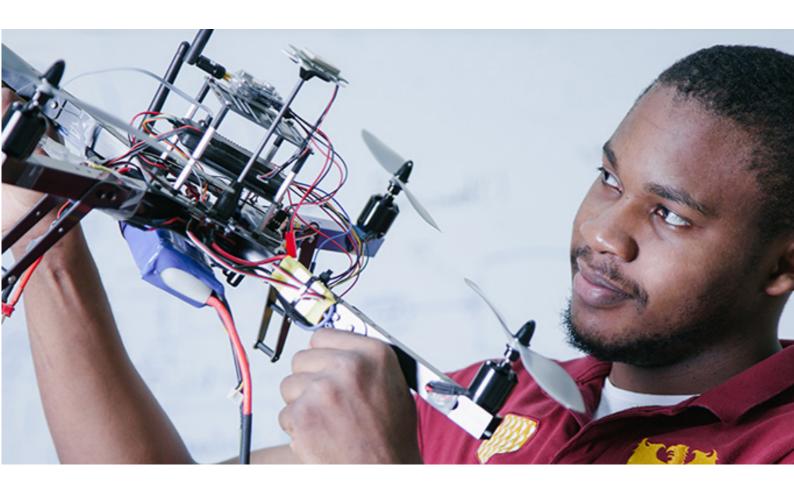


COLLEGE OF ENGINEERING

Mechanical Engineering

Because tomorrow matters



Mechanical engineers shape the future. At AUS, our **Bachelor of Science in Mechanical Engineering** equips you to lead innovation in today's rapidly evolving world. From advanced materials, smart manufacturing and robotics to renewable energy systems, autonomous vehicles and aerospace technologies, our program prepares you to design solutions that address global challenges. With a strong focus on sustainability, artificial intelligence applications and emerging technologies such as additive manufacturing and nanotechnology, you will be at the forefront of progress—driving discoveries that expand human potential and transform industries.

Why Mechanical Engineering at AUS?

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

Renowned faculty. Our faculty come from some of the world's best mechanical engineering schools including University of California, University of Toronto, University of Cincinnati, University of Illinois at Urbana Champaign, Illinois Institute of Technology, University of Kentucky, Virginia Tech, Texas A&M University, University of New Brunswick, University of Kentucky, University of Ontario Institute of Technology, University of Florida and Ryerson University.

Cutting-edge research. Our faculty members are active researchers in a variety of areas including robotics and automation, micro-electro mechanical systems (MEMS), fuel cells, microfluidics and lab on a chip, renewable and sustainable energy, machining, additive manufacturing and sustainable manufacturing, and nondestructive evaluation.

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

Aerospace Laboratory	Mechatronics Lab
Computer-Aided Design Lab	Nondestructive E
Drone Design and Manufacturing Academy	Product Visualiza
Dynamics and Control Systems Laboratory	Refrigeration and
Dynamics System Lab	Laboratory
Manufacturing Laboratory	Renewable Energ
Materials Laboratory	Wind Tunnel Lab
Measurements and Instrumentation	
Laboratory	

Mechatronics Laboratory

Nondestructive Evaluation Laboratory

Product Visualization Lab

Refrigeration and Air Conditioning
Laboratory

Renewable Energy Lab

Wind Tunnel Lab

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 and Scientific Research.
- AUS is accredited in the USA by the Middle States Commission on Higher Education.
- The mechanical engineering (BS) program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org, under the General Criteria and the Program Criteria for Mechanical and Similarly Named Engineering Programs.

Broad curriculum. Our students can choose from a wide and diverse selection of electives, including:

Aerospace Propulsion	Inspection and Nondestructive Testing
Aircraft Stability and Control	Intermediate Fluid Mechanics
Applied Aerodynamics	Internal Combustion Engines
Applied Finite Element Analysis	Introduction to Computational Fluid
Autonomous Robotic Systems	Dynamics
Composite Materials	Introduction to Mechatronics
Energy Conservation and Management	Introduction to Robotics
Energy Systems	Kinematic and Dynamics of Machinery
Fluid Power Control	Mechanical Vibrations
Fuel Cells and Hydrogen Systems	Refrigeration and Air Conditioning
Fundamentals of Fire Protection	Renewable Energy Systems
Engineering	Turbomachines
Hydraulics of Pipeline Systems	

Variety of scholarships and grants. Eligible students have access to a wide range of scholarships and other financial support.

Opportunities beyond the classroom. Our students enjoy an active and diverse extracurricular experience, with more than 80 interest-oriented clubs and 26 sports teams on campus. Our students also have the opportunity to challenge themselves by taking part in a number of competitions, including Skill Up Compete, ASME Additive Manufacturing 3D Printing Competition and the James Dyson Award.

A top choice among employers. Many opportunities await our students upon graduation. Our graduates are employed by organizations including Abu Dhabi National Oil Company, Baker Hughes, Dubai Electricity & Water Authority, Emirates Global Aluminum, General Electric, Johnson Controls, National Petroleum Construction Company, Petrofac International, Proctor & Gamble, Sharjah Electricity & Water Authority, Siemens and Unilever.

Preparation for top graduate programs. Our alumni pursue master's and PhD programs at illustrious universities across the world, including Georgia Institute of Technology, McGill University, Ohio State University, University of Manchester, University of British Colombia, University of California–San Diego, University of Cambridge, University of Illinois at Urbana-Champaign, University of Oxford, University of Toronto, University of Waterloo and Virginia Tech.

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

- Among the top 18 percent of ranked universities in the world (QS World University Rankings 2026)
- Among the top 10 Arab universities every year for the past 10 consecutive years (QS Arab Region University Rankings 2025)
- Ranked third in the UAE and top 300 universities globally in the category of mechanical, aeronautical and manufacturing engineering (QS World University Subject Rankings 2025)
- Graduates who have studied mechanical, aeronautical and manufacturing engineering at AUS
 are the top choice for employers in the UAE (QS World University Subject Rankings 2025)
- Among the top five universities in the UAE and among the top 600 globally for engineering studies (THE World University Subject Rankings 2024)
- Among the top five universities globally with the highest percentage of international students (THE World University Rankings 2024)

Contact

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Learn more

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