G1K509: Mathematical Sciences

Postgraduate Taught MSc 2020

Essentials

Please note: 2020-21 courses may be affected by Covid-19 and are therefore subject to change due to the ongoing impact of Covid-19. Summaries of course-specific changes resulting from the impact of Covid-19 will be provided to applicants during August 2020.

For the latest information on our plans for teaching in academic year 2020/21 in light of Covid-19, please see www.durham.ac.uk/coronavirus

<table>
<thead>
<tr>
<th>UCAS code</th>
<th>MSc</th>
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<tbody>
<tr>
<td>Degree</td>
<td></td>
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<tr>
<td>Mode of study</td>
<td>Full Time</td>
</tr>
<tr>
<td>Duration</td>
<td>1 year</td>
</tr>
<tr>
<td>Start Date</td>
<td>02/10/2020</td>
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<tr>
<td>Location</td>
<td>Durham City (<a href="http://www.durham.ac.uk/study/location/durham.city">www.durham.ac.uk/study/location/durham.city</a>)</td>
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<tr>
<td>More information</td>
<td>Still have questions? (<a href="http://www.durham.ac.uk/study/askus/">www.durham.ac.uk/study/askus/</a>)</td>
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<tr>
<td>Department(s) Website</td>
<td><a href="http://www.durham.ac.uk/mathematical.sciences">www.durham.ac.uk/mathematical.sciences</a></td>
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Course Summary

Description

This course aims to bring you, in 12 months, to a position where you can embark with confidence on a wide range of careers, including taking a PhD in Mathematics or related disciplines. There is a wide range of taught modules on offer, and you will also produce a dissertation on a topic of current research interest taken from your choice of a wide range of subjects offered.

Course structure and overview

- Six taught modules in October-May
- A dissertation in June-September.

Modules: Six of available options

In previous years, optional modules available included:

Modules in Pure Mathematics:

- Algebraic Topology IV
- Analysis III/IV
- Codes and Cryptography III
- Differential Geometry III
- Galois Theory III
- Representation Theory III/IV
- Riemannian Geometry IV
- Topology III
- Topics in Algebra and Geometry IV

Modules in Probability and Statistics:

- Bayesian Statistics III/IV
- Mathematical Finance III/IV
- Decision Theory III
- Operations Research III
- Statistical Methods III
- Stochastic Processes III/IV

Modules in Applications of Mathematics:

- Advanced Quantum Theory IV
- Continuum Mechanics III/IV
- Dynamical Systems III
- General Relativity IV
- Mathematical Biology III
- Partial Differential Equations III/IV
- Quantum Information III
- Quantum Mechanics III
- Solitons III and IV
Admissions Process

Subject requirements, level and grade
2:1 degree or equivalent in a relevant subject.

English Language requirements
Please check requirements for your subject and level of study (www.durham.ac.uk/learningandteaching.handbook/1/3/3/).

How to apply
www.durham.ac.uk/postgraduate/apply
## Fees and Funding

### Full Time Fees

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
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<tbody>
<tr>
<td>EU Student</td>
<td>£9,000.00 per year</td>
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<tr>
<td>Home Student</td>
<td>£9,000.00 per year</td>
</tr>
<tr>
<td>Island Student</td>
<td>£9,000.00 per year</td>
</tr>
<tr>
<td>International non-EU Student</td>
<td>£22,000.00 per year</td>
</tr>
</tbody>
</table>

The tuition fees shown are for one complete academic year of full time study, are set according to the academic year of entry, and remain the same throughout the duration of the programme for that cohort (*unless otherwise stated*).

Please also check costs for colleges and accommodation ([www.durham.ac.uk/postgraduate/accommodation/costs/](http://www.durham.ac.uk/postgraduate/accommodation/costs/)).

### Scholarships and funding

[www.durham.ac.uk/postgraduate/finance](http://www.durham.ac.uk/postgraduate/finance)
Career Opportunities

Department of Mathematical Sciences

For further information on career options and employability, including the results of the Destination of Leavers survey, student and employer testimonials and details of work experience and study abroad opportunities, please visit our employability web pages (www.durham.ac.uk/maths/postgraduate/employability).
Open days and visits

Pre-application open day
www.durham.ac.uk/postgraduate/visit

Overseas Visit Schedule
www.durham.ac.uk/international/office/meetus

Postgraduate Visits
PGVI or
www.durham.ac.uk/postgraduate/visit/
Department Information

Department of Mathematical Sciences

Overview

The Department of Mathematical Sciences is one of the leading research units in the country, with interests in a wide range of areas in pure mathematics, applied mathematics and theoretical physics, as well as statistics and probability. The Department has excellent facilities for postgraduate studies. All research students have their own workspace with a network-linked computer. We also offer many research seminar series, in which you can actively participate. One measure of the vibrancy of our research is the number of postgraduate students we attract.

Ranking

Ranked joint 1st in the UK for Internationally Excellent and World-Leading research impact in REF 2014.

Website

www.durham.ac.uk/mathematical.sciences