



## College of Technological Innovation

# MASTER OF SCIENCE IN INFORMATION TECHNOLOGY (CYBER SECURITY)

Building safe, secure computer systems and communication networks is crucial for all organizations

Organizations in industry and governments globally are susceptible to a wide range of cyber-attacks that are becoming increasingly more elaborated and malicious. Organizations are struggling to address the challenges of Cyber Security. The Master of Science in Information Technology (Cyber Security) program focuses on the development of concepts, knowledge and skills that will enable successful participants to become proficient in the areas of network/internet security, database security, digital forensics, ethical hacking, information security management and cyber criminal behavior.

### Professional Outcomes

Upon successful completion of the program, graduates can work as network security administrators, penetration testers, digital forensics analysts, data security analysts, cyber intelligence specialists, vulnerability assessors, security awareness training specialists or cloud security architects. Graduates can find employment at financial institutions, information security audit/consultancy firms and government organizations where national security needs are a priority.

### Faculty

Program courses are taught by select professors from Zayed University who have earned doctorates, diverse international research experience, and superior teaching performance in graduate level programs.

### Curriculum

Students have the option to choose between a thesis and a non-thesis study track. In both tracks, students complete a set of security courses. In the thesis study track, students also work on a research topic throughout two courses. Students choosing the thesis study track will gain essential research skills to support their academic careers. In the non-thesis study track, the two research courses are replaced with two courses focusing on the technical and management aspects of security. Students choosing the non-thesis study track will enrich their cyber security skills from the technical and management perspectives.

## Year One:

- SEC601 Research Methods
- SEC605 Information Security
- SEC610 Information Security, Policy, Ethics and Law
- SEC615 Cyber Forensics
- SEC515 Network and Internet Security

## Year Two (Common Courses)

- SEC638 Small Scale Digital Device Forensics
- SEC575 Cyber Criminal Behavior
- SEC620 Information Security Management

## Year Two (Non-Thesis Study Track)

- SEC640 Database and Enterprise Application Security
- SEC645 Penetration Testing and Advanced Hacking Techniques

## Year Two (Thesis Study Track)

- SEC699 Research Thesis (3 credit hours)
- SEC699 Research Thesis (3 credit hours)

## Course Delivery Format

The program is delivered in English at Zayed University located in Abu Dhabi and Dubai.

## Admission

- Admission is open to males and females of all nationalities.
- An earned baccalaureate degree in a discipline considered appropriate to the graduate program from an accredited university recognized by the UAE Ministry of Education with a cumulative grade point average (CGPA) of 3.0 (or 2.5 for conditional admission) or higher on a 4.0 point scale or equivalent.
- English language proficiency:
  - A TOEFL score of 213 CBT, 79 iBT (or 197 CBT, 71 iBT for conditional admission), or
  - An IELTS (Academic) overall band score of not less than 6.0 (or 5.5 for conditional admission), or
  - 1400 on the EmSAT English examination (or 1250 for conditional admission), or
  - Evidence that the applicant is a native speaker of English who has completed his/her undergraduate education in an English medium institution in a country where English is the official language.

## Program Cost

| Credit Hours | Cost Per Credit Hour |
|--------------|----------------------|
| 30           | AED 3,200            |

## Financial Support

Zayed University offers a range of financial support options such as graduate merit scholarships and Zayed University alumni scholarships to support graduate students. For a listing of these and all other available financial aids, please visit the Graduate Student Financial Support section of the website [www.zu.ac.ae](http://www.zu.ac.ae)

## Program Recognition

Zayed University is licensed and accredited by the Commission for Academic Accreditation (CAA), which is the quality assurance and accreditation body of the UAE Ministry of Education. As Zayed University is accredited by the Middle States Commission on Higher Education, graduate programs are world-wide recognized for further education and employment in private and public-sector organizations.

## Contact

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Accredited by Middle States Commission on Higher Education

