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, IEEExtreme 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)

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