



**To: Senior Mathematics Tutors (also to all college mathematics tutors)**

**Michaelmas Term 2015 – Teaching Information**

**Academic Administration**

Those in the Mathematical Institute involved in the administration of courses are as follows:

- **Charlotte Turner-Smith, Academic Administrator**  
[academic.administrator@maths.ox.ac.uk](mailto:academic.administrator@maths.ox.ac.uk)
- **Catherine Goodwin, Academic Policy Officer** [goodwin@maths.ox.ac.uk](mailto:goodwin@maths.ox.ac.uk)
- **Helen Lowe, Deputy Academic Administrator**  
[helen.lowe@maths.ox.ac.uk](mailto:helen.lowe@maths.ox.ac.uk)  
*Helen provides administrative support for Part B/C examinations, for the Projects Committee and for the Mathematics Teaching Committee. This post also has responsibility for preparing lecture timetables and arranging payment for intercollegiate class teaching.*
- **Nia Roderick, Academic Assistant** [roderick@maths.ox.ac](mailto:roderick@maths.ox.ac)  
*Nia is responsible for administration of the Prelims and Part A examinations, for students with disabilities, MATLAB, open days and undergraduate admissions administration.*
- **Jessica Sheard – Academic Assistant** [sheard@maths.ox.ac.uk](mailto:sheard@maths.ox.ac.uk)  
*Jessica is responsible for room bookings and assisting with organisation of intercollegiate classes. She is responsible for the admissions for the MMathPhys, MSc in Mathematics and Theoretical Physics and the MSc in Mathematics and the Foundations of Computer Science. She also assists with the on-course administration for the MMathPhys/MSc in Mathematics and Theoretical Physics.*
- **Monica Finlayson, MSc Course Administrator**  
[finlayson@maths.ox.ac.uk](mailto:finlayson@maths.ox.ac.uk)  
*Monica provides administrative support for administration of the MSc in Mathematics and the Foundations of Computer Science and the MSc in Mathematical Modelling and Scientific Computing.*
- **Sandy Patel, Graduate Studies Assistant**  
[graduate.studies@maths.ox.ac.uk](mailto:graduate.studies@maths.ox.ac.uk)  
*Sandy is responsible for all postgraduate research matters.*
- **Laura Dean, MSc Course Administrator** [mathcompfin@maths.ox.ac.uk](mailto:mathcompfin@maths.ox.ac.uk)  
*Laura provides administrative support for administration of the MSc in Mathematical and Computational Finance and is PA to the Mathematical Finance research group.*
- **Octavia Kelly, Administrative Assistant**  
[mathcompfin.admissions@maths.ox.ac.uk](mailto:mathcompfin.admissions@maths.ox.ac.uk)  
*Octavia provides administrative support for admissions for the MSc in Mathematical Finance and the MSc in Mathematics and Computational Finance. She is also responsible for collating student feedback.*
- **Mathematical Finance Administrator (Vacant)**  
[mathematical.finance@maths.ac.uk](mailto:mathematical.finance@maths.ac.uk)  
*This post will be responsible for the administration of the MSc in mathematical Finance.*

## Information for first year undergraduates

### Induction Programmes

There will be an induction programme for all first year students it will be held on **Friday, Week 0 (9<sup>th</sup> October) 2pm – 3pm in L1 in the Mathematical Institute, Andrew Wiles Building, Radcliffe Observatory Quarter, Woodstock Road.**

Please note the induction is compulsory for

Mathematics students

Mathematics & Statistics students

Mathematics & Philosophy students

Mathematics & Computer Science students

### **Further sessions are organised for students in the Joint Schools:**

#### **Mathematics & Statistics Induction**

Friday, Week 0, 3.30pm:

Department of Statistics, 1 South Parks Road.

#### **Mathematics & Computer Science & Computer Science**

Friday, Week 0, 3pm

Department of Computer Science, Wolfson Building, Parks Road.

#### **Mathematics & Philosophy Induction**

Friday, Week 0, 3pm

Radcliffe Humanities Building, Radcliffe Observatory Quarter, Woodstock Road.

#### **Mathematics & Philosophy Induction held by the Faculty of Philosophy:**

Details can be found here

<http://www.bodleian.ox.ac.uk/using/training/undergraduate>

#### ***All students:***

Details of **library inductions** (in the RSL, Philosophy Library, etc) vary between colleges. For details consult

<http://www.bodleian.ox.ac.uk/services/training/undergraduate>

## Undergraduate Handbooks and Course Synopses

### **Mathematics Handbook**

Please note that Mathematics Handbooks will be distributed to first-year students at the Induction session on Friday of Week 0. The Handbook is posted on the website at

<https://www.maths.ox.ac.uk/members/students/undergraduate-courses/teaching-and-learning/handbooks-synopses>

### **Mathematics and Philosophy Handbook**

The handbook will be given out at one of the Induction sessions and is available at

<https://www.maths.ox.ac.uk/members/students/undergraduate-courses/teaching-and-learning/handbooks-synopses>.

### **Mathematics and Statistics**

The handbook is available at

[http://www.stats.ox.ac.uk/current\\_students/bammath/course\\_handbooks](http://www.stats.ox.ac.uk/current_students/bammath/course_handbooks)

## Mathematics and Computer Science

The handbook is available at

<http://www.cs.ox.ac.uk/teaching/mcs/>

## Mathematics and Theoretical Physics

The handbook is available at

<https://mmathphys.physics.ox.ac.uk/students>

## Syllabi, Lecture Synopses, Reading Lists: Prelims, Parts A, B, C for 2015/16

All syllabi, synopses and reading lists can be found at:

<https://www.maths.ox.ac.uk/members/students/undergraduate-courses/teaching-and-learning/handbooks-synopses>

Paper copies of the Prelims synopses will be distributed at the Undergraduate Induction session.

## Computational Mathematics

### ***For students in Mathematics and Mathematics & Statistics only:***

The Computational Mathematics projects are compulsory and will be counted towards Prelims.

- a) **Lectures** There will be an explanatory lecture in MT in Week 2 and a further one on Computational Mathematics projects in HT Week 1. The MT lecture will be on ***Friday in Week 2 at 11am in the Mathematical Institute L2.***
- b) **Demonstration Sessions** These will be in the Mathematical Institute. Sessions will be held as follows: MT 2015 Weeks 3-8: Monday, Thursday & Friday 11am – 1pm, Monday, Tuesday and Wednesday from 4pm-6pm in classrooms of size 20, students will attend one session every two weeks. **A timetable showing Computational Mathematics sessions for students in your college this term has been sent by email.**
- c) **Access to MATLAB** Students may access the system through college or individual computers; for details of how to do this they should consult the computing support at their own college. Further details on how to install MATLAB are available at <http://www.maths.ox.ac.uk/members/it/software-personal-machines/matlab>
- d) **IMPORTANT: Laptops** Students should bring a laptop to the demonstration sessions and install MATLAB as above. Those without personal laptops are asked to contact Nia Roderick ([roderick@maths.ox.ac.uk](mailto:roderick@maths.ox.ac.uk)) as soon as possible to organise to borrow one from the Institute for the duration of a session.
- e) **Logging-on and submission of projects in Hilary Term** This can be done using university computer accounts, so there is no need for students to have a maths account. The project submission will be handled by Mathematics. Details at <http://www.maths.ox.ac.uk/members/it/faqs/undergrads/course-work>
- f) **Using MATLAB in lecture courses** Lecturers are encouraged to talk to Dr Thompson about examples they could use in problem sheets where using a package is the most efficient method, eg. searching for patterns – which a student could then prove a general result about.
- g) **Computational Mathematics Manual** The new manual for Michaelmas Term will be handed out at the Undergraduate Induction.

## **E-mail**

All first years will be asked either to use their college email accounts, or to set up a 'forward' from those accounts to one which they use regularly. (Full details of how to do this are given in the Undergraduate Handbook). Information about courses will often be sent directly to students by e-mail, **and all students should check their e-mail regularly.**

## **Information for second, third and fourth year students**

### **Examination Entry Parts A, B and C.**

Examination entry for second, third and fourth year students is on-line. Students will be instructed to complete their entry on-line through student self-service. Academic Records will be sending out further details closer to the deadlines (which are in Hilary Term). The exam entry dates will still be as follows:

Part A students by noon Friday of Week 4 of Hilary Term 12<sup>th</sup> February 2016.

Part B and C students by noon Friday of Week 2 of Hilary Term 29<sup>th</sup> January 2016.

### **Student Registration – Self-Service**

Each student needs to register via Student Self Service

([https://www.studentsystem.ox.ac.uk/OA\\_HTML/xxigs/xxigsAppsLocalLogin.jsp](https://www.studentsystem.ox.ac.uk/OA_HTML/xxigs/xxigsAppsLocalLogin.jsp)) at the anniversary of the term in which they first started their current programme of study. When they access Student Self Service they will be asked to confirm their personal details, check their programme of study details, and confirm their new or continuing status as a student for the forthcoming academic year.

### **Intercollegiate Class scheme (Parts B and C)**

The Minerva database is used to administer the classes. This is to reduce the administrative burden for all involved, and allow college tutors to monitor, through the web, the progress of their students.

New lecturers can obtain a password by emailing [acadadmin@maths.ox.ac.uk](mailto:acadadmin@maths.ox.ac.uk).

Each college has a password so that college tutors can follow the progress of students at their college. Again, passwords can be obtained by emailing [acadadmin@maths.ox.ac.uk](mailto:acadadmin@maths.ox.ac.uk).

Please note that Classes in Statistics and in Computer Science are administered using similar systems, but you will need to contact the Statistics Department (Jan Boylan – [boylan@stats.ox.ac.uk](mailto:boylan@stats.ox.ac.uk)) and the Department of Computer Science (Leanne Carveth – [leanne.carveth@cs.ox.ac.uk](mailto:leanne.carveth@cs.ox.ac.uk)) for details/passwords.

Each year we arrange sufficient classes to cover students who have registered before the beginning of term. Any large classes are a result of students changing preferences early in the term.

**Students will be able to sign up to classes on-line. Sign up will open at 9am on Thursday of Week 0 and will close at 9am on Monday of Week 1.** As in previous years any changes to classes must be made by Monday of Week 4.

We will ask class tutors to provide class times and dates by Wednesday Week 0.

## **French & Spanish Classes**

Students in Mathematics and Mathematics & Statistics are eligible. Students in Mathematics & Philosophy are eligible if there are sufficient places. Students who are interested should attend the Language Centre, Woodstock Road for a qualifying test on Monday of Week 1 from 5-7pm. Students will be emailed about this.

## **Part A Structure – Long Options – IMPORTANT CHANGE**

Second year Mathematicians need to offer papers A0, A1, A2 and Paper ASO (on the Short Options). *They also need to offer 5 or 6 of the Long Option papers.* Previously 5 was the only possibility, and it is expected that this will remain the case for most students with perhaps some selection of high-achieving students taking on the extra workload.

If a student wishes to be examined in 6 long options they may be and should fill in the exam entry form accordingly in due course. When 6 long options are taken the student's best four papers will count with a unit's weight and the worst two papers with half a unit's weight. (This is so that the extra paper is not lightly decided upon but at the same time students are not disadvantaged in taking an extra option). All exam marks will appear on a student's transcript. If in doubt, students should discuss this further with their college mathematics tutors.

*Only Mathematics and Mathematics & Statistics students are currently eligible to take an extra long option.*

The long options are largely lectured in Hilary Term, the two exceptions being A8 *Probability* and A11 *Quantum Theory*. It was the view of Faculty and Teaching Committee that taking one of these two options in MT would make for an appropriate workload. It is of course possible to take neither or both. The former would make for a rather light term; the latter was also felt to be possible if some of the tutorial teaching was delayed into HT.

[Note also that the previous 3 hours paper A1 will be set as two separate 1.5 hours papers A0 (Linear Algebra) and A1 (Differential Equations 1) in 2016.]

## **FHS Maths & Philosophy Second Years –Part A structure**

If any candidate wishes to apply to the Joint Committee for Mathematics & Philosophy for approval of other optional subjects as listed for Part A of Mathematics – beyond the standardly permitted Rings and Modules, Integration, Topology, Probability, Short Options – the application should be made through the candidate's college to the Chairman, Joint Committee for Mathematics & Philosophy, c/o Academic Administrator, Mathematical Institute, to arrive by **5pm on Monday of week 2 Hilary Term.**

## **Essays and Dissertations**

Students wishing to do an *Extended Essay* (option BE/OE in the third year) or *Dissertation* (option CD /CO in the fourth year) should apply to the Projects Committee **by Friday of Week 0**. Application forms and Guidance Notes are on the web at:

<http://www.maths.ox.ac.uk/current-students/undergraduates/projects/>

There is a lecture for those who choose to offer a project, by way of guidance on writing it up. *'Projects: Presenting a Thesis'* – this is on Friday Week 7, 10am, in Room L5, Mathematical Institute.

## LaTeX Lectures

We will be running a series of LaTeX lectures open to all students, both research and undergraduate. They will be held at the following times in Michaelmas Term: Tuesday 11am weeks 1-3, Mathematical Institute L5.

## MMathPhys

MMath students entering their third year (but not joint schools) will have the option of applying to transfer to a fourth year in Mathematical and Theoretical Physics, and completing their degree with an MMathPhys. The deadline for applications is **noon on 22<sup>nd</sup> January 2016**. Full details can be found at <http://www-thphys.physics.ox.ac.uk/MMathPhys/MMathPhysweb/index.html>

The course is challenging and it is anticipated that most students transferring to the course will achieve first class marks in Parts A/B. Students who unsuccessfully apply to transfer will be permitted to continue to Part C (if they wish and achieve the required 2.1).

## Information for all students

### Lecture List – changes to the printed list

Please note that there have been some changes to the printed list. The updated list can always be viewed on the website at

<https://www1.maths.ox.ac.uk/members/students/lecture-lists>

**Please make sure that your students are using the most up to date list.** The lecture list will also be available on-line in a different format for all students.

## Information for Tutors

### Electronic Archive of Past Papers

In addition to the webpage with past examination papers, an electronic archive of past papers is now available from the Mathematical Institute website, as well as on the computer network. These can be downloaded for use in problem sheets, Collections, and the like. The LaTeX source and style files are available; as the style files have changed over time a certain amount of editing may be necessary. In order to access the papers see

<http://www.maths.ox.ac.uk/teaching-staff/examinations/past-papers-src/>

[You will need a Mathematical Institute computer account username and password to access these pages, and other teaching information. If you do not have one of these please contact [help@maths.ox.ac.uk](mailto:help@maths.ox.ac.uk)].

### ‘Graduate Teaching Register’

As graduate students register an interest in college teaching during the year, their details will be posted at

<http://www.maths.ox.ac.uk/notices/committees/reports/restricted/teaching-register>

### ‘Teaching the Undergraduate Mathematics Course: a Guide.’

A slightly revised version can be accessed on the web at:

<https://www.maths.ox.ac.uk/members/teaching-staff/restricted>

You will need a Mathematical Institute computer account username and password to access this.

Do also note that there also shorter documents at this site – briefing notes for new tutors; suggestions on giving lectures, tutorials, and intercollegiate classes; comments on common student difficulties and research re gender issues; the organization of mathematics teaching within colleges – which it is hoped will be helpful, especially for new tutors (faculty and graduates).

### **English Language Classes for Overseas Students**

We would just like to draw to your attention the English language courses available at the University's Language Centre for any overseas students who may need some additional help. Details of courses can be found at

<http://www.lang.ox.ac.uk/eas.html>

The Language Centre will also be offering a week-long intensive course in academic writing for overseas students, post-docs and contract researchers in Week 9 of TT for more details on this course please contact the Language Centre directly at [admin@lang.ox.ac.uk](mailto:admin@lang.ox.ac.uk)

Finally pre-sessional English Language Courses are available in July/August/September for overseas students before they arrive for more information please go to: <http://www.lang.ox.ac.uk/courses/pre-ses.html>

### **Events for students and tutors**

#### **Annual Institute Celebration (part of the London Mathematical Society (LMS) 150th anniversary events)**

On **Thursday Week 1 (15<sup>th</sup> October) at 5pm** in the Mathematical Institute there will be an event to both celebrate the 150<sup>th</sup> anniversary of LMS at which those students who were awarded prizes for their performance in the 2015 examinations will be recognised. Also those who have been awarded a departmental or divisional teaching award will also be recognised. **Prof Andrew Wiles will be giving a talk** and it will be followed by a drinks reception. We welcome all students and tutors. We do require you to register. If you would like to attend please email [nia.roderick@maths.ox.ac.uk](mailto:nia.roderick@maths.ox.ac.uk)

#### **Mathematics and Philosophy Welcome Lecture**

On **Wednesday Week 1 (14<sup>th</sup> October) at 5pm** in the Mathematical Institute there will be a welcome lecture for the joint schools Mathematics and Philosophy, Physics and Philosophy and Computer Science and Philosophy. The talk will be given by Professor Boris Zilber and it will be followed by a drinks reception. We welcome all joint schools students and tutors. If you would like to attend please email [nia.roderick@maths.ox.ac.uk](mailto:nia.roderick@maths.ox.ac.uk)

**Dr R A Earl**  
**(Director of Undergraduate Studies)**