

# School of Mathematical Sciences

## DT205 BSc (Honours) Mathematical Sciences

### Description

DT205 BSc (Hons) Mathematical Sciences is a broad-based mathematics degree which develops a deep knowledge and understanding of all branches of modern mathematics from pure and applied mathematics to statistics and operations research. It emphasises the applications of mathematical principles to real-world problems through mathematical modelling and practical problem solving, using industry-standard software.

Graduates possess highly-developed analytical and problem-solving skills and can embark on high-achieving careers in data analysis, science, industry, teaching, the public sector and other professions. Graduates are also ready to proceed to graduate study and higher degrees by research.

### Who is it for?

Anyone can study mathematics. Mathematical Sciences is a broad title that encompasses most areas of mathematics and statistics. This programme equips graduates with the mathematical, technical and problem-solving skills required by employers for modern analytical roles. Therefore, qualified mathematicians are extremely flexible, much sought after and enjoy a very wide range of careers.

### Careers

Graduates have high-calibre analytical, technical, modelling and problem-solving skills and are therefore extremely flexible and able to apply a broad range of mathematical techniques and rigour to countless applications and industries. In particular, many graduates enter the IT and Financial Services or enter technical roles in business and industry.

*more details overleaf...*

#### **For more information**

Coordinator: Maev Maguire

E: [maev.maguire@dit.ie](mailto:maev.maguire@dit.ie)

T: 01 402 4842/ 086 821 5017

W: [www.maths.dit.ie/ft/](http://www.maths.dit.ie/ft/)

School of Mathematical Sciences

Kevin Street, Dublin Institute of Technology

E: [mathsecretary@dit.ie](mailto:mathsecretary@dit.ie)

T: 01 402 4610

W: [www.maths.dit.ie](http://www.maths.dit.ie)



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## Features & content

- a full-time programme in a central Dublin location that opens up careers across sectors
- friendly and experienced lecturers
- an extremely flexible qualification recognised by employers and professional bodies
- graduates can progress to postgraduate study
- gain technical skills, advanced mathematical knowledge and develop practical graduate attributes
- a core of fundamental modules across pure & applied mathematics, statistics and operations research
- develop problem-solving skills through group-work and mathematical modelling
- use technical and industry-standard software in practical laboratory sessions
- gain work experience through work placement in a partner company or organisation
- a choice of advanced final-stage modules

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*I highly recommend the course to any student wishing to open as many doors as possible in their career path. Having dabbled in various areas over my short career, I don't believe it would have been possible without this degree. From my experience, when competition is high and graduate jobs are low, you really need something that sets you apart from the rest of the candidates. Having a Mathematical Science degree tells employers that you're likely to have the ability to understand and solve complex problems and be technology savvy...*

*Sorcha O. graduate*

## Entry Requirements

Entry is via CAO admissions system. We also welcome applications from international, mature and non-standard applicants. Please contact us.

## Other study opportunities

- BSc (honours) Industrial Mathematics (DT220)
- part-time undergraduate programmes: higher certificate (DT6248); ordinary degree (DT7248); honours degree (DT8248)
- MSc Mathematical Physics (DT9205 FT / DT9206 PT)
- MSc Applied Mathematics FT/PT (Sept: DT9209/DT9210; Jan: DT9210/DT9212)
- degrees by research (MPhil & PhD)
- Postgraduate Certificate in Applied Statistics (DT9002)
- CPD Diploma in Data Analysis for Professionals (DT8998)

**There is a programme to suit every entry point!**

*Individual modules can be studied as standalone CPD courses (please contact us).*