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Pre-Masters Certificate in Mathematics

Can't see the video? Try this link (/Video/college-eps/maths/maths-pgt-video-2013.flv) .

Postgraduate Pre-Masters Certificate in Mathematics

This programme provides an opportunity for graduates in any programme with a substantial mathematics element to fill in the gaps in their mathematical background and thus enable them to study an MSc or MRes programme, either organised by the School of Mathematics or by another School with a contribution from the School of Mathematics. Based on individual assessments of the candidates a bespoke programme will be compiled for them from the list of optional modules.

Study here and find out why the University of Birmingham has been awarded The Times and The Sunday Times University of the Year 2013-14 (http://www.birmingham.ac.uk/news/latest/2013/09/20-sep-Birmingham-announced-as-University-of-the-Year.aspx)

Course fact file

Type of Course: Taught

Study Options: Full time

Duration: 1 year full-time

Start date: September

Related courses

Postgraduate degree courses, School of Mathematics Graduate school (/schools/mathematics/postgraduate/index.aspx)

Contact

Admissions Tutor: Dr Biman Chakraborty
Telephone enquiries: +44 (0) 121 414 6460
Email: (mailto:r.j.dyson@bham.ac.uk) b.chakraborty@bham.ac.uk (mailto:b.chakraborty@bham.ac.uk)

School of Mathematics (/schools/mathematics/index.aspx)

Follow us on Twitter (http://twitter.com/eps_unibham)

Details

This programme aims to provide an opportunity for graduates in any programme with a substantial mathematics element to fill in the gaps in their mathematical background and thus enable them to study an MSc or MRes programme, either organised by the School of Mathematics or by another School with a contribution from the School of Mathematics. Based on individual assessments of the candidates a bespoke programme will be compiled for them from the list of optional modules.

Breakdown of course

For each candidate a programme of six courses will be compiled from courses from the School's undergraduate programme according to the individual student needs. Lectures for each module will be delivered over the Autumn and Spring terms. The following list of optional modules is typical of the large array of courses available. Each module listed below comprises a total of 20 credits and students need to obtain 120 credits in total.

- Algebra & Combinatorics
- Impact of Mathematics
- Mechanics
- Mathematical Modelling & Problem Solving
- Probability & Statistics
- Real Analysis & the Calculus
- Vectors, Geometry & Linear Algebra
- Real & Complex Variable Theory
- Polynomials and Rings & Metric Spaces
- Symmetry and Groups
- Analytical Techniques
- Linear Algebra & Programming
- Applied Mathematics II
- Statistics II
- Linear Programming

Each module will be taught through a mixture of lectures, self study and supporting classes.

Related links

- **Postgraduate degree courses, School of Mathematics (/schools/mathematics/postgraduate/index.aspx)**

Fees and funding

Fees for 2015/2016:

- Home/EU - £9,000
- International - £14,140

Scholarships and studentships
Scholarships may be available. International students can often gain funding through overseas research scholarships, Commonwealth scholarships or their home government.

For further information contact the **School directly (mailto:r.mycroft@bham.ac.uk)** or email **financialsupport@bham.ac.uk (mailto:financialsupport@bham.ac.uk)** . See also **postgraduate fees and funding (/postgraduate/pgt-fees/index.aspx)** .

Entry requirements

Typical offer:

Overseas students: Undergraduate (BSc) degree in Mathematics or Mathematics related subject or General BSc with Mathematics as a substantial subject from a recognised University. Grade: Equivalent to UK - Min 2:1.

Home students: Minimum BSc degree in Mathematics or Mathematics related subject or General BSc with Mathematics as a substantial subject. Grade: Min 2:1.

International students:

Learn more about **international entry requirements (http://www.birmingham.ac.uk/students/pg/requirements/international)**

Standard English language requirements (/postgraduate/requirements-pgt/international/index.aspx) apply

How to apply

When clicking on the Apply Now button you will be directed to an application specifically designed for the programme you wish to apply for where you will create an account with the University application system and submit your application and supporting documents online. Further information regarding how to apply online can be found on the **How to apply pages (http://www.birmingham.ac.uk/students/courses/postgraduate/apply-pg/index.aspx)**

Apply now (https://pga.bham.ac.uk/lpages/EPS081.htm)

Related links

Postgraduate degree courses, School of Mathematics Graduate school (/schools/mathematics/postgraduate/index.aspx)

Learning and teaching

Based on individual assessments of the candidates a bespoke programme will be compiled for them from the list of optional modules on the course details tab .

Each module will be taught through a mixture of lectures and supporting classes.

Related staff

Dr Richard Mycroft (/staff/profiles/maths/mycroft-richard.aspx)

Employability

Career opportunities

This programme is designed to equip graduates with the mathematical skills required for subsequent study of the various MSc programmes organised by the School of Mathematics or by another School with a contribution from the School of Mathematics.

Each of these MSc programmes will open up a range of careers opportunities for successful graduates; see the individual programme sites for further details.

University Careers Network

Preparation for your career should be one of the first things you think about as you start university. Whether you have a clear idea of where your future aspirations lie or want to consider the broad range of opportunities available once you have a Birmingham degree, our Careers Network can help you achieve your goal.

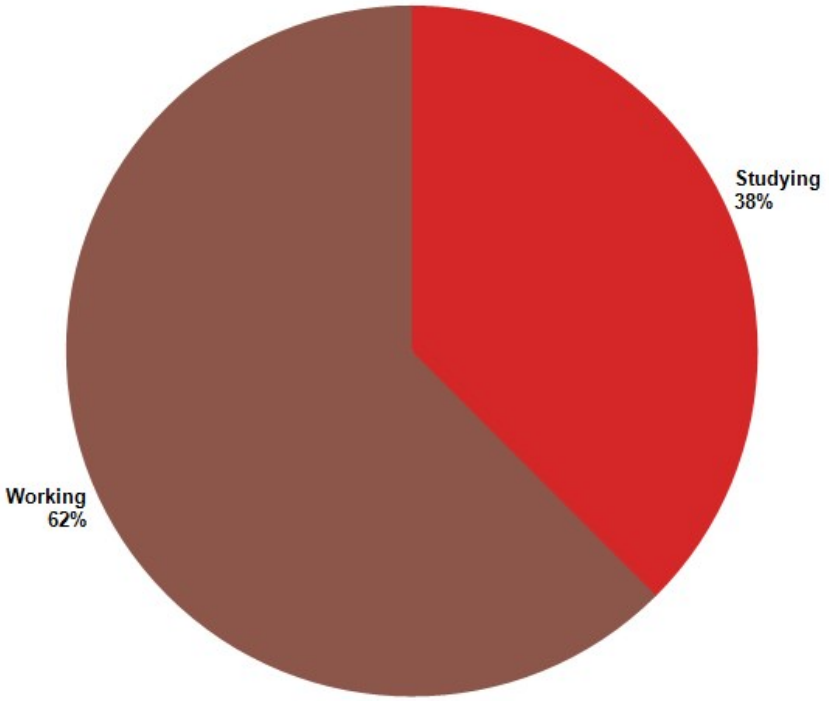
Our unique careers guidance service is tailored to your academic subject area, offering a specialised team (in each of the five academic colleges) who can give you expert advice. Our team source exclusive work experience opportunities to help you stand out amongst the competition, with mentoring, global internships and placements available to you. Once you have a career in your sights, one-to-one support with CVs and job applications will help give you the edge.

If you make the most of the **wide range of services (https://intranet.birmingham.ac.uk/as/employability/careers/college/eps/index.aspx)** you will be able to develop your career from the moment you arrive.

Destinations of Leavers from Higher Education (DLHE) 2011/12

The DLHE survey is conducted 6 months after graduation.

Examples of employers



- Aon Hewitt
- Barnett Waddingham
- Capita
- Deloitte
- Deutsche Bank
- Ernst & Young
- Mercer
- PricewaterhouseCoopers
- Softcat
- Tudor Grange Academy School

Examples of occupations

- Actuarial Trainee
- Actuarial Consultant
- Actuary
- Analyst
- Associate Auditor
- Consultant
- Financial Analyst
- Management Accountant
- Secondary School Teacher
- Software Tester

Further study-examples of courses

- ACA - Accountancy
- ACCA - Accountancy
- MSc Accounting and Finance
- MSc Actuarial Science
- MSc Computing Systems
- MSc Finance and Investment
- MSc Operational Research
- MSc Statistics
- PGCE Mathematics
- PhD Applied Mathematics

Visit the **Careers section of the University website (https://intranet.birmingham.ac.uk/as/employability/careers/index.aspx)** for further information.

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