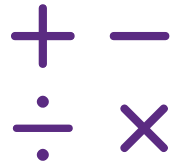




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# MATHEMATICS AND APPLIED MATHEMATICS

BSc (Hons)



# ARE YOU STIRLING?

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## REASONS TO CHOOSE THIS COURSE

### 1 MORE THAN JUST A DEGREE

Employers increasingly look for research experience and extracurricular activities *in addition to a good degree*. We have been entering teams of students in 'The Mathematical Contest In Modeling' with great success since 2011. This offers students the chance to develop skills that employers are looking for. We also offer summer placements either with staff or companies.

### 2 ACTIVE IN RESEARCH

We are an active research Institute, with funded research from the UK Engineering and Physical Sciences Research Council (EPSRC) of over £1.4m, as well as funding from the European Union FP7 Programme, other UK Research Councils and funding agencies.

### 3 EXTERNAL IMPACT

Dr Jozsef Farkas, a leading Stirling academic, is on the Editorial Board of the BIOMATH Journal and the Journal of Biological Dynamics.

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## WHY STUDY MATHEMATICS OR APPLIED MATHEMATICS?

Do you enjoy numbers the way others enjoy music, poetry or art?

Mathematical training develops both specific skills and broad analytical expertise, which are valued across all professions; and there is a particular demand for graduates who not only have quantitative skills, but also know how to use them.

Our courses deliver that sought-after combination – both through our teaching style and our focus on real-world applications of both mathematical and statistical techniques. For instance, you will use the mathematics computing laboratories as an integral part of your learning process, making your study as much experimental as theoretical.

Our Mathematics and Statistics department provides a stimulating and supportive learning environment and we have a strong and active research group. Its major interest is the application of mathematics to biology, economics and life sciences, and we offer combined Honours degrees in the relevant disciplines.

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## THIS COURSE ACHIEVED 100% STUDENT SATISFACTION

(National Student Survey 2016)

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### COURSE DETAILS

In Semesters 1-3, you take Mathematics plus two other subjects. Material covered at secondary level is reviewed and applied before being developed further, ensuring a smooth transition from a school teaching approach to a university one.

You take core modules in: Calculus of One and Several Variables; Vectors, Matrices, Complex Numbers and their Application in Geometry and Systems Theory; Probability; and Analysis.

You have the option to take modules in: Discrete Mathematics and Statistics. These are encouraged but not required.

In Semesters 4-8, both Honours courses cover a broad range of skills. Advanced modules cover the following key areas: mathematical techniques for solving a wide range of problems; the theory underlying these mathematical techniques; and model-building, i.e. converting real-world problems into mathematical form. The Mathematics degree will include core modules in pure mathematics (e.g. further analysis) and both the Mathematics and Applied Mathematics degrees will involve projects to allow further more independent but supported studies in these areas.

## CAREER OPPORTUNITIES

There is a growing need for graduates with mathematical skills in business, research and the sciences, and this degree provides both the theoretical background and the quantitative skills required for the solution of realworld problems.

### This course may be combined with:

Accountancy (GN14); Biology (CG11); Computing Science (G4G1); Economics (GL11); Environmental Science (F9G1); Finance (GN13); French (GR11); Professional Education (GX11); Professional Education/Computing Science (GX91); or Psychology (CG81).

### Related degrees:

Mathematics (G100) Applied Mathematics (G120)

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**“The University of Stirling is 3rd in the UK and 1st in Scotland for graduate employability with almost 97% of our graduates in employment or further study within six months of graduating”**

HESA 2016).

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## MATHEMATICS G120

### APPLIED MATHEMATICS [stir.ac.uk/4p](http://stir.ac.uk/4p)

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#### MINIMUM REQUIREMENTS

##### YEAR 1 ENTRY - FOUR-YEAR HONOURS

#### SQA Highers:

ABBB – one sitting

AABB – two sittings

#### GCE A-levels:

BBB

#### IB Diploma:

32

#### BTEC (Level 3):

DDM

#### Essential subjects:

To include Mathematics.

##### YEAR 2 ENTRY - THREE-YEAR HONOURS

#### SQA Highers:

ABB

#### GCE A-levels:

ABB

#### IB Diploma:

35

#### Essential subjects:

To include Mathematics.

#### OTHER QUALIFICATIONS

#### Scottish HNC/HND:

Minimum entry:

Bs in graded unit.

#### ADDITIONAL INFORMATION

General entry requirements

apply. Please visit:

<http://stir.ac.uk/av>

#### PART TIME, ADVANCED ENTRY AND STUDY ABROAD OPTIONS AVAILABLE



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## CONTACT

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W: [cs.stir.ac.uk](http://cs.stir.ac.uk)

**Student Recruitment and Admissions**  
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E: [recruitment@stir.ac.uk](mailto:recruitment@stir.ac.uk)

[stir.ac.uk/65](http://stir.ac.uk/65)

**JOIN OUR COMMUNITY**



**ARE YOU  
STIRLING?**

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