Sattar, PhD, University of Manchester, 2004; Assistant Professor in Arabic and Translation Studies

J
Jackson, Eric, PhD, Michigan State University, 2004; Assistant Professor in Management
Jaidi, Asad Hasan, PhD, University of Kansas, 1993; Professor in Physics
Jaradat, Mohammad, PhD, Texas A&M University, 2005; Visiting Associate Professor in Mechanical Engineering
Jarrah, Abdul Salam, PhD, New Mexico State University, 2002; Associate Professor in...
Mathematics and Statistics
Jarrah, Mohammad-Ameen, PhD, Stanford University, 1989; Professor in Mechanical Engineering
Jayyusi-Lehn, Ghada, PhD, University of Toronto, 2007; Assistant Professor in Arabic and Translation Studies
Jhem, Ali, PhD, University of Minnesota, 1999; Assistant Professor in Mechanical Engineering
Jumean, Fawwaz, PhD, City University of New York, 1973; Professor in Biology, Chemistry and Environmental Sciences and Head, Department of Biology, Chemistry and Environmental Sciences

K
Kalle, Sadok, PhD, Stanford University, 1995; Associate Professor in Mathematics and Statistics
Kanan, Sofian, PhD, University of Maine, 2000; Professor in Biology, Chemistry and Environmental Sciences (on sabbatical Fall 2013)
Karavatos, Nicholas, MFA, New College of California, 1999; Assistant Professor in English
Kassam, Meenaz, PhD, University of Toronto, 1996; Associate Professor in International Studies
Katodrytis, George, AADip, Architectural Association School of Architecture, 1985; Associate Professor in Architecture (on sabbatical Spring 2014)
Katsos, John, JD, George Washington University, 2011; Assistant Professor in Management
Kaya, Ilker, PhD, University of Georgia, 2009; Assistant Professor in Economics
Kaya, Ozgur, PhD, University of Georgia, 2009; Assistant Professor Economics
Keck, Stephen, DPhil, University of Oxford, 1992; Associate Professor in International Studies and Head, Department of International Studies
Kemp, Linzi, PhD, Manchester Metropolitan University, 2003; Assistant Professor in Management
Kennedy, Thomas, MLA, Cornell University, 1991; Assistant Professor in Architecture
Kesrouany, Maya, PhD, Emory University, 2011; Assistant Professor in English
Khalidi, Bouthaina, PhD, Indiana University, 2008; Assistant Professor in Arabic and Translation Studies
Khalaf, Ashraf, PhD, Florida Atlantic University, 2004; Associate Professor in Accounting
Khamis, Mustafa, PhD, University of California, 1987; Professor in Biology, Chemistry and Environmental Sciences
Khan, Sajid, PhD, University of Manchester, 2001; Associate Professor in Marketing (on sabbatical Academic Year 2013–2014)
Khan, Zahid, PhD, University of Western Ontario, 2007; Visiting Assistant Professor in Civil Engineering
Khankhurin, Anatoly, PhD, City University of New York, 2005; Associate Professor in International Studies
Khatri, Line, PhD, McGill University, 2010; Assistant Professor in International Studies
Kherfi, Samer, PhD, Simon Fraser University, 2002; Assistant Professor in Economics
Khoury, Sueheil, PhD, Michigan State University, 1994; Professor in Mathematics and Statistics (on sabbatical Spring 2014)
Kiranyaz, Serkan, PhD, Tampere University of Technology, 2005; Visiting Associate Professor in Electrical Engineering
Klein, Andrew, PhD, University of Illinois at Chicago, 2003; Assistant Professor in Management
Knuteson, Sandra, PhD, Clemson University, 2004; Lecturer in Biology, Chemistry and Environmental Sciences
Kolo, Jerry, PhD, University of Waterloo, 1986; Professor in Urban Planning
Koytan Chatthoth, PhD, Virginia Tech, 2002; Associate Professor in Marketing
Kucuk, Ismail, PhD, University of Utah, 2001; Associate Professor in Mathematics and Statistics

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Landolsi, Taha, PhD, University of Texas at Dallas, 1999; Associate Professor in Computer Science and Engineering and Director, CISCO Academy
Lanteigne, Betty, PhD, Indiana University of Pennsylvania, 2004; Associate Professor in English
Lea, David, PhD, University of Ottawa, 1990; Professor in International Studies
Leduc, Guillaume, PhD, Carleton University, 1995; Associate Professor in Mathematics and Statistics
Linebaugh, Gary, PhD, University of Illinois at Urbana, 2007; Assistant Professor in English
Luchetti, Cristiano, MArch, Pennsylvania State University, 2004; Assistant Professor in Architecture

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Mabura, Lily, PhD, University of Missouri-Columbia, 2010; Assistant Professor in English
Mainwaring, Angela, PhD, University of California, 2007; Assistant Professor in International Studies
Majdalawieh, Amin, PhD, Dalhousie University, 2006; Associate Professor in Biology, Chemistry and Environmental Sciences
Majeed, Tariq, PhD, York University, 1991; Associate Professor in Physics (on sabbatical Fall 2013)
Mansoor, Bilal, PhD, University of Michigan, 2010; Visiting Assistant Professor in Mechanical Engineering
Marshall, Timothy, PhD, University of Auckland, 1995; Associate Professor in Mathematics and Statistics
McClelland, Patrick, PhD, University of Kansas, 2008; Assistant Professor in Management
Mcloughlin, Linda, MBS, University College Dublin, 1995; Senior Lecturer in Marketing and Placement Director (on leave Fall 2013)
Melkonian, Michael, PhD, University of Southampton, 1994; Visiting Assistant Professor in International Studies
Mir, Hasan, PhD, University of Washington, 2005; Associate Professor in Electrical Engineering
Mitchell, Kevin, MArch, University of Washington, 1996; Associate Professor in Architecture and Vice Provost for Undergraduate Affairs and Instruction
Mokhtar, Ahmed, PhD, Concordia University, 1998; Associate Professor in Architecture, and Associate Dean, College of Architecture, Art and Design
Moran, Catherine, MFA, University of Texas, 2002; Assistant Professor in Performing Arts
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<td>PhD, City University of New York, 2012; Assistant Professor in Marketing</td>
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<td>Sen, Gautam</td>
<td>PhD, The University of Texas at Dallas, 1981; Professor in Biology, Chemistry and Environmental Sciences, and Vice Provost for Research and Graduate Studies</td>
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<td>Seneviratne, Padmapani</td>
<td>PhD, Clemson University, 2007; Assistant Professor in Mathematics and Statistics</td>
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<td>PhD, University of Essex, 2001; Associate Professor in Computer Science and Engineering</td>
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<td>Shareefdeen, Zarook</td>
<td>PhD, New Jersey Institute of Technology, 1994; Associate Professor in Chemical Engineering (on foundations Spring 2014)</td>
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<td>MFA, University of Calgary, 1995; Associate Professor in Art and Design</td>
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<td>Shih, Shou-Hsing</td>
<td>PhD, University of South Florida, 2008; Assistant Professor in Mathematics and Statistics</td>
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<td>Shine, Anne</td>
<td>PhD, Massey University, 2008; Assistant Professor in Writing Studies</td>
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<td>Simonet, Daniel</td>
<td>PhD, University of Paris IX Dauphine, 1998; Associate Professor in Management</td>
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<td>Smith, Susan</td>
<td>MA, University of Southern California, 1994 Associate Professor in Mass Communication</td>
</tr>
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<td>Spraggan-Hernandez, Martin</td>
<td>PhD, HEC Montreal, 2007; Associate Professor in Management (on leave Academic Year 2013–2014)</td>
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<td>Squalli, Jay</td>
<td>PhD, University of Delaware, 2004; Associate Professor in Economics</td>
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<td>PhD, Columbia University, 2009; Associate Professor in International Studies</td>
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<td>Storseth, Terri</td>
<td>PhD, University of Washington, 1997; Assistant Professor in Writing Studies, and Head, Department of Writing Studies</td>
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<td>Suleiman, Hana</td>
<td>PhD, Queen's University, 1998; Associate Professor in Mathematics and Statistics</td>
</tr>
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<td>Swanstrom, John</td>
<td>MFA, American Film Institute, 1998; Assistant Professor in Art and Design</td>
</tr>
<tr>
<td>Sweet, Kevin</td>
<td>MArch, Columbia University, 2003; Associate Professor in Architecture (on sabbatical Fall 2013)</td>
</tr>
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<td>Syed, Raza</td>
<td>PhD, Northeastern University, 2005; Assistant Professor in Physics</td>
</tr>
<tr>
<td>Tabbarah, Faysal</td>
<td>MArch, Architectural Association School of Architecture, 2011; Assistant Professor in Architecture</td>
</tr>
<tr>
<td>Tabsh, Sami</td>
<td>PhD, University of Michigan, 1990; Professor in Civil Engineering</td>
</tr>
<tr>
<td>Taha, Mustafa</td>
<td>PhD, Ohio University, 2001; Assistant Professor in Mass Communication</td>
</tr>
<tr>
<td>Tahboub-Chelte, Sabrina</td>
<td>PhD, Manchester Metropolitan University, 2009; Assistant Professor in International Studies (on leave Fall 2013)</td>
</tr>
<tr>
<td>Tassia, Anthony</td>
<td>MFA, The University of Tennessee, Knoxville, 1995; Professor in Performing Arts and Coordinator, Performing Arts Program</td>
</tr>
<tr>
<td>Thompson, Seth</td>
<td>MFA, Vermont College of Norwich University, 1997; Assistant Professor in Art and Design (on sabbatical Spring 2014)</td>
</tr>
<tr>
<td>Tibbs, Samuel</td>
<td>PhD, Thomas Edison State University, 2003; Assistant Professor in Finance</td>
</tr>
<tr>
<td>Tijani, Olatunbosun</td>
<td>PhD, University of Edinburgh, 2005; Associate Professor in Arabic and Translation Studies (on sabbatical Fall 2013)</td>
</tr>
<tr>
<td>Toledo, Hugo</td>
<td>PhD, Auburn University, 1999; Professor in Economics</td>
</tr>
<tr>
<td>Tracy, Kenneth</td>
<td>MArch, Columbia University, 2005; Assistant Professor in Architecture</td>
</tr>
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Trenkov, Ludmil, MFA, Art Centre College of Design, 2006; Assistant Professor in Art and Design

Turcan, Alper, PhD, The University of Western Ontario, 2008; Visiting Assistant Professor in Civil Engineering

U

Uygul, Faruk, PhD, University of Alberta, 2007; Assistant Professor in Mathematics and Statistics

V

Vincent, Clement, MArch, ENSAD University, 1997; Assistant Professor in Art and Design

Vinke, Jeannette, CA, Institute of Chartered Accountants, England and Wales, 2000; Senior Lecturer in Finance and Accounting

W

Wahba, Essam, PhD, University of California, 2004; Associate Professor in Mechanical Engineering

Wallis, Joseph, PhD, Rhodes University, 1984; Professor in Management and Head, Department of Management (on sabbatical Fall 2013)

Waxin, Marie-France, PhD, University of Marseilles, 2000; Associate Professor in Management and Director of MBA Programs

Williams, A. Paul, PhD, The University of Western Australia, 2004; Professor in Marketing and Associate Dean, School of Business and Management

Wunderli, Thomas, PhD, University of Florida, 2003; Assistant Professor in Mathematics and Statistics

X

Xu, Xiaobo, PhD, University of Mississippi, 2005; Associate Professor in Management Information Systems

Y

Yehia, Sherif, PhD, University of Nebraska-Lincoln, 1999; Associate Professor in Civil Engineering

Yesildirek, Aydin, PhD, University of Texas at Arlington, 1994; Associate Professor in Electrical Engineering and Mechatronics and Director, Mechatronics Graduate Program

Yogiaman, Christine, March, Columbia University, 2007; Assistant Professor in Architecture

Yoonbai, Kim, PhD, Stanford University, 1987; Professor in Economics

Younas, Javed, PhD, West Virginia University, 2007; Associate Professor in Economics

Young, Karen, PhD, City University of New York, 2009; Assistant Professor in International Studies

Z

Zaki, May, PhD, Middlesex University, 2011; Assistant Professor in Arabic and Translation Studies

Zantout, Zaher, PhD, Drexel University, 1990; Professor in Finance

Zhao, Fang, PhD, University of Western Sydney, 1998; Associate Professor in Management and Acting Head, Department of Management (Fall 2013)

Zoubi, Taisier, PhD, University of North Texas, 1992; Professor in Accounting and Head, Department of Accounting

Zualkernan, Imran, PhD, University of Minnesota, 1991; Associate Professor in Computer Science and Engineering

Zurigat, Yousef, PhD, Oklahoma State University, 1988; Visiting Professor in Mechanical Engineering
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<td>Tuition Refunds</td>
<td>20 (Penalties, 6), 24 (Withdrawal from the University), 28 (Switching from Thesis to Project)</td>
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<td>University Administrators</td>
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<td>University, Overview</td>
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<td>Vision Statement</td>
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<td>Registration</td>
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<tr>
<td>Withdrawal from a Course</td>
<td>24, also see Add and Drop</td>
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<tr>
<td>Withdrawal from the University</td>
<td>24</td>
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