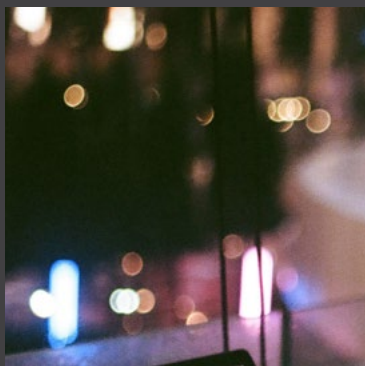


## MSc Cyber Risk For Business

CKL52

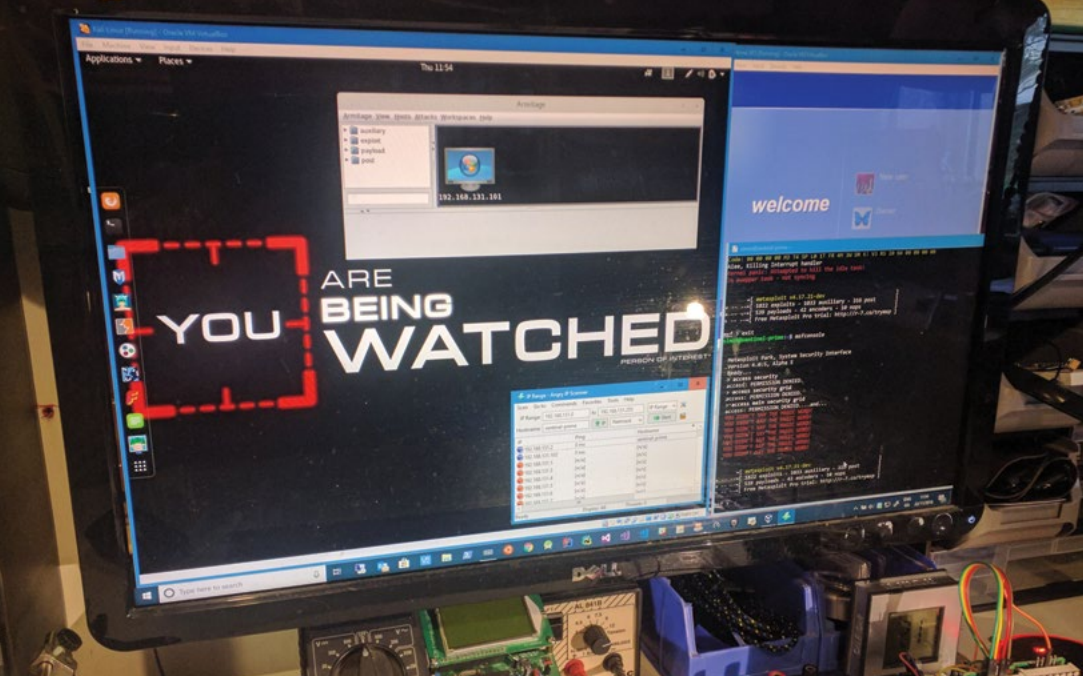


Managing Cyber Risk is essential for organisations that wish to protect themselves from attack, data breach or failure of vital information systems.

The MSc in Cyber Risk for Business (MSc CRB) provides students with the skills they need to become IS security analysts and IS risk auditors and to understand IS and data governance and project management. Students will gain the skills to be successful in roles such as Data Protection Officer, IT Risk Analyst, Security Analyst and Threat Intelligence Analyst.

The course covers topics such as IS Risk Control Auditing, Secure Architectures, Data Governance, Threat Analysis, Ethical Hacking and Post Breach Management.

Additionally, it provides students with a portfolio of business and project management skills, as well as enhancing knowledge of IS concepts and core technical skills. These core topics allow students to place their Cyber Risk skills in an organizational and business context.



## PROGRAMME DESCRIPTION

The MSc Cyber Risk for Business (MSc CRB) provides students with a portfolio of risk analysis and response methods for evaluating threats and assessing and minimizing information systems risk.

The MSc CRB provides students with a specialism in Cyber Risk as well as an extensive knowledge of business and IS concepts.

This specialism includes skills in understanding the application of privacy regulations including but not limited to GDPR.

At the core of this programme is a selection of topics covering cloud technologies, project management, data management, secure architectures, threat analysis and response.

A research project will allow student groups to explore and develop an IT solution to a business problem specific to the Cyber Risk Area.

This programme provides students with the technical skills and techniques needed by organisations to assess and minimize Cyber Risk and to

respond appropriately in the event of an attack or data breach.

## UNIQUE ASPECTS

This is a 12 month course where students build on their current technical qualifications.

Students develop a skill set appropriate for roles such as risk analysts, threat intelligence analysts, risk auditors, data privacy officers, business analysts and project managers.

This course is strongly associated with the Information Systems industry, and with organisations where Information Systems play a critical part. Active input on course content and specialisms is continuously incorporated from both local and multinational industry leaders. The MSc CRB is aligned in part with the ISACA curriculum for Information Systems and Data Governance and Audit

The MSc CRB also considers the technical enabling capability of IS and the behavioural aspects of management that support informed decision making.

The programme places an emphasis on design thinking and a cognitive approach to decision making.

Modules on professional development and research communication are included.

## CAREER INFORMATION

*What can I do after I graduate with a MSc Cyber Risk for Business?*

The Information Technology, Pharmaceutical, Financial Services, Manufacturing and Public Services are some of the sectors that require graduates from the MSc CRB.

These industries require graduates who understand privacy regulations, and who can evaluate security posture, identify weak points and recommend solutions.

Graduates will also find positions in business analysis, project management and general management open to them in the IT sector.

Typical roles include Project Manager, Business Analyst, Risk Analyst, Data Analyst, Threat Analyst, Data Protection Officer, Operations Research and IT Manager.

## LEARNING OUTCOMES

On successful completion of this programme, students should be able to:

- Communicate and work effectively to a high professional standard
- Demonstrate advanced analytical and problem solving skills associated with effective practice
- Engage in advanced application of frameworks and techniques in organizational settings
- Conduct research for business / policy sponsors and academic audiences
- Self-direct career development
- Understand the organisational context of privacy regulation, cyber risk, threat analysis and threat response.

Programme Code: **CKL52**  
Duration: **1 year (Full-Time)**  
Teaching Mode: **Classroom**  
Qualification: **MSc**  
NFQ Level: **Level 9**

## PRACTICALITIES & ASSESSMENT

### Practicalities

16 lectures hours per week with up to 4 hours of lab work per week.

Between 3 and 5 field trips will be organised throughout the year.

Group project work continues to early July, concluding the formal course content.

However, students may be required to complete an individual essay in their own time up until the end of July / early August.

### Assessment

A hybrid approach to assessment is used in this programme.

Assessments methods include formal written exams, essays, group and individual project work and lab practicals.

Some modules are 100% continuous assessment and most modules have a minimum of 40% continuous assessment.

During the programme, students will work individually and in groups.

A strong emphasis is placed on oral presentation of work.







## ENTRY REQUIREMENTS 2019

### Irish/EU Students and International Students

#### Applicants must have:

- A 2H2 (GPA 3.00 out of 4.00) primary degree at NFQ Level 8 Honours Degree or equivalent, with appropriate information systems or computing technology skills content.
- You may also be admitted to the programme on the basis of extensive practical or professional experience, as deemed appropriate by the Professor of Business Information Systems and the School of Business.
- Typical students are from technical disciplines such as, Management Information Systems (MIS) or Business Information Systems (BIS), engineering, computer science and mathematics. It is also suitable for business and humanities graduates who have studied computer science and Business Information Systems (BIS) subjects with some computer programming content.

#### English Language Requirement:

Applicants from non-native English-speaking countries will be required to undertake a recognised English language test.

Please see accepted tests and minimum requirements below.

#### IELTS: 6.5

With no individual section lower than 5.5

#### TOEFL: 90

With minimum scores as follows:

- Listening: 17      - Reading: 18
- Speaking: 20    - Writing: 17

**Cambridge Proficiency Exam:** Grade C

**Cambridge Advanced Exam:** Grade B

**Pearson PTE:** Minimum Score of 63

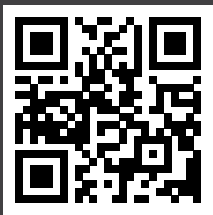
With no section score below 59

Priority will be give to candidates with very high language skills.

#### APPLICATION PROCESS

Application for this programme is online at the Postgraduate Application Centre [www.pac.ie/ucc](http://www.pac.ie/ucc) (PAC Code: CKL52)

For more information on the Programme:



#### PROGRAMME DIRECTOR

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