**Curtin University**

Dubai

BACHELOR OF SCIENCE

# COMPUTING (INFORMATION TECHNOLOGY)

Computer scientists, software engineers, programmers and other computing professionals are experts on how technology works and how computing can address even the most complicated and intricate problems.

This course will provide you with the skills and knowledge you need for a successful career in the rapidly evolving information and communications technology industry. In your first year, you will develop your programming skills and study the fundamental theoretical knowledge of computing. Topics covered will include C++, Java, Linux and object oriented programming.

From your second year, you will specialise in the Information Technology stream. In this stream you will learn the technological and applied aspects of computing, with less emphasis on theory.

You will study system programming, software design and engineering, networking (including the internet and the web), artificial intelligence for decision support and graphics.

## PROFESSIONAL RECOGNITION AND MEMBERSHIPS

Graduates are eligible for membership in the following professional bodies:

- Australian Computer Society (Professional level accreditation)

**ACS** AUSTRALIAN COMPUTER SOCIETY

## ABOUT CURTIN UNIVERSITY

Curtin University is an innovative, global university, with campuses in Australia, Dubai, Singapore, Malaysia and Mauritius. We are known for our high-impact research, strong industry partnerships and commitment to preparing students for the jobs of the future.

Curtin is ranked in the top one per cent of universities worldwide in the Academic Ranking of World Universities 2018. We are also ranked 20th in the world for universities under 50 years of age in the QS World University Rankings 2019.

**QS World University Rankings by subject 2019:**

- Top 350 – Computer Science and Information Systems

## A TRULY GLOBAL EXPERIENCE

You have the opportunity to pursue any one teaching period at our campus in Perth with no increase in tuition. You can also pursue the 2-week On Country Program in Perth, equivalent to a 25-credit point unit.

Make tomorrow better.

www.curtindubai.ac.ae

## COURSE ESSENTIALS

| BACHELOR OF SCIENCE (COMPUTING) – INFORMATION TECHNOLOGY | |
|---|---|
| Course prerequisites | Mathematics is essential and calculus is desirable |
| Indicative cut-off scores | GCE A-Levels: 5 points (best of 3 subjects)  \|  IB: 24 points  \|  India: CBSE/ICSE - 60%  HSC - 65% |
| English language requirements | IELTS overall band score of 6.0 with a minimum of 6.0 in each band |
| Duration | 3 years full-time |
| Intake | January and September |
| Total tuition* | AED 170,100 or USD 46,603 |

*All fees indicated are inclusive of 5% UAE VAT.*

## COURSE STRUCTURE

| YEAR 1 TEACHING PERIOD 1 | YEAR 1 TEACHING PERIOD 2 |
|---|---|
| Introduction to Software Engineering | Unix and C Programming |
| Science Communications | Data Structures and Algorithms |
| Statistical Data Analysis | Database Systems |
| Linear Algebra 1 | Foundations of Computer Science |
| Object Oriented Program Design | |

| YEAR 2 TEACHING PERIOD 1 | YEAR 2 TEACHING PERIOD 2 |
|---|---|
| Operating Systems | Computing Topics IT |
| Computer Communications | Computer Graphics IT |
| Unix Systems Programming | Fundamental Concepts of Cryptography |
| Object Oriented Software Engineering | Fundamental Concepts of Data Security |

| YEAR 3 TEACHING PERIOD 1 | YEAR 3 TEACHING PERIOD 2 |
|---|---|
| Human Computer Interface | Capstone Computing Project 2 |
| Capstone Computing Project 1 | Advanced Computer Communications |
| Fundamental Concepts of Data Security | Network Systems Design |
| Distributed Computing | Cyber Crime and Security Enhanced Programming |

* These are example progressions. Order of units depends on intake period.

## Career Opportunities:

**This course can help you become a/an**

- IT analyst
- Programmer
- IT support technician
- Project manager
- QA/QC manager
- Algorithm designer
- Software developer
- Cyber security analyst
- Web applications developer
- Software engineer

## CONTACT US:

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DUBAI INTERNATIONAL ACADEMIC CITY