Maths Teachers’ Conference

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1st July 2016

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Outline

- Teaching: Undergraduate and Postgraduate Courses at Sussex
- Research
Undergraduate courses

3 year BSc, 4 year MMath, Research Placement, “with”

- Mathematics with Foundation Year (BSc)
- Mathematics (BSc, MMath, MMath (Research Placement))
- Mathematics with Economics (BSc, MMath)
- Mathematics with Finance (BSc, MMath)
- Mathematical Physics (BSc, MMath)

All courses are accredited by the Institute of Mathematics and its Applications (IMA)
Postgraduate courses

- MSc Mathematics
- MSc Financial Mathematics
- MSc Corporate and Financial Risk Management
- MSc Data Science (with Informatics, Physics, Life Sciences)
Typical teaching and learning in Mathematics

Two teaching terms (12 weeks) per year, each term students take four modules

Each module consists of

- 3 hours lecture, 1 hour workshop (25-30 students) per week
- Lecture: interactive lecturing style, lecture capture, lecture notes on VLE
- Workshops: discussion of exercises, group work, feedback on submitted worksheets, student presentations

National Student Survey 2015: 94% overall satisfaction
Employability skills

- Careers (integrated into 2nd year module): interests, skills, CV, application
- Outreach (skills for our UG students and useful for you)
- Computer skills
- Presentations
- Dissertation (presentation skills, research methods)
- Essays, group projects (some modules)
- Communicating STEM/Researching STEM (new modules from Education)
- Accreditation by IMA
- Mathematics 3rd in the UK for graduate prospects (2016 Times/Sunday Times University Guide)
Characteristics of Mathematics at Sussex

Sussex Choice

- Year abroad (both within Sussex Choice and as Variation of Study)
- Placement year (voluntary)

Mathematics at Sussex

- Academic Advisor
- Additional help: student support assistant, peer assisted learning
- Student space, Foyer
- Open door policy (beyond office hours)
- Maths Society Lectures (organised by students)
Research

- 22 faculty
- 350 undergraduate, 64 postgraduate, 50 PhD students
- Research areas:
  - Analysis and PDEs including Financial Mathematics
  - Mathematics Applied to Biology
  - Numerical Analysis and Scientific Computing
  - Geometry and Topology
  - Probability and Statistics
- 2014 research excellence framework (REF):
  81% outputs world-leading (4*) or internationally excellent (3*)
Grants

- two Innovative Training Network (EU) to fund and train PhD students
- two research projects from Leverhulme Trust
- PhD positions and First Grant from Engineering and Physical Sciences Research Council (EPSRC)
- two research projects from Icelandic Research Fund
- workshops and conferences, partly supported by London Mathematical Society