



جامعة الإمارات العربية المتحدة
United Arab Emirates University

UAEU



COLLEGE OF ENGINEERING

2016 / 2017



WELCOME TO
United Arab Emirates

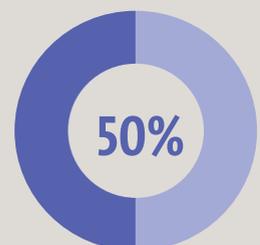
Success
Excellence
Living
Inspired
Learning
Opportunity
Develop
National University
Research Intensive

Quality
Leader
Learn Graduate
Excel
Choice
Innovation

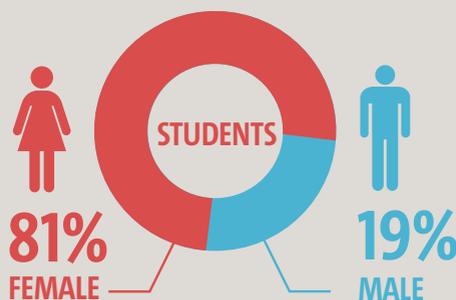
University
Knowledge

Flagship
Your Future
Career
High-Tech
Accredited
Achieve
Community
Mobile Learning
New Skills

Fact Sheet



OF STUDENTS
LIVE IN RESIDENCE



REGISTERED STUDENTS
IN 2015-2016

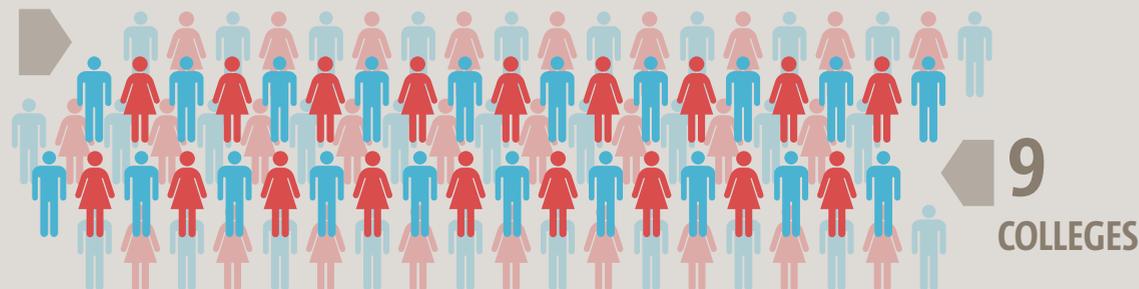


ESTABLISHED IN 1976

80 HECTARES – SIZE OF THE CAMPUS

THE NATIONAL UNIVERSITY

62,552
GRADUATES



52 BACHELOR'S DEGREE PROGRAMS



31 MASTER'S PROGRAMS



A DOCTOR OF MEDICINE (MD)



A DOCTOR OF PHARMACY (PHARM.D)



A Ph.D PROGRAM



A DOCTOR OF BUSINESS ADMINISTRATION (DBA)



#1 UNIVERSITY IN THE UAE

#6 IN THE ARAB WORLD

#500 TOP GLOBALLY

QS WORLD UNIVERSITY RANKINGS 2015/2016

ONE OF THE TOP 50 UNIVERSITIES FOUNDED IN THE PAST 50 YEARS

QS World University Rankings 2012



LARGEST NUMBER OF ELECTRONIC RESOURCES IN THE ARAB WORLD

170,000+ E-BOOKS

50,000+ E-JOURNALS

100+ DATABASES

LABS ON CAMPUS

480

46

CLUBS & SOCIETIES ON CAMPUS

64

STUDENTS FROM 64 COUNTRIES (INCLUDING UAE)

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DEAN'S MESSAGE

Engineering is a combination of knowledge, skills, creativity, innovation, management, commitment and ethics. It is the art of making practical applications of the knowledge of pure science. It is all about solving real life problems and providing optimum solutions and designs. Engineers shape the future of the nations and enhance the quality of life of the population.

The College of Engineering (COE) is distinguished by its rich tradition, commitment to heritage and innovation, and high ambitions to achieve excellence in teaching, research and services. The journey of the COE started in 1980, and since then the College continued to grow and flourish to become one of the few most comprehensive educational and research intensive Engineering Colleges in the region. The College aspires to become among the well-known and top-ranked Engineering Colleges at the international level.

The COE consists of five main departments offering an array of undergraduate, masters and PhD programs. These departments include; Architectural Engineering, Chemical and Petroleum Engineering, Civil and Environmental Engineering, Electrical Engineering and Mechanical Engineering. All undergraduate programs are ABET accredited.

The success of undergraduate and graduate programs offered by the COE has been supported by highly qualified and distinguished faculty and staff, who continue to set the highest standards of excellence in teaching and research in their fields of expertise. The students in the College of Engineering are provided with fantastic opportunities to be involved in many career development aspects; including, among others, extracurricular activities, participation in faculty research, and taking internships in high-tech companies.

I highly encourage you to review our website, explore study and career opportunities at the COE, learn more about our undergraduate and graduate programs, and perhaps visit our advanced educational facilities and research labs. The COE has a lot to offer both in the classrooms and out.



Prof. Sabah Alkass
Dean, College of Engineering

OVERVIEW OF THE COLLEGE

The College of Engineering was inaugurated in 1980 and includes five academic departments offering seven Bachelor's degrees: namely Architectural Engineering, Chemical Engineering, Civil Engineering, Communication Engineering, Electrical Engineering, Mechanical Engineering, and Petroleum Engineering, all of which are recognized nationally by the Ministry of Higher Education and Scientific Research, in addition to international accreditation by the US-based Accreditation Board for Engineering and Technology (ABET) since 2008. The engineering departments also offer M.Sc. degrees in all the Bachelor's disciplines plus Water Resources, Material Science and Engineering, and an interdisciplinary Masters in Engineering Management. Ph.D. studies are also offered in all the scientific disciplines.

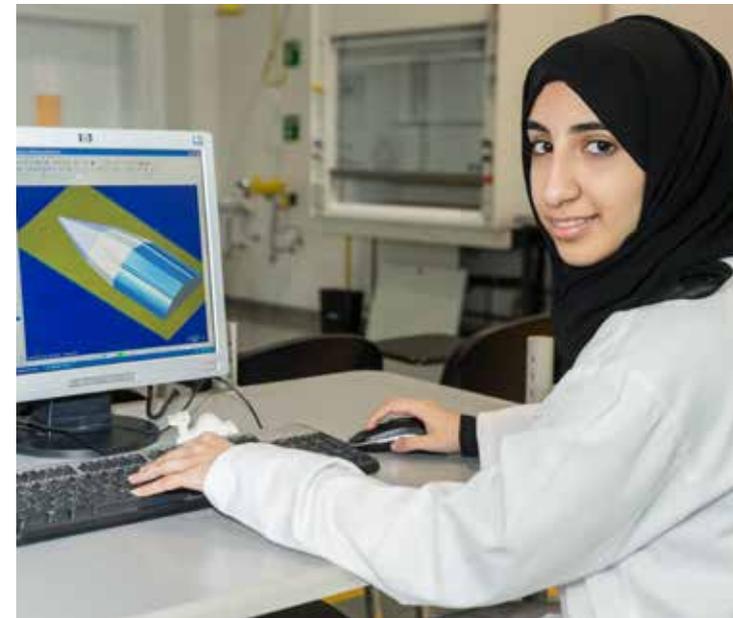
Students will complete their studies in the new state-of-the-art university campus that includes world-class facilities and laboratories. These new facilities position UAEU as a top-class provider of engineering programs. It has greatly enhanced the teaching, learning, and research environment for students through smart classroom technologies and curriculum material readily available through the Blackboard course-hosting portal. College programs integrate industry-standard engineering software for analysis and design such as LabView, AutoCAD, HYSYS, Fluent, ABACUS, ANSYS, and others. Through partnerships with industry, students use specialized industry packages in their designs and research projects. These tools, combined with educational pedagogy that emphasizes interactive teaching and learning, project based learning, and communication and team skills, have significantly enhanced the educational experience of UAEU engineering students.

The effectiveness of the College of Engineering in designing and delivering quality academic programs has been greatly facilitated by partnerships, which have been forged with the public and private sectors throughout the UAE. Bachelor's students conduct their internship training at over 200 companies and organizations throughout the UAE and internationally, and industry representatives regularly provide informative seminars to students. Both representatives from the industry and college alumni provide valuable feedback to the engineering departments to ensure that curricula are updated to meet industry needs and the requirements of accrediting bodies.

"Studying at UAEU is an interesting and enriching experience where I have learned many positive qualities such as how to be a better team player, communicator and motivator. This is also reflected in my daily life and has made me more confident in myself."

Mariam AlNuaimi,
Civil and Environmental
Engineering, 5th Year

ACADEMIC PROGRAMS



UNDERGRADUATE PROGRAMS:

- Bachelor of Science in Architectural Engineering
- Bachelor of Science in Chemical Engineering
- Bachelor of Science in Civil Engineering
- Bachelor of Science in Communication Engineering
- Bachelor of Science in Electrical Engineering
- Bachelor of Science in Mechanical Engineering
- Bachelor of Science in Petroleum Engineering

MASTER PROGRAMS:

- Master of Science in Architectural Engineering
- Master of Science in Chemical Engineering
- Master of Science in Civil Engineering
- Master of Science in Electrical Engineering
- Master of Engineering Management
- Master of Science in Material Science & Engineering
- Master of Science in Mechanical Engineering
- Master of Science in Petroleum Engineering
- Master of Science in Water Resources

Ph.D. PROGRAMS:

- Doctor of Philosophy in Architectural Engineering
- Doctor of Philosophy in Chemical Engineering
- Doctor of Philosophy in Civil Engineering
- Doctor of Philosophy in Electrical Engineering
- Doctor of Philosophy in Material Science and Engineering
- Doctor of Philosophy in Mechanical Engineering
- Doctor of Philosophy in Petroleum Engineering
- Doctor of Philosophy in Water Resources



UNDERGRADUATE INFORMATION

BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING

Architectural Engineering is an ideal profession for individuals interested in the built environment in general and buildings in particular. The Architectural Engineering Program emphasizes sustainable design and building construction, preparing students to make personal and professional contributions to the improvement and development of the built environment. Comprehensively aligned with the international standards of ABET, the program delivers the highest quality design engineering education possible, offering students laboratory supported opportunities ranging from day-lighting and environmental simulation to digital design and computer-aided modeling and fabrication. Graduates of this program are highly qualified to serve the nation's ongoing commitment to responsible sustainable growth in the built environment.

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Chemical Engineering is concerned with the manufacture of products from laboratory bench-scale testing to full production via deep knowledge of fluid mechanics, heat transfer, mass transfer, chemical reaction kinetics, equipment design, plant design, process dynamics and control as well as process safety, economics, and management. It has an impact on everything, from food processing and producing pharmaceutical drugs, to generating fuels and manufacturing silicon chips and other microelectronics. Chemical Engineers are in the business

of helping people live longer and live better lives. They are commonly referred to as 'Universal Engineers'. Our students get involved in cutting edge technology guided by professors of the highest caliber.

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

The Civil Engineering Program at UAEU is ABET accredited. The program is designed to provide students with the knowledge, skills and experience in every civil and environmental engineering area such as structural engineering, transportation and highway engineering, construction management, water resources and environmental engineering, surveying and geotechnical and foundation engineering. Several well-equipped laboratories serve different specialties within the department together with highly qualified faculty members and staff to teach and mentor students.

"My studies at the College of Engineering have made me a more creative and ambitious person with very bright career prospects ahead. It combined both of my passions: engineering and education."

Marwan Suhail Musallam,
Architectural Engineering, 5th Year

BACHELOR OF SCIENCE IN COMMUNICATION ENGINEERING

The Communication Engineering Program covers the core aspects of electrical and electronic engineering and provides more in-depth courses in communication engineering. The courses cover a wide range of communication engineering topics such as analog and digital communication systems, mobile and wireless communication systems, satellite communication systems,

digital signal processing, computer communication and networking.

Communication engineering graduates can work in a number of industries including networking and telecommunications, audio and video broadcasting, satellite communication, computer communication and internet providers.



BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

The objective of this program is to prepare future engineers for employment in the related areas of power generation and distribution, oil and gas engineering, computer engineering, microprocessors, control systems, industrial automation, electronics, electrical systems, power electronics, biomedical devices, aerospace, and automotive engineering. Electrical Engineers are trained to design, develop, test, operate and maintain electrical equipment and devices.

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Mechanical engineering is perhaps the oldest and broadest engineering discipline with a whole world of excitement and challenges and ultimately rewarding and fulfilling career opportunities. Students interested in studying mechanical engineering will be exposed to systems ranging from nano-scale devices to large-scale power plants. Complex mechanical systems involve structures, advanced materials, robots and mechatronics, sensors and energy and thermo-fluid systems and bioengineering devices. Mechanical engineering students are exposed to core engineering disciplines through the study and application of basic scientific principles to a broad range of systems. Laboratory work and industry led projects allow graduates to be ready to create the next generation of ideas and products.

BACHELOR OF SCIENCE IN PETROLEUM ENGINEERING

The Petroleum Engineering Program is carefully designed to prepare graduates for challenging careers in the oil and gas industry. Petroleum engineers search the world for reservoirs containing oil or natural gas and work with geologists and other specialists to understand the geologic formation and properties of the rock containing

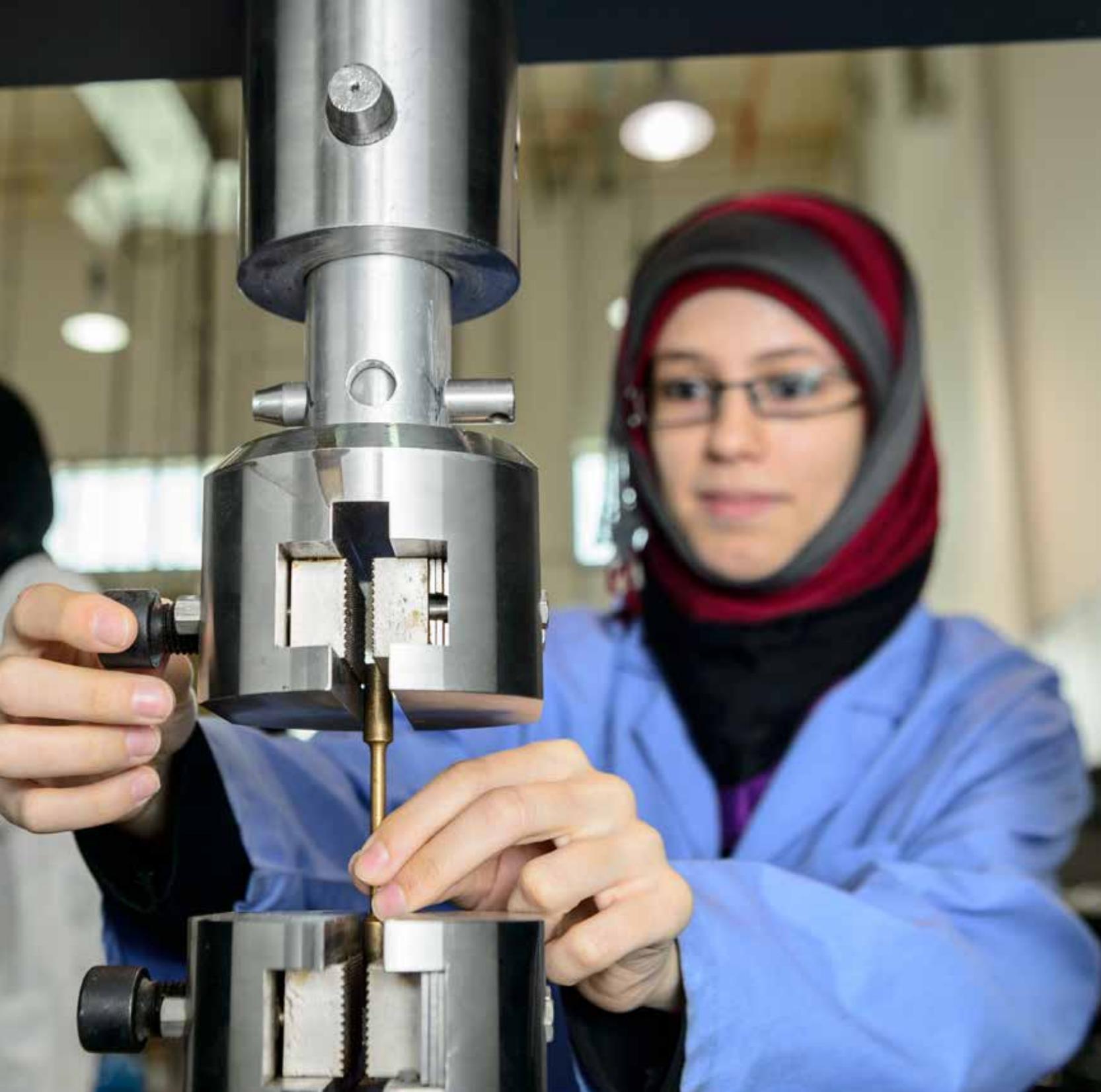
the reservoir, determine the drilling methods to be used, and monitor drilling and production operations. Petroleum engineers design equipment and processes to achieve maximum and cost-efficient recovery of oil and gas. They rely heavily on computer models to simulate reservoir performance using different recovery techniques. Petroleum engineering broadly consists of drilling, reservoir and production streams. The mission of the program is to meet the educational, research and service needs of UAE society.

ADMISSION CRITERIA

To be eligible for admission to the UAEU undergraduate programs, applicants must obtain a minimum of 75% on their Grade 12 Certificate or its equivalent if studies were carried out in International Baccalaureate, British, or American high school curricula. Furthermore, applicants are required to achieve a minimum of 80% in mathematics and 80% in either physics or chemistry on their GSC exam or equivalent. Applicants must also score 150 or above in the CEPA English exam. These are the minimum admission criteria.

Interested candidates should use the common National Admissions and Placement Office (NAPO) application form to apply to UAEU. The form is available from secondary schools, the UAEU Admission's Office or NAPO.

Success at UAEU requires proficiency in math, Arabic and English languages. Students admitted to the University are placed either directly into the undergraduate degree program or into the University Foundation Program (UFP). UFP is the bridge between high school and the degree programs offered at UAEU. Placement in a UFP course level will depend on the students' score in the UFP Placement Exams. There are four levels of English, one to three levels in mathematics and two levels in Arabic.



To be considered for direct admission to an undergraduate degree program, applicants must satisfy the following requirements:

- ▶ Proof of English-language proficiency, which may take one of the following forms:
 - A minimum TOEFL score of 500 or 61 IBT
 - A minimum IELTS score of 5.0
- ▶ Pass placement tests in Arabic Language.
- ▶ Additionally, to be eligible to take the math strand courses, students should pass the COMPASS math benchmark test covering algebra and pre-calculus topics.

Students are advised to try to complete both the TOEFL or IELTS benchmark tests and the COMPASS math test during high school so their university studies are not delayed.

** Please note that these are the minimum admission criteria, further details can be obtained from the Admissions Department.*

GRADUATION REQUIREMENTS

The duration of the undergraduate degree programs is approximately 4 years. A minimum of 147 credit hours is required for graduation. Students must complete the 8 semester curriculum plan with a minimum GPA of 2.0, including the internship.

INTERNSHIPS

UAEU has integrated mandatory internships for all undergraduate students as part of their degree program. Through the Industrial Training and Graduation Projects (ITGP) Unit, students are guided, prepared, and placed in national and international private or government organizations. This industrial training spans a full semester and provides students with professional experience that cannot be obtained in an academic environment. In addition, students can only enroll in their graduation project courses upon successful completion of the industrial training.

CAREER OPPORTUNITIES

There are many career opportunities available to engineering graduates in both private and government organizations. Demand for engineering graduates is very high. For example, 400 - 500 students are typically sponsored in any one year by several organizations seeking to recruit them after graduation. Careers include technical positions in several industries and public organizations such as petroleum, construction, manufacturing, medical, radio, TV, media, communication companies, public works, municipalities, transport authorities, power and water utilities, and new industries such as the biotechnology, semiconductor, nuclear, aerospace, and others industries.

"Joining the engineering community at UAEU was one of the best choices I made. I have learned many valuable skills and knowledge to aid my career. The courses I studied were challenging and demanding, yet also enjoyable and fascinating. I could not have done it without the help and support of my instructors."

Sara Al Naqbi,
Chemical Engineering, 4th Year



GRADUATE INFORMATION

MASTER'S PROGRAMS

The College of Engineering offers the following Master's programs:

- ▶ Master of Science in Architectural Engineering
- ▶ Master of Science in Chemical Engineering
- ▶ Master of Science in Civil Engineering
- ▶ Master of Science in Electrical Engineering
- ▶ Master of Engineering Management (Al Ain and Abu Dhabi)
- ▶ Master of Science in Material Science and Engineering
- ▶ Master of Science in Mechanical Engineering
- ▶ Master of Science in Petroleum Engineering
- ▶ Master of Science in Water Resources

Qualified students can register in any of these programs on a thesis plan requiring 30 credit hours or a non-thesis plan requiring 33 credit hours for completion. Class scheduling takes into consideration that most participants are from the industry thus, classes are scheduled two evenings a week from 5-9 p.m. or on Saturdays.

The college departments offer a limited number of Graduate Teaching Assistantships (GTAs) for higher achieving graduate students providing up to AED 7,000/month over a two-year period in exchange for part-time assistance in teaching. Other graduate students may also be offered Graduate Research Assistantships (GRAs) funded through faculty research grants. All such positions are usually posted on the university's employment site or by contacting the relevant department or graduate program coordinator.

ADMISSION CRITERIA

The following are the minimum requirements for admission to the Master's Programs at UAEU:

- ▶ A Bachelor's degree or its equivalent from an accredited university recognized by the UAE Ministry of Higher Education and Scientific Research, in an area appropriate to the academic area to which application is being made.
- ▶ A cumulative Grade Point Average (GPA) of 3.0 on a 4.0 scale or equivalent, in all undergraduate work.
- ▶ A score of at least 6.0 on the IELTS (International English Language Testing System) Academic exam or equivalent, for all disciplines delivered predominantly in English. This test score must be less than two years old at the time of application, with the following exceptions:
 - A native speaker of English who has completed his/her undergraduate education in an English-medium institution and in a country where English is the official language; or
 - An applicant with an undergraduate degree from an English-medium institution who can provide evidence of acquiring a minimum TOEFL score of 500 on the paper-based test, or its equivalent, at the time of admission to his/her undergraduate program.

Under certain conditions, admission into a Master's program may be granted if the GPA or the IELTS score is less than the minimum requirement. These requirements are subject to the general university criteria for admission to graduate programs and may be updated regularly.



Interdisciplinary programs usually use the general admission criteria while disciplinary programs typically require the applicant to have obtained his/her bachelor's degree in the same disciplinary area, e.g. chemical engineering or electrical engineering. Otherwise, and on a case-by-case basis, candidates may be admitted conditionally after completing a set of deficiency courses if their bachelor's degree is in a closely related area.

** Please note that these admission requirements may be subject to change. Please refer to the UAEU website for further details.*

FEE STRUCTURE

All M.Sc. programs offered in the College of Engineering at the UAEU campus in Al-Ain have a tuition rate of AED 1,600 per credit hour or a total of approximately AED 50,000 for the whole program over 2 years. Tuition rates are subject to periodic review. The college plans to offer a Master's of Engineering Management in Abu Dhabi. The tuition rate for the program in Abu Dhabi will be AED 3,650 per credit hour and the total program will cost approximately AED 120,000 over a 2 year period. The university offers optional graduate student housing at a rate of AED 5,600/semester including room and board. The college also offers a limited number of Teaching and Research Assistantships on a competitive basis.

GRADUATION REQUIREMENTS

Students may enroll on a full-time or part-time basis. The language of instruction is English. Full-time students are expected to complete the degree requirements in 4 semesters (two academic years). Part-time students are expected to complete their study in 6 semesters (three academic years).

Students must complete the minimum required 30 credit hours for the thesis option, which includes 6 credit hours of research leading to a thesis, and 33 credit hours for the non-

thesis option, which include 3 credit hours for work on a research/design paper. Students are expected to keep their GPA above 3.0 on a 4.0 scale. Students who select the thesis option must successfully defend the thesis in an oral exam.

Ph.D. PROGRAM

The College of Engineering offers a Doctor of Philosophy. The Ph.D. program provides candidates with the training necessary for leading research and academic positions.

Ph.D. concentrations include:

- ▶ Doctor of Philosophy in Architectural Engineering
- ▶ Doctor of Philosophy in Chemical Engineering
- ▶ Doctor of Philosophy in Civil Engineering
- ▶ Doctor of Philosophy in Electrical Engineering
- ▶ Doctor of Philosophy in Material Science and Engineering
- ▶ Doctor of Philosophy in Mechanical Engineering
- ▶ Doctor of Philosophy in Petroleum Engineering
- ▶ Doctor of Philosophy in Water Resources

ADMISSION CRITERIA

The following are the minimum requirements for admission to the Ph.D. Program at UAEU.

- ▶ A Master's Degree from an accredited university recognized by the UAE Ministry of Higher Education and Scientific Research, in an area appropriate to the academic area to which application is being made.
- ▶ A minimum cumulative GPA of 3.3 on a 4.0 scale or equivalent, in the Master's degree earned at an accredited university recognized by the UAE Ministry of Higher Education and Scientific Research.
- ▶ A score of 6.5 or higher on the IELTS Academic exam or equivalent, for all disciplines in which the main language of instruction is English or the dissertation must be written in English. This test score must be less than two years old at the time of application.
- ▶ A minimum IELTS score of 5.0 or equivalent is required for



admission into an offering of the Ph.D. Program whose language of instruction is Arabic.

- ▶ Successfully pass an interview with the University Ph.D. Program Committee.
- ▶ In addition to the above, applicants are recommended to submit the official score of the Graduate Record Examination (GRE) General Test, which may be taken into account in the ranking of applicants for admission or scholarship.

** Please note that these admission requirements may be subject to change. Please refer to the UAEU website for further details.*

FEE STRUCTURE

Fees for the Ph.D. program are set at AED 2,400 per credit hour and the university offers optional graduate student housing at AED 5,600/semester including room and board. A limited number of scholarships, fellowships and Teaching and Research Assistantships are also available on a competitive basis.

GRADUATION REQUIREMENTS

Graduation requirements include a minimum of 25 credit hours for courses beyond the M.Sc. degree plus 30 credit hours for dissertation research. These are the minimum requirements; however, the advising committee may suggest more courses if required. All Ph.D. students are required to take the following two general requirement courses:

- ▶ GENG 710: Research Methodology
- ▶ GENG 711: Ph.D. Seminar

In addition to the above two courses, all Ph.D. students are required to have proficiency in 2 of the following 3 areas at graduate level:

- ▶ GENG 721: Numerical Methods in Engineering (pre-requisite: MATH 2210 Differential Equations or equivalent)

- ▶ GENG 720: Analytical Techniques in Engineering (pre-requisite: MATH 2210 Differential Equations or equivalent)
- ▶ STAT 715: Design/Analysis of Experiments (pre-requisite: STAT 220 or STAT 503)

Program coordinators can set one of the above 3 courses (GENG 721, GENG 720, STAT 715) as a mandatory course. Ph.D. students are also required to take 9 credit hours of courses from their specific program/concentration in addition to some elective courses to reach the 25 credit hours of required courses. Ph.D. students are expected to complete the above requirements in 3 semesters.

Furthermore, all registered Ph.D. students are required to pass a qualifying exam during which the Ph.D. students' ability to identify, formulate and propose technical solutions, critical thinking and reasoning to the assigned problems will be assessed. Upon passing the qualifying exam, students will become Ph.D. candidates. Students are also required to pass the prospectus exam, which assesses the student's proposed dissertation research topic, in particular, the viability of the proposed research as a Ph.D. topic and the student's technical readiness to carry it out will be assessed. Finally, students must successfully defend their Ph.D. dissertation in an oral exam.

"As well as top research facilities, the department offers a friendly atmosphere with world-class faculty."

Salem Al Mahri,
Mechanical Engineering, 4th Year

RESEARCH CAPABILITIES



The college faculty members are very active in both basic and applied research as evident from the number of grants obtained, resulting publications and conference participation during each academic year.

Scientific research in the College of Engineering is organized under the following 6 domains:

- ▶ Computer, Power, Telecommunications & Microelectronics
- ▶ Manufacturing and Process Engineering
- ▶ Bio, Nano and Emerging Technologies
- ▶ Energy, Water and Environment
- ▶ Design, Construction and Building Technologies
- ▶ Transportation and Roads

Research areas within each department are listed below:

ARCHITECTURAL ENGINEERING

1. Architectural Theory and Criticism
2. Urban Planning and Infrastructure
3. Building Construction and Project Management
4. Sustainable Built Environment
5. Building Performance and Technology

CHEMICAL ENGINEERING

1. Biotechnology and Biochemical Engineering
2. Carbon Capture and Storage
3. Catalytic and Photocatalytic Reactions
4. Desalination and Water Purification
5. Environmental Engineering
6. Food and Pharmaceutical Processing



7. Gas Separations and Membranes
8. Wastewater Treatment
9. Nanotechnology and Nanobiocomposites
10. Plasma Technology
11. Polymers and Thermoplastics

CIVIL ENGINEERING

1. Structural Engineering
2. Geotechnical Engineering
3. Water Resources and Environmental Engineering
4. Highway and Transportation Engineering
5. GIS and Surveying
6. Construction Management

ELECTRICAL ENGINEERING

1. Power Systems, Power Electronic and Control Systems
2. Electronics and Microelectronics
3. Communications Signal Processing and Communication Networks
4. Computer Systems and Networks
5. Renewable Energy
6. Unmanned Aerial Vehicles (UAV)

MATERIAL SCIENCE AND ENGINEERING

1. Polymer/Composite Materials
2. Energy/Superconducting Materials
3. Ceramics
4. Nanomaterials
5. Stress/Fatigue/Fracture Mechanics

MECHANICAL ENGINEERING

1. Thermofluids
2. Dynamics and Control
3. Materials
4. Nanotechnology
5. Biotechnology
6. Energy and Environment

PETROLEUM ENGINEERING

1. Reservoir Characterization and Engineering
2. Enhanced Oil Recovery: Chemical, Thermal, Miscible, Low Salinity, and Microbial Flooding
3. Production Operations
4. Fluid Flow in Porous Media
5. Modeling of Fluid Properties of Crude Oil and Natural Gas
6. Multiphase Flow in Wells
7. Reservoir Stimulation: Asphaltene, Sulfur, and Wax Precipitation Prevention and/or Treatment
8. Environmental Problems Associated with Oil and Gas Production

WATER RESOURCES

1. Fluid Mechanics and Hydraulics
2. Water Resources Management
3. Surface Water Hydrology
4. Ground Water
5. Desalination and Wastewater Treatment
6. Coastal Hydraulics

In addition, the college also manages three research centers:

- ▶ **Roadway, Transportation and Traffic Safety Research Center (RTTSRC)**, which conducts transportation projects with government and industry.
- ▶ **Building and Construction Research Center (BCRC)**, which provides consultation to municipalities, real estate developers, contractors and consulting companies, as well as expert testimony for court cases.
- ▶ **Emirates Energy and Environment Research Center (EEERC)**, which focuses on petroleum, upstream and downstream, renewable and alternative energy, energy efficiency and energy studies and policy.

Furthermore, the College of Engineering is involved in the National Water Center focusing on water quality, water technology and ecosystems.



CONSULTANCY & COMMUNITY SERVICES

The college faculty members act as consultants to government and industry including municipalities, real estate developers, and consulting companies. The outcomes of such consultations usually include producing reports for the sponsors. Some faculty also sit on several national boards and some are seconded to governmental organizations. They are also active in organizing activities for the community and students, such as:

I. CONFERENCES AND SYMPOSIAS

- ▶ International Conference on Renewable Energy: Generation and Applications
- ▶ International Conference on Nanotechnology
- ▶ The 20th Joint GCC-Japan Environment Symposium: Challenges for a Sustainable Environment in the Oil and Gas Industry

2. STUDENT COMPETITIONS

- ▶ Future UAE Energy and Environment Leaders (FUE²L) Competition
- ▶ Engineering Students' Renewable Energy Competition
- ▶ GCC Engineering Students' Design Competition

"The different courses I studied helped me to develop my critical thinking and opened my eyes to new dimensions that I could not see before."

Boshra Al Dhanhani,
Electrical Engineering, 5th Year

WHY CHOOSE UAEU?

- 1 EXCELLENCE**

At UAEU we focus on the quality of the learning experience for each student. UAEU's "excellence agenda" involves every aspect of the university. Here you will find the finest faculty in the nation, the most advanced technology in the region and the most modern and attractive campus facilities to be found anywhere. Our unrelenting focus on excellence ensures that your degree is highly regarded, both nationally and internationally, and that you will leave the university fully equipped for professional and personal success.
- 2 INTERNATIONAL RECOGNITION**

Based upon our international reputation, the employability of our graduates, and our research productivity, UAEU continues to rank among the best of the world's universities. QS, a London-based international ranking of the world's leading universities, rates UAEU in the top 500. QS also includes UAEU on its list of the top 50 world universities that have been founded within the past 50 years.
- 3 EMPLOYABILITY OF OUR GRADUATES**

Since our programs have been designed in partnership with employers, our graduates are highly sought after by both private and government entities. Our academic programs include not just classroom theory, but also practical internships and research experiences. Our graduates consistently find that their hands-on experience provides them both with the practical skills that employers value and with the connections and relationships that are an important part of the career-building process.
- 4 A SUPPORTIVE LEARNING ENVIRONMENT**

UAEU is committed to providing the support to ensure that every student can be successful. Our support services include counseling, healthcare, IT support, disability support, career services, financial aid, international student services, alumni services, a student success center and a student council. Regardless of the obstacles that you encounter along the way, there is always a mentor, a counselor, or an advisor nearby to help. Each student is provided with an individual academic advisor to assist with the critical decisions and choices that you face along the road to academic and career success.

- 5 A VIBRANT LIVING ENVIRONMENT**

Our goal is not only to give students an excellent degree qualification but also to ensure that you have fun along the way. Our students come from 64 countries, so you will interact with and learn from people of diverse cultural backgrounds. The university offers a wealth of extra-curricular activities and life-enhancing experiences to enrich your university experience, and with almost 50 Clubs and Societies at UAEU, there is no shortage of opportunities to have fun outside of lectures and to make friends. UAEU's campus is a real community with multiple cafés and restaurants, retail and banking facilities, bright, modern campus residences, and exceptional athletic and recreational facilities.
- 6 A MAGNIFICENT NEW CAMPUS**

The new UAEU campus features the most modern architecture, zones for specialized research centers, cutting edge IT network infrastructure, classrooms and labs that feature the latest equipment and instructional technology to enhance student learning. There is also an expansive library offering vast physical and electronic resources, two world class health clubs equipped with latest fitness equipment, two Olympic sized swimming pools, as well as tennis, basketball, and badminton courts.
- 7 CUTTING-EDGE RESEARCH**

The UAEU is the nation's premier research university. We not only transmit knowledge to our students, but through our colleges and research centers we help to create new knowledge, work on developing new treatments for cancer, produce new technology for addressing the world's energy needs and develop new techniques for increasing the global food supply. Each year our historians and archaeologists help to discover and assess historical artifacts concerning the accomplishments and culture of the people from this part of the world. As a UAEU student, you will have the opportunity to work side by side with internationally known research faculty on these exciting projects.
- 8 COMMUNITY OUTREACH**

As the UAE's national university, UAEU recognizes the responsibility of the university and our graduates to contribute to the wellbeing of the broader community. We encourage our students and staff to give back to the community through civic engagement, public service, and research. The university helps students connect with volunteer and community service organizations in the student's particular area of interest.
- 9 CHOICE**

No university in the nation provides as many academic choices as UAEU. The university offers 52 Bachelor's degree programs, 31 Master's programs, a Doctor of Medicine (MD), a Doctor of Pharmacy (Pharm.D), a Ph.D program, and a Doctor of Business Administration (DBA) across a broad range of disciplines, including business, economics, education, engineering, food and agriculture, humanities, the social sciences, IT, law, medicine and health sciences, and the natural sciences. Many of our degree programs are unique to UAEU, and many of them are offered in unique combinations. Whatever your interests, talents, and goals, UAEU has a program to match.

CONTACT US

COLLEGE OF ENGINEERING

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