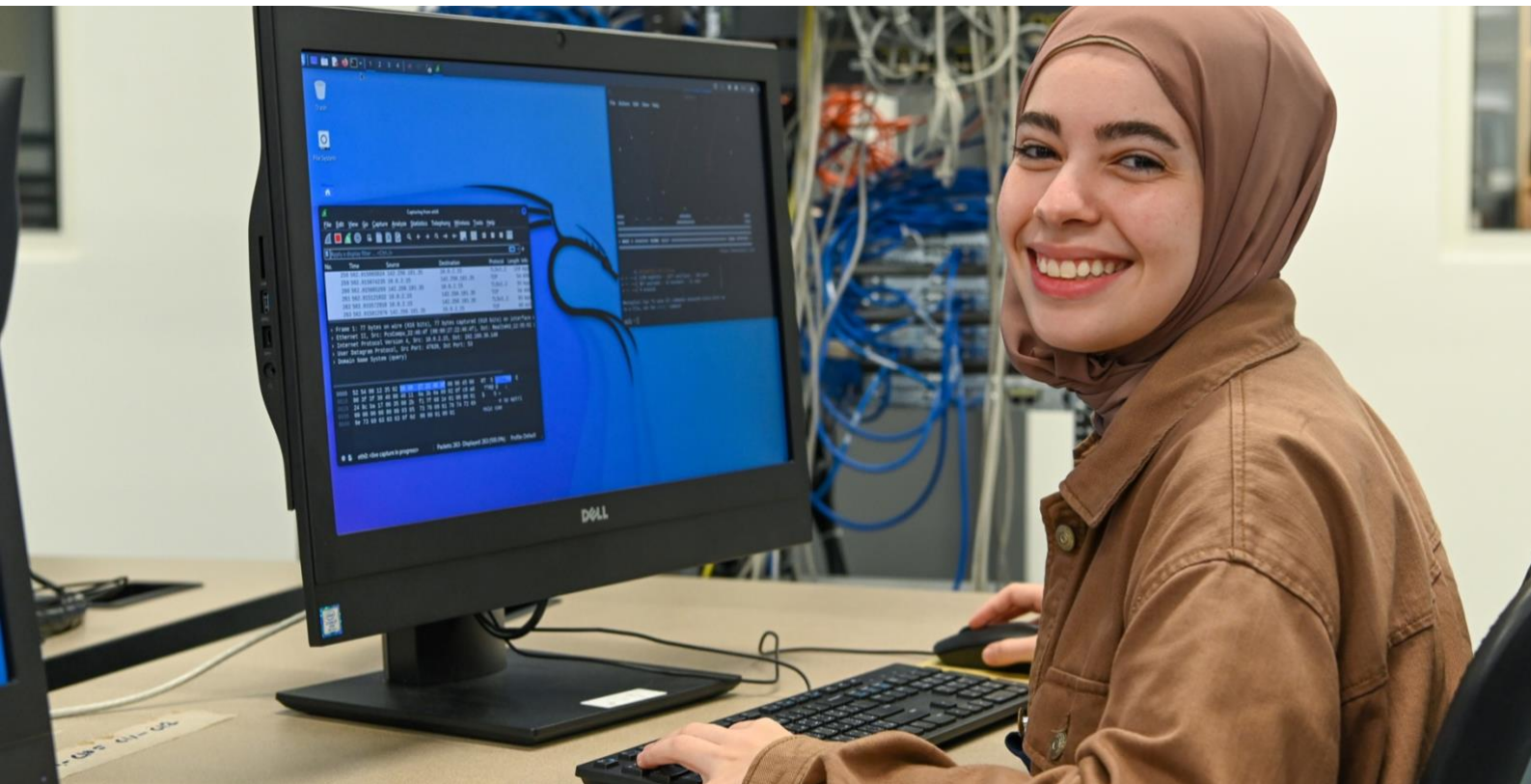


Computer Science and Computer Engineering

Because tomorrow matters



Computer science and computer engineering are rapidly advancing fields that solve important problems and offer growing employment opportunities. Whether your interests are in creating solutions through software or problem-solving with hardware or networks, AUS can help you achieve your ambitions. If you wish to learn artificial intelligence, machine learning, deep learning, data science, virtual reality, cloud computing, cyberphysical systems, cyber security, Internet of Things and mobile app development, then find out how the AUS **Bachelor of Science in Computer Science and Bachelor of Science in Computer Engineering** programs prepare students to meet the challenges of the future.

Why Computer Science and Computer Engineering at AUS?

Are you ready to enter the exciting world of computer science or computer engineering? Here are some reasons students chose to pursue their ambitions at AUS.

Renowned faculty. Our widely published faculty come from some of the world's best computer science and computer engineering schools Duke University, The University of Texas at Dallas, University of Arizona, University of Dallas, University of Michigan, University of Minnesota, Vanderbilt University, Virginia Commonwealth University, McGill University, University of Ottawa, Western University, National Polytechnic Institute of Grenoble, National Technical University of Athens, and University of Essex.

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

Advanced Programming Lab

Artificial Intelligence Lab

Computer Networks Lab

CSE Programming Lab

Cyber Security Lab

Digital Systems Lab

Embedded Systems and Industrial

Computer Applications Lab

Health and IoT Lab

High Performance Computers Lab

Internet and Mobile Computing Lab

Microcontrollers Lab

Senior Design Lab

Software Engineering Lab

Software Design Lab

Virtual and Augmented Reality Lab

Advanced Digital Systems Lab

VLSI 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's Higher Education Affairs Division.
- AUS is accredited in the USA by the Middle States Commission on Higher Education.
- The computer engineering (BS) program is accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and Program Criteria for Electrical, Computer, Communications, Telecommunication(s) and Similarly Named Engineering Programs.
- The computer science (BS) program is accredited by the Computing Accreditation Commission of ABET, <https://www.abet.org>, under the General Criteria and Program Criteria for Computer Science and Similarly Named Computing Programs.

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. Our students enjoy being active in the Computer Engineering Club, UPE Honor Society, Open Source Club, Google Developer Student Club, Game Development Club, IEEE Computer Society, IEEE Special Interest Group on Humanitarian Technology, TechShip Club and The Ada Club. Many engineering students have broadened their experience by studying abroad at well-known universities in the USA and around the world.

In addition, our students challenge themselves by taking part in competitions such as the Emirates Mars Mission's Planet X Challenge, IEEEExtreme 24hour Global Programming Contest, University

Blockchain Challenge and many others. We also offer students programs to help them gain professional certifications including CISCO, HP, Redhat, SAP/HANA, AWS, Dell Technologies Envision the Future Annual Graduation Project Competition, Annual NYUAD International Hackathon and ITU Geo AI Challenge.

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

Artificial Intelligence
Cloud Computing
Computer Architecture and Organization
Computer Graphics
Computer Networks II
Computer Security
Human Computer Interaction
Industrial Cyber Physical Systems
Intelligent Autonomous Robotics
Internet and Internet of Things (IoT) Programming
Internet and Network Computing
Introduction to Biomedical Imaging
Machine Learning and Data Mining
Mobile Application Development

Modern Computer Organizations
Multi-Agent Systems
Multicore Computing
Neural Networks and Deep Learning
Object-Oriented Software Engineering
Real-time Industrial Networks
Software Testing and Quality Engineering
Telecommunications Networks Engineering
Virtual and Augmented Reality
VLSI Design
Wireless and Mobile Networks

A top choice among employers. Many opportunities await our students upon graduation. Our graduates are employed by organizations including:

Abu Dhabi Investment Authority
Accenture
Amazon
Bedu
Bee'ah
Bosch
Cisco Systems
Crown Prince Court
DELL EMC
Deloitte & Touche
Du/Emirates Integrated
Dubai Electricity & Water Authority (DEWA)
Dubai Financial Market
Dubai International Airport
Dubai World
Dubai World Trade Center
Emirates Airlines
Ernst and Young
Etihad Airways
Etisalat
Expo 2020
General Electric
Global Aerospace Logistics LLC

GoogleHewlett-Packard Enterprises
IBM Middle East
Jumeirah Group
Mastercard
Meta
Microsoft
Ministry of Foreign Affairs
Mohammed Bin Rashid Space Centre
Nokia Siemens Networks
Noon
Office of His Highness the Ruler of Sharjah
Oracle
Petrofac International Ltd.
Prime Minister's Office
Samsung Electronics
Schlumberger
Sharjah National Oil Corporation
Shell
Siemens
Sony Gulf
Standard Chartered Bank
Xerox

- **Preparation for top graduate programs.** Our alumni pursue master's and PhD programs at illustrious universities across the world, including Boston University, Brunel University London, Carleton University, Concordia University, Hult International Business School, Iowa State University, King Abdullah University of Science and Technology, University of British Columbia, University College London, University of Edinburgh, University of Illinois Urbana-Champaign, University of Michigan, University of North Carolina at Charlotte, University of Ottawa, University of Oxford, University of Toronto and Western University.

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 four in the UAE and top 450 universities globally** for computer science and information systems (QS World University Subject Rankings 2023)
- Graduates who have studied computer science and information systems 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)



Contact us

Department Head

Dr. Imran Zualkernan, Tel +971 6 515 2953, izualkernan@aus.edu

CSE Academic Advisor

Dr. Hicham Hallal, Tel +971 6 515 2908, hhallal@aus.edu

Administrative Assistant

Desiree Juan, Tel +971 6 515 2969, +971 6 515 2969, dcjuan@aus.edu

Learn more

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