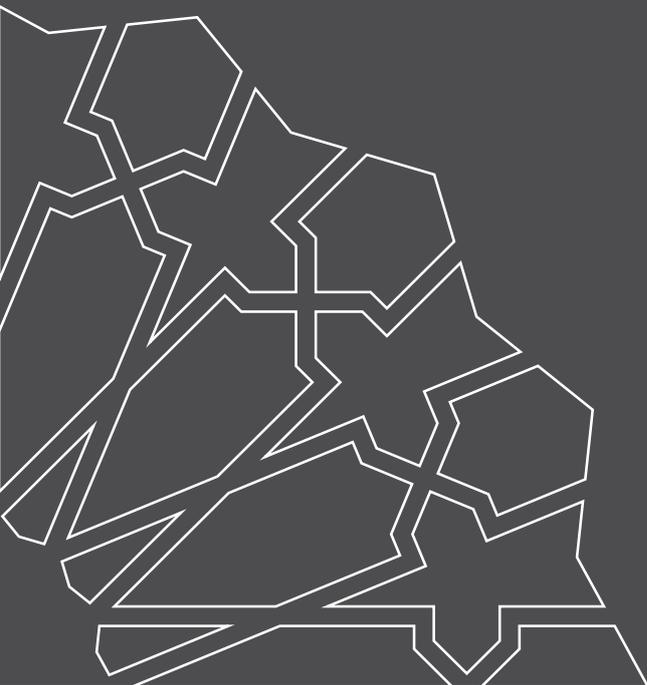




كلية الهندسة
COLLEGE OF ENGINEERING

Chemical and Water Desalination
Engineering

**Shaping Tomorrow's
Leaders in the field
of Chemical and
Water Desalination
Engineering.**





Explore the Future with a B.Sc. in Chemical and Water Desalination Engineering

Subtitle:

Shaping Tomorrow's Leaders in the field of chemical and desalination engineering.

Key Features:

- Pioneering bachelor program in the world in the field of chemical and water desalination engineering
- Four-year program with a broad scientific and technical background in chemical engineering with specialization in water desalination.
- Advanced courses in chemical and water desalination engineering.
- Specialized topics include instrumentation analysis, membrane technology and separation process, thermal system design and more.
- Practical training and laboratory course as well as senior design projects for hands-on experience.
- Emphasis on creating competent, confident, and responsible individuals.

Program Highlights:

- **Cutting-edge program:**
- The first and unique program of its kind in the world that integrates water desalination into the chemical engineering curriculum.
 - **State-of-the-art labs:**
 - Water Chemistry and Analysis Lab, Fluid mechanics Lab, Heat and Mass Transfer Lab, Membrane and polymer Engineering Lab, water desalination lab
 - **Expert faculty:**
- Learn from experienced professors dedicated to your success.

Admission Information:

Eager to start your journey in Chemical and Water Desalination Engineering? Explore the University of Sharjah website for details on admissions and how to apply.

Testimonials

Aysha Al Shamsi



"Participating in the Engie Youth Development Program at United Nations Conference of Parties (COP28) was an enlightening and transformative experience for me. Representing the University of Sharjah at the COP28 Expo Live University Innovation Program was a significant experience. I contributed to an innovation project on brine recovery driven by solar energy, which was selected to be among the winning entries. Connecting with like-minded individuals and presenting my ideas to a global audience was both insightful and rewarding. I have also completed a voluntary internship at Ajman Municipality and another internship at ADNOC Borouge".



Sara Al-Fahad



"Participating in the COP28 Expo Live University Innovation Program was a significant milestone for me. My team worked on a project centered on brine recovery powered by solar energy. Our project was recognized among the winning entries. It was a wonderful opportunity to challenge myself by working on an innovative idea based on the knowledge that I have gained as a student in the Chemical and Water Desalination Engineering program. I have also been accepted by the renewable energy company, Masdar, for practical training".



Lulwa Alkhashram



Mohamed Ismail



هيئة كهرباء ومياه عجمان
Sharjah Electricity & Water Authority

"Witnessing firsthand how seawater is transformed into potable water using advanced membrane technology at the Hamriyah Desalination Plant was truly enlightening. Combined with the fundamentals learnt in the membrane courses at the Chemical and Water Desalination Engineering program, I gained insights on large-scale water production during the field trip to the Hamriyah Desalination Plant owned by Sharjah Electricity & Water Authority.



Experiences and Opportunities

Hands-On Learning:

- Internships: On-the-job training where students apply their classroom knowledge in industrial settings.
- Software Proficiency: Practical training sessions where students gain hands-on experience with industry-relevant software tools, including SimaPro, MATLAB, and Aspen HYSYS.
- Industrial Site Visits: Guided tours to key industrial facilities such as desalination plants, wastewater treatment plants, petrochemical complexes, and chemical, food and waste processing industries.

Career Opportunities:

- Oil and gas industry
- Fertilizer and cement industry
- Pharmaceuticals and food processing industry
- Cement and Mining Industry
- Desalination and wastewater treatment plants
- Governmental departments
- Research institutions
- Environmental organizations
- Chemical processing plants



Student Life and Organizations:

- American Institute of Chemical Engineers (AIChE) Student Chapter
- Chemical and Water Engineering Students in MNEC Club

Financial Support:

- Investing in Your Future: Discover scholarships, and financial aid options to make your engineering education accessible. Visit the university website for details.

Closing:

- Discover how CWDE at the University of Sharjah can empower your engineering journey. Join the in-demand field.

