



# Curtin University

## Dubai

BACHELOR OF SCIENCE

# CYBER SECURITY

The business world and governments run on computers yet these computers are subject to constant risk of cyber attack.

This course will prepare you for a career in the exciting field of Cyber Security. In recent years, cyber attacks have caused untold damage to businesses and governments and all projections indicate that this will be increasing for the foreseeable future. In this course you will learn Cyber Security from many aspects including securing hardware, networks, operating systems, and data. You will learn about data encryption, cyber forensics, and network intrusion detection by working on real life case studies ensuring that you are career ready when you graduate.

### 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 (ARWU) 2022. We are also ranked 193rd in the world for universities by the QS World University Rankings 2023.

### QS World University Rankings by subject 2022:

- Top 400 – 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](http://www.curtindubai.ac.ae)

## COURSE ESSENTIALS

### BACHELOR OF SCIENCE IN CYBER SECURITY

Course prerequisites	Mathematics is essential and calculus is desirable
Indicative cut-off scores	GCE A-Levels: 8 points (best of 3 subjects)   IB: 28 points   India: CBSE/ICSE - 70% HSC - 71%
English language requirements	IELTS overall band score of 6.0 with a minimum of 6.0 in each band
Course duration	600 Credits over 2 years (6 trimesters) or 3 years (9 trimesters)
Intake	January and September
Total tuition*	AED 170,100 or USD 46,603

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

## COURSE STRUCTURE\*\*

Introduction to Software Engineering	Operating Systems
Fundamental Concepts of Data Security	Computing Topics
Integrating Indigenous Science and STEM	Cyber Crime and Security Enhanced Programming
Programming Design and Implementation	Database Systems
Unix and C Programming	Machine Learning
Data Structures and Algorithms	Fundamental Concepts of Cryptography
Cyber Security Concepts	Capstone Computing Project 1
Linear Algebra and Statistics for Engineers	Penetration Testing and Defence
Data Communications and Network Management	Cyber Security Intrusion Detection System and Incident Handling
Mobile Cloud Computing	Capstone Computing Project 2
Unix Systems Programming	Electives

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

\*\*As core units may be offered in the May trimester, it is the student's responsibility to ensure they track their progression with Student Services.

## Career opportunities:

This course can help you become a/an

- IT security consultant
- Information security analyst
- Security systems administrator
- Forensic computer analyst

## CONTACT US:

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Published by Curtin University Dubai 2022.

CRICOS Provider Code 003011

