University College Dublin
Ireland's Global University

MSc Cybersecurity
2 years part-time
(Blended Learning or Online)

This programme is designed to prepare IT professionals for a managerial or technical career in cybersecurity. It will help companies, government and state institutions, defence forces and others to upskill their staff to fill new roles in cyber security so that they can protect their organisations, their customers and the public. It facilitates professional learners through flexible blended study options. Lectures are delivered online and complemented by occasional full-day workshops on campus, with a remote option for those who cannot attend in person. The combination of mainly distance but with some on-campus days allows flexible learning but with face-to-face interactions.

In developing the programme we have collaborated with industry and law enforcement practitioners to ensure that the programme meets the needs of professional learners.

Who should apply?

This holistic and well-rounded programme will be of interest to executives and professional / technical staff who:

- need to acquire knowledge and skills to equip themselves better for their current role
- want to gain a promotion
- want to open up new career opportunities for themselves in cyber security related roles
- are interested in doing some research in this field, perhaps in relation to a current work problem
- want to gain a qualification to add to their standing and credibility within their professional life.

Course Content and Structure

Assessment

90 credits taught Masters through either

75 credits taught modules plus a **15 credit** Case Study
or
60 credits taught modules plus a **30 credit** Professional
or
Research Project

Core Modules

- Information Security
- Leadership In Security
- Risk Assessment & Standards
- Privacy and Compliance
- Secure Software Engineering
- Applied Cryptography
- Network Security
- Incident Response

Option Modules

- Malware Analysis
- Security Research Trends
- Ethical Hacking
- Case Study
- Professional Project
- Research Project

Career Opportunities

The programme will prepare professionals for a rewarding career in cybersecurity; for example, to take a role as a security manager, security engineer, security analyst, or IT security specialist. Career development possibilities are excellent. Organizations of all sizes in all sectors, including both Irish and foreign owned companies, are looking for people with these skills. Many global companies have a base in Ireland, including security software and cyber security companies with a security operations centre (SOC). There is a growing cyber security market globally as cyber security is recognized as critical for national security and the smooth functioning of society.

Entry Requirements

Minimum of a 2.1 honours bachelor's degree in Computer Science (or a cognate discipline) or 2:2 honours bachelor's degree in Computer Science (or a cognate discipline) and equivalent (>5 years) industrial experience in software development or software/system security.

Each applicant will be assessed on a case-by-case basis. Students are also required to fulfil UCD's English Language Requirements

Why study this programme?

- Flexible part-time study over 2 years
- Blended distance learning with face-to-face interaction
- Outstanding career opportunities in cybersecurity
- Expert teaching team: experienced lecturers from UCD and cybersecurity experts in law enforcement and industry
- Each module has a dedicated Module Coordinator and teaching assistants to support students
- UCD has 16 years of experience in delivering Masters level education in this field

- Research option: the possibility of undertaking a significant piece of research
- Curriculum aligned with the ACM/IEEE/AIS SIGSEC/ IFIP Cybersecurity Curricular Guidelines preparing students to take a variety of cyber security roles
- Modules for professionals seeking to take a managerial role in security

2022 Tuition Fees

Please check the current tuition fee information on the UCD Fees website www.ucd.ie/students/fees

MSc in Cybersecurity
(90 credits, part time over 2 years)
Ireland/EU fees - € 6,375 per year
(total €12,750)
Non-EU fee - € 9,625 per year
(total €19,250)

Graduate Diploma and Certificate options and single modules are also available.

Flexible study options forprofessional learners

Lectures will be delivered online and complemented by face-to-face, intensive full-day tutorials that will typically be delivered three times per semester. The combination of mainly distance but with some on-campus days allows flexible learning but with face-to-face interactions. We plan to deliver the full-day tutorials in a hybrid mode to allow those students who will not be able to attend in person to participate remotely. Teaching activities will be supported by using security use cases, open-source web applications, cyber ranges and tools. When undertaken over 2 years, the MSc programme will require on average around 15 hours of study per week in addition to the workshops, tutorials and exams.

Related programmes

MSc in Forensic Computing & Cybercrime Investigation (T025) (90 credits)
This is a separate programme that is restricted to law enforcement officers investigating crimes.

EU ENQUIRIES
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NON-EU ENQUIRIES
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APPLY NOW
There is one intake per year in September. This programme receives significant interest so please apply early online at www.ucd.ie/apply

Course code: T380