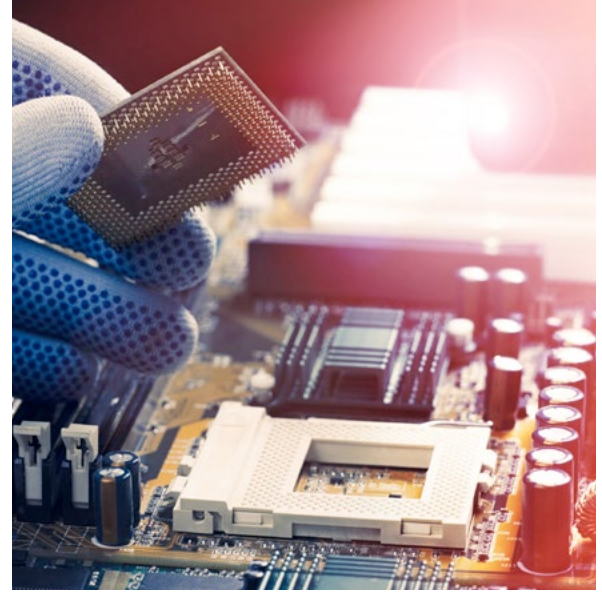


MSc Computing Science



Teaching Mode: Full-time

Qualifications: MSc

Fees: (EU) €7,130; (Non-EU) €18,130

Duration: 1 Year Full-time

Web link: www.ucc.ie/msccs

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The MSc in Computing Science provides students with the skills required to appreciate the entrepreneurship and innovation required in the software industry. Many national and multinational companies employ UCC Computer Science Graduates in areas such as software development & engineering; artificial intelligence and data mining, systems and networks, database and systems security as well as mobile multimedia, modelling, research and development. In addition to undertaking formal modules students get a chance to apply the skills they have learned by completing a substantial research and development project leading to a dissertation..

Career Opportunities

The ICT sector in Ireland is a thriving and growing industry, with 8 of the top 10 global ICT companies maintaining a presence in Ireland (**Enterprise Ireland**). This sector is one of the country's most prevalent employers with over 81,000 people employed by ICT companies in Ireland. Graduates of the MSc Computing Science can take up employment in areas such as Software Development, Systems design, architect and management, Cybersecurity, Product Management, Systems Administration and Network Engineering.

The class of 2018, reported 92% were in employment one year after graduation. Some of the companies employing MSc graduates include Accenture, Altada Technology Solutions, Clearstream, Dell EMC, Ericsson, Firefox, IBM, VMware to mention but a few.

Entry and Eligibility

Candidates must have obtained at least a Second Class Honours Grade I degree or equivalent in any Computer Science or relevant equivalent area. Candidates who have obtained at least a First Class Honours in a Higher Diploma conversion course, such as the Higher Diploma in Applied Computing Technology offered at UCC will be considered. Equivalent technical experience/qualification. Such applications will be considered on a case-by-case basis. Candidates, for whom English is not their primary language, should possess an IELTS of 6.5 (or TOEFL equivalent) with no less than 6.0 in each individual category.

Programme Structure

Part I of the programme comprises 60 credits of taught modules. In Part II, a dissertation in Computing Science (30 credits).

What you will study

CS6403 Case Studies in Computing Entrepreneurship, **CS6408** Database Technology, **CS6409** Information Storage and Retrieval, **CS6410** Project Development Skills, **CS6422** Complex Systems Development, **CS6423** Scalable Computing for Data Analytics. Three modules from: **CS6301** Design of Cyber-Physical Systems, **CS6311** Mobile Network Protocols, **CS6312** Mobile Devices and Systems, **CS6314** Mobile Applications Design, **CS6320** Formal Methods for Distributed Systems, **CS6321** Model-Based Software Development, **CS6322** Optimisation, **CS6326** Applied Computer Simulation and Analysis, **CS6402** Virtualisation Technologies, **CS6420** Topics in Artificial Intelligence, **CS6424** Special topics in Computing Science. Three modules from: **CS6313** Services and Mobile Middleware, **CS6315** Mobile Systems Security CS6316 Cellular Network Services, **CS6317** Multimedia Technology in Mobile Networks, **CS6325** Network Security, **CS6327** Internet of Things: Technology and Application, **CS6405** Datamining, **CS6421** Deep Learning, **CS6425** Special Topics in Computing Science II, Research Project Module **CS6400** Dissertation in Computing Science .

FACTS: Many employment agencies report on typical salaries for different sectors; an example of those reported for careers in computer science are as follows: Python developer: €55,000- 65,000 IT manager: €75,00- 80,000 Software development manager: €85,000-120,000 These figures are indicative only. Salaries are in general higher than many other industries. (These figures are indicative only; students must satisfy themselves of potential remuneration based on their own research.)