



The American
University in Cairo

School of Business

MANAGEMENT OF INFORMATION AND COMMUNICATION TECHNOLOGY (MICT) UNDERGRADUATE STUDIES



2020 - 2021



WHY MICT?

Modern communication technology is rapidly transforming and developing, leaving individuals and corporations with no choice but to adapt and acquire the essential skills to remain competitive in today's digitized era. As businesses increasingly realize the importance of new technologies, the need for information and communication experts is at its peak. The study of Management of Information and Communication Technology (MICT) is designed to adapt its content to a local context, congruent with the needs of Egyptian organizations and capable of addressing IT challenges that arise in day-to-day operations while mastering real-world ICT issues.

A UNIQUE LEARNING EXPERIENCE

The MICT curriculum provides students with a foundation in the liberal arts and sciences while enabling them to develop expertise in business management and information technology. This program is a joint degree between the AUC School of Business (BUS) and the School of Sciences and Engineering (SSE). The program provides its students with the technical and theoretical efficiency highly sought-after by businesses to balance business needs and technological solutions simultaneously.

CAREERS

Students who select a major in MICT are able to function as user advocates. MICT students select, create, apply, integrate and administer computing technologies to meet users' needs within a societal and organizational context. Equipped with this knowledge, graduates will be able to analyze, design and manage information and communication technology infrastructures. Accordingly, they have the necessary edge to place them in front-line positions in the ICT industry.

These skills will boost student career prospects in various fields including, but not limited to, data analysis, business analysis, system administration, mobile system development, software engineering, project management, web development, ICT security, data science engineering, solution sales, technical consultancy and more.

REQUIREMENTS

All MICT declaration-of-major applicants must have completed no fewer than 27 credit hours of study, including the three courses listed below (with an average of B+ or more):

- ACCT 2001
- CSCE 1001
- MACT 2222

Admission into the major is competitive. Eligible students will be ranked and selected based on the cumulative GPA requirement (weight of 75%) as well as the average GPA in the three courses required (weight of 25%).

Overall GPA of 100% = cumulative GPA (75%) + average GPA in ACCT 2001, CSCE 1001 and MACT 2222* (25%)

*Students who seek the MICT degree are not permitted to have a minor in entrepreneurship.
accounting.

- Marketing: Students learn about the activities involved in the process of buying, selling, pricing, transporting and advertising, as well as the different ways of segmenting, studying and appealing to final consumers including individuals, business organizations and nonprofit entities.





Bachelor of Business Administration in Management of Information and Communication Technology (127 credits)

*With no more than 63 hours of courses in the business area

Core Curriculum (37 credit hours)

Collateral Requirements (15 credits)

- ACCT 201/2001 - Financial Accounting (3 cr.)
- ACCT 202/2002 - Managerial Accounting (3 cr.)
- ECON 202/2011 - Introduction to Microeconomics (3 cr.)
- ECON 201/2021 - Introduction to Macroeconomics (3 cr.)
- MACT 210/2222 - Statistics for Business (3 cr.)

Business Core Requirements (33 credits)

- BADM 203/2001 - Introduction to Business (3 cr.)
- BADM 300/3003 - Business Environment and Ethics (3 cr.)
- ENTR 413/4102 - Entrepreneurship and Innovation (3 cr.)
- FINC 303/2101 - Business Finance I (3 cr.)
- MGMT 311/3301 - Business Law (Commercial & Fiscal) (3 cr.)
- MKTG 302/2101 - Principles of Marketing (3 cr.)
- MKTG 405/3201 - Marketing Research (3 cr.)
- MOIS 305/2101 - Introduction to Information Systems/Technology (3 cr.)
- MOIS 406/3201 - Management Information Systems and Database Management (3 cr.)
- OPMG 310/3201 - Operations for Competitive Advantage (3 cr.)
- OPMG 401/4301 - Supply Chain Management (3 cr.)

MOIS Concentration Requirements (15 credits)

- MOIS 435/3301 - Entrepreneurial IT and Electronic Business (3 cr.)
- MOIS 430/4202 - Business Information Systems Analysis and Development (3 cr.)
- MOIS 499/4999 - Internship and Graduation Project (3 cr.)*

*MOIS 499/4999 is the capstone course for this major.

One course to be selected from the MOIS area:

- MOIS 432/3601 - Decision Support Systems and Business Intelligence (3 cr.)
- MOIS 477/4704 - Big Data and Predictive Analysis (3 cr.)

One course to be selected from the MOIS area:

- MOIS 466/3401 – Human-Computer Interaction (HCI) (3 cr.)
- MOIS 423/3501 - Geographic Information Systems (GIS) (3 cr.)
- MOIS 433/3701 - Marketing Information Systems (3 cr.)
- MOIS 434/3702 - Financial Information Systems (3 cr.)
- MOIS 444/3703 - Accounting Information Systems (3 cr.)
- MOIS 450/3801 - Strategic Information Systems (3 cr.)
- MOIS 470/4970 - Special Topics in Management of Information Systems (3 cr.)

Computer Science Requirements (22 credits)

- CSCE 106/1001 - Fundamentals of Computing I (3 cr.)
- CSCE 110/1101 - Fundamentals of Computing II (3 cr.)
- CSCE 000/1102 - Fundamentals of Computing II Lab (1 cr.)
- CSCE 342/3421 - Fundamentals of Computing and Communication Systems (3 cr.)
- CSCE 346/3422 - Introduction to Information Security (3 cr.)

Three courses to be selected from the CSCE area:

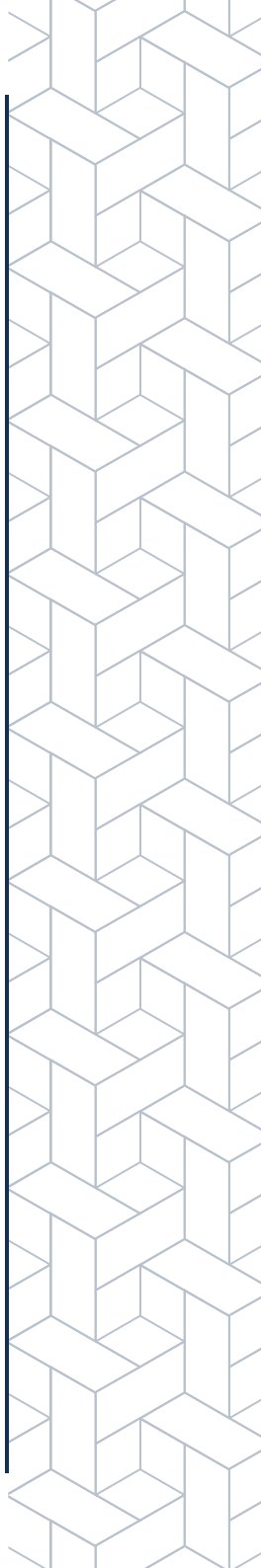
- CSCE 315/3101 - Programming Language (1-3 cr.)
- CSCE 316/3102 - Programming in Java (3 cr.)
- CSCE 325/3104 - Concepts of Programming Languages (3 cr.)
- CSCE 341/3701 - Software Engineering (3 cr.)
- CSCE 453/4501 - Database Systems (3 cr.)
- CSCE 456/4502 - Design of Web-Based Systems (3 cr.)
- CSCE 485/4930 - Selected Topics in Computer Science and Engineering (1-3 cr.)

General Electives (6 credits)

- CSCE 106/1001 - Fundamentals of Computing I (3 cr.)
- CSCE 110/1101 - Fundamentals of Computing II (3 cr.)
- CSCE 000/1102 - Fundamentals of Computing II Lab (1 cr.)
- CSCE 342/3421 - Fundamentals of Computing and Communication Systems (3 cr.)
- CSCE 346/3422 - Introduction to Information Security (3 cr.)

CO-OP (3 credits)

Students majoring within the School of Business who meet other relevant criteria are eligible to apply for the optional BUSC 000/4000 - Experiential Learning: CO-OP (3 cr.) as part of their general electives. Selection is highly competitive, subject to limited capacity and based on criteria set by the School of Business. Students enrolled in BUSC 4000 are not permitted to concurrently enroll in any other course.



STATISTICS

11,982



Alumni of AUC School of Business
Undergraduate and Graduate Programs
*total number excluding double counts

Alumni of AUC School of Business
Undergraduate Programs

10,225

accounting **1,042** business administration **4,459**

management of information and communication technology **88** economics **4,636**

Alumni of AUC School of Business
Graduate Programs

2,566

MA in economics **468** MSc in management **369**
*discontinued

MSc in finance **53** MA in economics in international development **177**
EMBA **62** MBA **1,437**

401

Alumni Employed in
Fortune 500 Companies



*Data as of census date November 2020



AUC School of Business is one of only 70 business schools worldwide, out of nearly 14,000, as well as the first in the Middle East and third in Africa, to achieve triple-crown accreditation from the European Quality Improvement System (EQUIS), the Association of MBAs (AMBA) and the Association to Advance Collegiate Schools of Business (AACSB).



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