

Chemical Engineering

Because tomorrow matters



Are you interested in developing and improving systems and technologies that produce materials used in everyday life or the most novel innovations? Chemical engineers are involved in many stages of a product's creation. In studying chemical engineering at AUS, you will come to understand the science behind the production of everything from fuel and fertilizers to polymers and pharmaceuticals. You will become well versed in areas such as process safety, clean energy, desalination, drug delivery, sustainability, data sciences, process modeling and control using AI and computer aided process design.

Why Chemical Engineering at AUS?

From outstanding faculty to world-class facilities, here is a snapshot of why students chose to study chemical engineering with us.

Renowned faculty. Our faculty come from some of the world's best chemical engineering schools including University of Michigan-Ann Arbor (USA), University of Ottawa (Canada), Colorado School of Mines (USA), Oklahoma State University (USA), Brigham Young University (USA), Auburn University (USA), Herriot-Watt University (UK), Queen's University Belfast (UK), University of Western Ontario (Canada), New Jersey Institute of Technology (USA) and Indian Institute of Technology (India).

State-of-the-art facilities. Our students sharpen their new-found skills and knowledge in our diverse range of labs, including:

Analytical Instrumentation Laboratory
Chemical Reaction Engineering Laboratory
Corrosion Laboratory
Drug Delivery Laboratory
Energy Systems Laboratory
Environmental Research Laboratory
Fluid Mechanics Laboratory
Heat Transfer Laboratory

Instrumentation & Control Laboratory
Material Science Laboratory
Petroleum Refining Laboratory
Thermochemical Conversion Laboratory
Thermodynamics Laboratory
Unit Operations Laboratory
Water Technology Laboratory

Accredited programs. Our programs are accredited in the UAE and USA.

- AUS is licensed and its programs are accredited by the Commission for Academic Accreditation of the UAE Ministry of Education's Higher Education Affairs Division.
- AUS is accredited in the USA by the Middle States Commission on Higher Education.
- The Bachelor of Science in Chemical Engineering program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and the Program Criteria for Chemical, Biochemical, Biomolecular and Similarly Named Engineering Programs.

Broad curriculum. Students can choose from a wide and diverse selection of electives including:

Air Pollution
Biomedical Engineering
Biochemical Engineering
Carbon Capture
Corrosion
Experimental Design

Fuel Cells
Hazardous Waste Management
Natural Gas
Petroleum Refining Engineering
Waste Management
Water and Wastewater Engineering

Variety of scholarships and grants. Eligible students have access to a wide range of scholarships and other financial support, with approximately two-thirds of all AUS students benefitting.

Opportunities beyond the classroom. Our students enjoy an active and diverse extracurricular experience, with more than 80 interest-oriented clubs and 26 sports teams. They can join the American Institute of Chemical Engineers, Society of Petroleum Engineers and Chemical Engineering Honor Society. Many engineering students have broadened their experience by studying abroad at

well-known universities in the USA and around the world. In addition, the Department of Chemical Engineering organizes educational trips for students to universities and organizations abroad.

Our students also challenge themselves by taking part in competitions such as the UAE Undergraduate Student Research Awards, Abu Dhabi University Students' Competition, SIB Student Research Awards, Middle East Electricity Award, Sharjah Sustainability Award and AIChE Student Chapter Award.

A top choice among employers. Many opportunities await our students upon graduation. Our graduates are employed by organizations including ADNOC, Crescent Petroleum, Bee'ah Group, DEWA, EGA, Petrofac, SNOC, Unilever, Nestlé, WorleyParsons and many others.

Preparation for top graduate programs. Our alumni pursue master's and PhD programs at illustrious universities across the world, including University of Glasgow (UK), McGill University (Canada), Syracuse University (USA), MIT (USA), Stanford University (USA), University of California (USA) and the University of British Columbia (Canada).

International recognition. AUS has an impressive list of rankings to its name:

- Among the **top 10 Arab universities** every year for the past eight consecutive years (QS Arab Region University Rankings 2023)
- Among the **top 50 universities** in the world under the age of 50 years (QS World University Rankings 2021)
- Among the **top three universities in the UAE and top 400 globally** for chemical engineering (QS World University Subject Rankings 2023)
- Graduates who have studied chemical engineering at AUS are the **top choice for employers in the UAE** (QS World University Subject Rankings 2023)
- Among the **top four universities in the UAE** and among the **top 600 globally** for engineering studies (THE World University Subject Rankings 2023)
- Among the **top five universities globally** with the highest percentage of international students (THE World University Rankings 2023)



Contacts

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Learn more

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