Contents

Contents ................................................................. ii
1. Introduction ........................................................................ 1
2. Key Contacts 2021 – 2022 ................................................. 1
3. General Information ....................................................... 2
4. MPhil Calendar 2021-22 .................................................. 4
5. Course Structure and Requirements ................................. 5
6. Taught Modules 2020-21 .................................................. 6
7. Internship ........................................................................... 9
8. Unfair means, plagiarism and collusion .............................. 11
9. Assessment and Examination ........................................ 11
10. Resolving difficulties ..................................................... 15
11. Guide for Internship Supervisors and Examiners ............. 17
12. Safety and Security ....................................................... 19
13. Departmental Information ............................................. 21
14. Library ........................................................................... 22
15. Email and Computing .................................................. 22
1. Introduction

The MPhil in Computational Biology was developed by the Cambridge Computational Biology Institute (CCBI) and is run by the Department of Applied Mathematics and Theoretical Physics (DAMTP) at the Centre for Mathematical Sciences (CMS). DAMTP is one of two departments in the Faculty of Mathematics; the other being the Department of Pure Mathematics and Mathematical Statistics (DPMMS). The Faculty is part of the School of Physical Sciences.

This handbook provides administrative and other important information for MPhil students. In addition to this handbook there is a Moodle site https://www.vle.cam.ac.uk/course/index.php?categoryid=26821 which is the main repository for all materials, documentation and coursework submissions (all students will be given access at the start of the academic year). See Section 3 – General Administration and Section 9 – Assessment and Examination for further information.

Given the constantly evolving situation with Covid-19, the information provided in this handbook should be treated as a guide to how we intend to run this course. We will be keeping the situation under constant review and update the Handbook if necessary with any necessary changes.

2. Key Contacts 2021 – 2022

Course Directors

Professor Stephen Eglen (G0.11, M)
Email: ccbi-mphil-directors@damtp.cam.ac.uk

Professor Gos Micklem (G0.14, 60447)

Module Leaders

Dr Tom Monie (Introductory Course, Molecular Biology)
Dr Alastair Crisp (Genomics I)
Prof. Gos Micklem and Dr Hannah Earley (BioDesign)
Dr Aylwyn Scally (Genome Sequence Analysis)
Prof. Stephen Eglen (Deep Learning)
Prof. Stephen Eglen (Scientific Programming)
Dr Oscar Rueda (Genomics II)
Dr Fadwa Joud (Biological Imaging and Analysis)
Dr Florian Markowetz (Cancer Evolution)
Prof. Richard Durbin (Population Genetics)
Dr Johan Paulsson (Systems Biology)

MPhil Students

Maths-cbmphil-students@lists.cam.ac.uk
All MPhil students are subscribed to this list (see Section 15).

Course Administrator

Samantha Noel (Postgraduate Office, C0.15, 37966)
Email: compbiomphil@maths.cam.ac.uk
3. General Information

Induction and preliminary courses
At the start of the year you will be invited to attend an Induction in which administrative and other information about the course will be distributed. This year, the induction will take place on Monday 4th October 2021. All students are expected to attend this meeting. If you are unable to attend this meeting, you must let the Course Administrator know. The Introduction to Molecular Biology sessions will be delivered daily between 10am – 12pm, from Tuesday 5th to Thursday 7th October 2021.

Moodle
All students and staff associated with the MPhil course will be given access to the Course Moodle at the start of the year. The Moodle site: https://www.vle.cam.ac.uk/course/index.php?categoryid=26821 is the main repository for course materials and documentation and is also the means by which coursework is submitted.

Lectures
Lectures and practical sessions will be delivered in person where possible, alternatively pre-recorded material and live-streamed lectures will be available to students, information via the Course Moodle. The timetable will be circulated at the start of term. It is also published on the Course Moodle and Google Calendar (linked to the course Moodle) and is also on the Faculty’s website at www.maths.cam.ac.uk/lecturelists/. Any changes to the published timetable will be updated on Moodle and circulated to students by email at the earliest opportunity.

Examples classes / Office hours
To support students, we will provide examples classes. These will be tutorial like sessions with groups of about 5 students, with an expectation that there will be 3 hours for a 16-hour course (and one or two for an 8-hour course). These may be delivered by the lecturer or by PhD students. These sessions are compulsory and you are expected to attend.

In addition, Lecturers may offer an office hour, virtual or in person, to enable students to ask questions about course content.

Weekly seminar
During Michaelmas and Lent terms, a weekly seminar is held every Wednesday, 2-3pm. The seminars are not assessed, but are compulsory and you are expected to attend each week. A programme of speakers and their topics will be posted on Moodle. These will be delivered in person or by virtual means where necessary. Details can be found at http://talks.cam.ac.uk under Computational and Systems Biology Seminar Series 2021 - 2022

The aim of the seminar series is to provide students with potential opportunities and resources that may not be provided by the taught modules. In particular the seminars provide an opportunity to meet local researchers who may well have research positions they want to fill, be it the summer research project or PhD posts. We aim to invite a diverse range of speakers from across the spectrum of Computational Biology to demonstrate the wide range of application areas.

Residence
The MPhil is a full-time course which runs from October to the end of August. The last day of the course is 31st August. During term time students are expected to be resident in Cambridge. They may also be expected to participate in activities outside of full term (full term is principally set for the delivery of undergraduate programmes: term vs full term dates). Students should note that it is a
requirement of the MPhil degree that they are resident in Cambridge for three terms. To keep residence they must attend for a certain number of days in each term.

MPhil students may work under supervision outside of the University and be exempted from the residence requirement for up to one term. Application to work away is made as below. Exemptions to the residency requirement may be considered for MPhil by Advanced Study students as the course fulfils the criteria where mandatory internship may take place outside the University and cannot be scheduled at a time to meet the residency requirement.

In order to meet the requirement for Easter, students whose internship is to be held outside of Cambridge must spend 53 nights in Cambridge between 10th April and 18th June (unless Full Term begins after 22nd April, in which case between 17th April and 25th June). If you are not able to do this, you will need to apply formally in advance for Leave to Work Away from the University: [https://www.cambridgestudents.cam.ac.uk/your-course/graduate-study/your-student-status/work-away-cambridge](https://www.cambridgestudents.cam.ac.uk/your-course/graduate-study/your-student-status/work-away-cambridge). Please discuss this with the Course Administrator if you are uncertain if you will meet the requirement.

If granted, exemption from residence does not change the student’s fee liability.

The Student Registry, in discussion with the Degree Committee, may be able to grant the residence exemption in exceptional circumstances. For example, where intermission means an MPhil by thesis student would not meet the residency requirement by their adjusted submission deadline.

The relevant guidance, including information about working away due to the impact of COVID-19 can be found here: [https://www.cam.ac.uk/coronavirus/students/guidance-for-all-students/guidance-on-exceptional-circumstances-2021-22](https://www.cam.ac.uk/coronavirus/students/guidance-for-all-students/guidance-on-exceptional-circumstances-2021-22)

**Course representative**

Once you have had time to get to know one another we will ask you to elect a fellow student as a course representative. The role of the course representative is to provide feedback to us on any issues regarding the course, such as coursework and teaching. Further information will be circulated.

**Student Progress**

Each student will have the opportunity to meet individually with the Course Director once a term to discuss his/her progress. Information on how and when to sign-up for a meeting will be circulated. Further guidance on what to do if you encounter problems or difficulties can be found in Section 10 – Resolving difficulties.

**Student Feedback**

We encourage feedback from students on all aspects of the course. This helps us assess how well the course is running, and will help us to correct any current limitations. Feedback questionnaires will be circulated for each module at the end of each term. All feedback is anonymous and you are encouraged to complete the questionnaires. The responses will be sent to the relevant lecturers and to the Course Director for consideration.

In addition to this formal mechanism, we also encourage informal feedback at any time. Your comments regarding the course will be highly valuable to us in evaluating the content and direction of the course. As this area of computational biology is rapidly evolving, we expect to evaluate the content yearly to ensure that our students receive the best education possible in this field.

**Course Administration**
The Course Administrator is the main administrative contact for the MPhil (see Section 2 - Key Contacts). Any general questions you may have about the course should be directed to the Course Administrator in the first instance. The Course Administrator is part of the Mathematics Graduate Office team which is based in C0.15. In the Course Administrator’s absence please do not hesitate to contact any member of the team for assistance.

4. **MPhil Calendar 2021-22**

<table>
<thead>
<tr>
<th>Month</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>October</td>
<td>Mon 04</td>
<td>Induction 11.00-12.30 (students can join from 10.30 to chat)</td>
</tr>
</tbody>
</table>
|       | Tue 05 | Full Michaelmas term begins  
Introduction to Molecular Biology 10.00-12.00 (Lecture 1 Q&A with Tom Monie) |
|       | Wed 06 | Introduction to Molecular Biology 10.00-12.00 (Lecture 2 Q&A with Tom Monie) |
|       | Thur 07 | Introduction to Molecular Biology 10.00-12.00 (Lecture 3 Q&A with Tom Monie) |
|       | Fri 08 | Genomics I – 12.00-2.00  
(Overview to the course and Lecture 1 with Alistair Crisp) |
|       | Wed 13 | Seminar series commences 14.00 – 15.00 |
| November | Tues 02 | 1-to-1 meetings with Course Directors during this week |
| December | Wed 01 | Internship Meeting (Online meeting in place of usual Wednesday Seminar) |
|          | Fri 03 | Full Michaelmas term ends |
| January  | Tue 18 | Full Lent term begins |
|          | Wed 19 | Seminars commence |
|          | Thur 20 | Lent term teaching week 1 begins |
| Feb      | Fri 18 | Full Lent term ends  
Students will be notified of which modules are to be examined in the general examination by the end of Lent Term |
| March    | Tue 26 | Full Easter term begins |
|          | Thur 28 | Easter term teaching week 1 begins |
| April    | Fri 06 | Deadline for submitting internship project titles/arrangements (4pm) |
|          | Fri 13 | MPhil General Written Examination (2-4pm) Date TBC |
|          | Mon 16 | Internships begin |
| June     | Fri 17 | Full Easter Term ends |
| August   | Wed 10 | Deadline for submission of internship reports (4pm) |
|          | Mon 15 | Deadline for submission of internship presentation files (4pm) |
|          | Wed 17 – Fri 19 | MPhil Presentations |
|          | Fri 19 | MPhil Oral Examinations where applicable |
5. Course Structure and Requirements

Please note that the examination details set out in this section are currently subject to confirmation from the General Board’s Education Committee and may be changed in light of restrictions imposed as a result of Covid-19. Any changes will be updated in the Handbook, published on the Moodle and circulated to students as soon as possible.

The modules to be offered in 2021-22 are as set out below. All taught modules are assessed by coursework assignment. Normally students will be set two or three assignments for each full module. Please see course outlines for details of forms of assessment. In addition, students sit a two-hour general examination in the Easter Term on the material taught within the modules. Students are also required to complete an internship project which is assessed by a report of no more than 15,000 words and a presentation. At the discretion of the Examiners, students may be required to attend an oral examination (see Section 9 – Assessment and Examination).

The weighting for the examination in Computational Biology is out of 12, divided as follows: each module is weighted at 1, and half modules at 0.5, meaning a total weighting of 8 for the taught modules. In Lent Term, 2 half-modules will be offered, weighted 0.5 each. Students can choose one or take both and choose which to submit. The general examination is weighted at 1. The internship project is weighted at a total of 3, the components of which are the project report, internship performance and oral presentation.

<table>
<thead>
<tr>
<th>Term</th>
<th>Module</th>
<th>Abbreviation</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Michaelmas</td>
<td>Genomics I</td>
<td>G1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Deep learning</td>
<td>DL</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Scientific programming</td>
<td>SP</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Genome Sequence Analysis (half module)</td>
<td>GSA</td>
<td>0.5</td>
</tr>
<tr>
<td>Lent</td>
<td>Genomics II</td>
<td>G2</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Cancer evolution</td>
<td>CE</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Population genetics analysis</td>
<td>PGA</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Biological Imaging Analysis (half module)</td>
<td>BI</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>BioDesign (half module)</td>
<td>BD</td>
<td>0.5</td>
</tr>
<tr>
<td>Easter</td>
<td>Systems Biology</td>
<td>SB</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>General Examination</td>
<td>EX</td>
<td>1</td>
</tr>
<tr>
<td>Summer</td>
<td>Internship Project</td>
<td>IP</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>TOTAL</td>
<td></td>
<td>12</td>
</tr>
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</table>
6. Taught Modules 2021-22

The following information provides a summary for each module offered in the current academic year. More detailed information will be provided by the module leader and lecturers as part of the course. Course materials and lecture notes will be uploaded by lecturers direct to the course Moodle for students to access.

Michaelmas Term

Genomics I (GI)
Dr Alastair Crisp (MRC-LMB, Cambridge)


Assessment: Three assignments, weighted 10:45:45. The first and third assignments will be individual and assessed by written report, while the second will be a group assignment assessed by presentations.

Scientific Programming (SP)

Prof. Stephen Eglen (DAMTP)


Assessment: Three individual assignments. There will be a feedback session for each assignment after it is marked.

Genome Sequence Analysis (GSA)

Dr Aylwyn Scally (Department of Genetics)

The course will introduce hidden Markov models, their properties, implementation and application to some important problems in bioinformatics and genomics. Topics: probabilistic models; Markov chains; hidden Markov models; inference with HMMs; the Viterbi algorithm; Baum-Welch training; sequence alignment.

Assessment: A practical assignment in which students are required to implement and apply a computational HMM to genome sequence data and interpret its output.

Theory and Practice of Deep Learning (DL)

Prof. Stephen Eglen (DAMTP)
This module (16 lectures) will comprise two parts. In part one, we will introduce the theory of deep learning (network architectures, unsupervised, supervised and reinforcement learning paradigms) and practical applications (training, visualisation, libraries). In part two, we will provide applications including convolutional networks for image analysis and classification and Long Short-Term Memories (LSTM) for text analysis. Where appropriate, contemporary applications within industry will be described.

**Assessment:** Two assignments, together comprising the whole of the mark for the course.

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**Lent Term**

**Genomics II (GII)**

Dr Oscar Rueda (Cancer Research UK Cambridge Institute).

Functional genomics looks at the dynamic aspects of how the genome functions within cells, particularly in the form of gene expression (transcription) and gene regulation. The Genomics II course surveys current methods for functional genomics using high-throughput technologies. We cover all stages of the experimental workflow: experimental design and planning, pre-processing and quality control, normalization, differential expression, clustering, classification and survival analysis. We present workflows for the processing, quantification, and downstream analysis of microarrays, RNA-seq, ChIP-seq and methylation data as well as approaches that seek to integrate different data types.

**Assessment:** Three assignments, weighted 30:30:40. The first two consist of an individual paper answering questions related to the lectures and practicals done during the course. The third assignment (40% of the final mark) has a group component (reproduce the analysis) and an individual component (extend the analysis). Students will be required to write a report and present the results in a 1 hour session.

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**Cancer Evolution (CE)**

Dr Florian Markowetz (Cancer Research UK Cambridge Institute)

Cancers evolve dynamically as clonal expansions supersede one another driven by shifting selective pressures, mutational processes, and disrupted cancer genes. These processes mark the genome, such that a cancer's life history is encrypted in the somatic mutations present. In this module we will discuss algorithms to recover features of cancer evolution from somatic mutations (copy number changes, single nucleotide variants and structural variants).

**Assessment:** Two written individual assignments, together comprising the whole of the mark for the course.

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**Population Genetic Analysis (PGA)**

Prof. Richard Durbin (Department of Genetics)

Introduction to population genetics and evolutionary theory: basic evolutionary forces, mutation, genetic drift, selection and recombination. Mutation-selection balance and genetic load. More complex evolutionary scenarios involving population structure. Inference of signatures of evolution
from intra and inter-specific sequence data. Models and methods of molecular phylogeny. Inference of demographic histories of natural populations using sequence data, with examples from human pre-history.

Assessment: Two written individual assignments, together comprising the whole of the mark for the course.

Choice of the following two half-Modules:

**Biological Imaging Analysis (BIA)**

Dr Fadwa Joud (Cancer Research UK Cambridge Institute)

This course will introduce basic concepts of biological imaging, and image analysis. The first part will focus on the physics and theory behind microscopy techniques and image formation, and common technique used in biological imaging. The second part will focus on the theory and techniques related to scientific image processing and analysis.

Major topics and content of this course includes: physics and theory of light and image formation, deconvolution, concepts of microscopy techniques, state-of-the-art imaging techniques, computational vision, digital image processing and analysis, image processing with ImageJ/Fiji, machine learning in image processing.

Assessment: One assignment.

**BioDesign (BD)**

Prof. Gos Micklem (DAMTP/ Department of Genetics) & Dr Hannah Earley (DAMTP)

This course will introduce you to practical techniques for biodesign. These have originated in the molecular techniques that have become ubiquitous in modern biology. Combined with our growing understanding of biology, we are now able to adapt existing biological systems within cells, or design non-living systems that make use of biological molecules.

The first part focuses on designing genetic circuits, the mainstay of traditional synthetic biology and a core technique when introducing novel functions into cells and organisms. The second part focuses on designing nucleic acids and proteins. Topics include directed evolution, and rational design techniques.

Assessment: one written individual assignment, comprising the whole of the mark for the course.

**Easter Term**

**Systems Biology (SB)**

Johan Paulsson (Harvard Systems Biology)


Assessment: One assignment that has an individual and group part
7. Internship

You will spend the last three and a half months of the course (during May to August) working on a research project based in a company, other academic institution (such as EMBL-EBI or the Wellcome Sanger Institute) or in another department of the University of Cambridge. The internship is a compulsory assessed component of the MPhil course and is weighted as three modules towards your final result (2.5 modules for the written report, 0.5 modules for the presentation). It is a very important part of the course as it provides students with the opportunity to undertake a piece of original research and to make contacts that may be useful when going on to do a PhD or to find work. Those who are looking for a job after the end of the course may find a company project particularly useful as this will provide you with a reference and relevant work experience.

We have found that it takes at least the first term for many students to know what field they wish to pursue. Lent Term is therefore normally when students start looking for and discussing potential projects with supervisors. You can of course start earlier and we strongly recommend that students use the Wednesday seminars (see Section 4 – Calendar) as an opportunity to familiarise themselves with current research and to start exploring potential project topics. We will have a meeting towards the end of Michaelmas Term to discuss internships.

Projects advertised by the Department
The Department will advertise a list of potential projects on the course Moodle. These will give you brief details of projects that have been submitted to us. You are encouraged to follow up projects that interest you directly with the named contact. Please remember that details of the company projects are often necessarily sketchy because they may involve commercially-sensitive material. We hope to be able to start publishing opportunities from the start of Lent Term and will add to the list as and when details are received from hosts/supervisors. You are advised to monitor the Moodle page for updates.

Arranging your own project
We encourage you to follow your own interests. If there is a particular area in which you wish to conduct research you should discuss it with potential supervisors directly. If you do decide that you want to arrange your own project, there is one proviso: you must discuss details of any self-directed project with one of the Course Directors first and you must have their approval before going on to make any definite arrangements. We are happy for students to try to arrange a project which is in the same field as their future PhD and for this period to be, informally, the start of their doctoral study though you should note that the same material cannot be submitted for two degrees at the University and thus MPhil project work cannot form part of the eventual PhD submission.

Please remember that when you are contacting a company or university that you are representing not only yourself but the course and the University of Cambridge. It is absolutely essential that any contact is made in a professional, polite and business-like manner. If you are unsure about the best way to contact a company or institution then please ask for advice before proceeding.

Please note: the University and Department will not agree to sign ‘non-disclosure’ agreements (NDAs) with organisations for MPhil internships projects. Where students are asked to sign any such agreement we strongly urge you to renegotiate, as an NDA may negatively impact upon the work that you will be able to submit for examination and can lead to delays both in organising and starting the project and also in submitting the report. In these instances, please discuss the matter with a Course Director in advance of agreeing to take part in a project.
Confirmation of Internship Project
Whether you decide to take up a project advertised by the Department or to organise your own, you are required to confirm internship details by emailing the Course Administrator compbiomphil@maths.cam.ac.uk your project title, a short outline, your supervisor’s name and contact details no later than Friday 06 May 2022. Details of final projects will be posted on Moodle. Project Supervisors should be aware of the commitments (as set out in section 11).

Written Report
The exact nature of this report will vary according to your internship. It should take the format of a dissertation, and as a guide should be structured as follows:

- Chapter 1 - introduction/aims/literature review
- Chapter 2 - your work (possibly broken down into more than one chapter).
- Chapter 3 - conclusions / future work
- References
- Appendices - for any extra material (e.g. code snippets, detailed derivations) that you wish to be included for future reference, rather than necessarily to be read by the examiner.

The report should be no more than 15,000 words, which means that your report should be no more than around 30 pages (at 500 words/page, but that assumes no figures). This word limit excludes the bibliography and appendices, but includes everything else, including the figure legends and any glossary. Thus, figure legends must not be included as images.

Please note this is an upper word limit — writing a short clear report is much better than a long report padded with text to reach the upper word limit. Please write the word count on the front page of the report.

Declaration of Authorship
In the preface to your report you must include a declaration of authorship, signed and dated as follows:

I hereby declare that this dissertation entitled [Enter Your Project Title] is the result of my own work and includes nothing which is the outcome of work done in collaboration except as declared in the Preface and specified in the text. I further state that no substantial part of this dissertation has already been submitted, or, is being concurrently submitted for any such degree, diploma or other qualification at the University of Cambridge or any other University or similar institution except as declared in the Preface and specified in the text. I confirm that I have read and understood the Faculty of Mathematics Guidelines on Plagiarism and the University-wide Statement on Plagiarism.

This declaration is not included in the word count.

Submission deadline
The deadline for submission of your Internship Report is no later than 4pm on Wednesday 10 August 2022. You must submit an electronic copy of your report by this date and time via Moodle (see Section 9).

Presentation
All students are required to give a presentation on their project research. Presentations will take place on Wednesday 17 August to Friday 19 August 2022. A detailed timetable will be provided closer to the time. Given the number of presentations involved and the need to co-ordinate the timetable with the availability of the examiners, it is not possible for students to select their own time slots. Students are therefore advised to make sure that they are available all day on these dates until they are notified of the final arrangements. Students are welcome to attend each other’s presentations if they so wish and are encouraged to support each other in this way.

It is expected that students will give their presentation in person. If you are unable to attend in person, you should contact the Course Administrator at the earliest opportunity. Permission from the Course Director must be given for the presentation to be undertaken by remote means. If this proves necessary, students must take responsibility for ensuring that appropriate arrangements are made. No allowances or dispensations will be made. We strongly advise students to make every effort to make their presentation in person. If, due to restrictions imposed by Covid-19, it proves impossible for live presentations to take place students will be informed of alternative arrangements.

Each presentation is expected to last 20–25 minutes, with five minutes for questions. You will be expected to keep to time. If you are still talking at 25 minutes, you will be asked to stop immediately. A timer is usually available to help you keep aware of the time elapsed. We strongly advise that you arrange to give several practice talks (e.g. to your colleagues, or host lab). Experience has shown that people who practice give better talks.

For your presentation, you will be required to submit your electronic files (PPT/PDF/Keynote) by Monday 15 August 2022. Submission is via Moodle (see Section 9).

8. Unfair means, plagiarism and collusion

The University and Department take very seriously the use of unfair means, plagiarism and/or unauthorised collusion in work submitted for formal assessment. All students are expected to be familiar with and abide by the Faculty and University guidance on plagiarism and academic misconduct. The Faculty’s guidance on plagiarism can be found online at www.maths.cam.ac.uk/facultyboard/plagiarism/. The University’s guidance on plagiarism, along with guidance on study skills and good academic practice is available at http://www.admin.cam.ac.uk/univ/plagiarism/. Students should be aware that the University subscribes to the Turnitin UK text-screening software, and that under University policy any work submitted for assessment can be submitted to this software for screening (https://www.plagiarism.admin.cam.ac.uk/turnitin-uk). MPhil students are required to complete a declaration on the course Moodle at the start of the academic year stating that they have read relevant guidance and understand this policy.

9. Assessment and Examination

Marking Scheme

We will use the following marking scales to evaluate your work on each module:

<table>
<thead>
<tr>
<th>Grade</th>
<th>75–100%</th>
<th>Excellent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade B</td>
<td>65–74%</td>
<td>Good</td>
</tr>
<tr>
<td>Grade C</td>
<td>60–64%</td>
<td>Satisfactory</td>
</tr>
</tbody>
</table>
Your final mark will be based on your average score from all the modules you have taken (including the three modules which are awarded for the project). To pass the course, your average score must be 60% or over. Those scoring at least 75% will be awarded a distinction which must include a score of 60% or over in the examination.

Managing your workload
If you are feeling overloaded and cannot hand in your coursework on time then please do not panic. We would prefer you to hand in work that is incomplete rather than failing to meet the deadline. This may seem harsh but we have found that giving general extensions to deadlines can compound the feeling of being overloaded because other coursework deadlines then start to overlap. When a particular task proves difficult for many students we will take this into account when marking the work. If there is a general sense of being overloaded or other difficulties with coursework then please ask your Course Representative to speak to a Course Director. You should also consult your College Graduate Tutor. You may find that particular elements of the course are difficult. Please let us know if this is the case.

Late Submission and Extensions
The deadlines set for the submission of assessed work (including the internship report and presentation) should be treated as firm. Any work that is submitted after the specified deadline without clear mitigating circumstances will not be marked. You will be awarded zero for the piece of work in question.

Students may request a formal extension to deadlines on the basis of illness or serious personal grounds. To request a formal extension, students should in the first instance speak with their College Tutor. If a student needs to submit a formal request, they should contact the Course Administrator compbiomphil@maths.cam.ac.uk Whenever possible, the above procedure must be carried out before the original submission date has passed.

Submission of assessed work to Moodle
Each piece of coursework must be submitted in the format specified by the lecturer setting the work. Presentation of your work is important and will be taken into account when marking your assignments. Please keep a reference copy of all work submitted for assessment until after the examinations process has been completed.

Unless otherwise stated, all coursework, including the internship report and presentation, must be submitted for marking via Moodle. You will be given access to the site at the start of the year and will be able to log-in using your Raven password. Assignment details are added to Moodle throughout the course of the year as they are needed, so do not be concerned if you cannot see all the assignments straight away.

Please note that when you submit your work Moodle will automatically note the time of submission. If you submit work before the deadline, you can resubmit work to the system (e.g. if you upload the wrong file or you want to amend a piece of work). If you experience any technical difficulties in using the site or cannot access it please contact the Course Administrator.

Unless explicitly requested otherwise, upload only one file, which should be a PDF. Please do not scan in handwritten notes and submit them as a PDF. They will not be accepted. In previous years, some users of Microsoft Word on Windows submitted PDFs that were not printable from Unix machines—this is normally a problem with the PDF not including the fonts that you were using on your machine. We strongly encourage the use of LaTeX, as this generates high-quality portable documents.
Anonymous marking
Where possible work is marked anonymously. Before submitting each piece of work, please make sure that you have not included in the file or file name any personal identifies (e.g. your name or CRSid). Instead, please use your personal assignment number and the abbreviated assignment name and number. For example, if user ‘MCB5466’ was submitting Functional Genomics Assignment 1, their file would be called: MCB5466_fga1.pdf. You will receive your assignment number via email from the Course Administrator early in Michaelmas term.

Written Examination
There will be a two-hour written examination at the end of the taught part of the course. You will be advised by the end of Lent term which modules will be examined. The exam will be held on Friday 13 May 2022. If appropriate, you are allowed a calculator in the exam room, but it must be an approved University model. Approved models are CASIO fx 991 (any version), CASIO fx 115 (any version) and CASIO fx 570 (any version). Before the examination you must have your calculator marked as approved by the Mathematics Undergraduate Office (B1.28). Only calculators marked as approved in advance will be permitted in the exam hall.

If you require exam access arrangements to be put in place, you should discuss the circumstances with your College Tutor well in advance of the examination. Further advice is available here: https://www.cambridgestudents.cam.ac.uk/your-course/examinations/graduate-exam-information/examination-access-arrangements/examination

Oral examinations (viva voce)
The regulations for the MPhil in Computational Biology permit the examiners to call any candidate for the degree to an oral examination. Usually the Examiners will only request an oral examination where a candidate is at risk of failing the degree on the basis of his/her provisional marks. The provisional date for oral examinations is Friday 19 August 2022. Students are expected to be available in Cambridge on this date and to attend an oral at short notice.

Provisional marks and feedback
In order for students to know how they are progressing it has been agreed that individual assignment marks may be released as they are received. Marks will be released by the Course Administrator via Moodle. Students should note that provisional marks are subject to change and may be adjusted (either up or down) as part of the ongoing examinations process. They are provided as an indication of progress only. Any other form of feedback on assignments is provided at the discretion of the examiner or lecturer concerned.

No marks are confirmed until they have been formally approved by the Degree Committee at a meeting at the end of September and no formal confirmation of the outcome can be provided prior to this. Students who require a letter confirming provisional results prior to the Degree Committee (e.g. for a PhD application, or future employer) can request one from the Course Administrator.

Notification of degree and confirmation of final marks
At the beginning of September, the Examiners will meet to agree the final marks for each candidate. The Examiners recommend to the Degree Committee the final marks, and whether or not each candidate has met the requirements of the degree for which they are being examined. The Degree Committee will review the recommendations and will ultimately confirm the approval or non-approval of the degree in each case.

Following the Degree Committee meeting a statement of final confirmed marks, together with notification concerning the overall outcome of the examination will be sent individually to candidates by email. Whilst the Department seeks to notify students of the outcome at the earliest possible
opportunity candidates should not expect to receive their results until mid-October following the end of their course. Students who require a hard copy of their award letter may request one from the Course Administrator.

**Graduation, Degree Certificates and Official University transcripts**

Colleges are responsible for organising graduation and the Department has no role to play – candidates should contact their College Tutorial Office to make the necessary arrangements. The Student Registry is responsible for the production of formal University transcripts and Degree Certificates. See [www.admin.cam.ac.uk/students/studentregistry/exams/after/degreeapproval.html](http://www.admin.cam.ac.uk/students/studentregistry/exams/after/degreeapproval.html) for further information.

**Continuation to the PhD**

It is not possible to provide formal confirmation of your degree result or marks prior to the Degree Committee meeting. If you have been made an offer to continue to undertake a PhD at Cambridge either in the Department or elsewhere, your offer will, as a minimum, require evidence of completion of the MPhil degree. The Degree Committee will notify the Postgraduate Admissions Office of your completion immediately after the September meeting in order for this condition to be fulfilled. If you are required to pass with a particular overall mark, the Degree Committee will also provide this information as appropriate. Please do speak to the Course Administrator for further advice if you need to.

**Review of Examination results**

Examinations are covered by strict regulations and students **should not, under any circumstances, seek to discuss examination results with the Examiners.** The University has a standard procedure for the Review of Examination Results for Graduate Students, details of which can be found at [https://www.studentcomplaints.admin.cam.ac.uk/examination-reviews](https://www.studentcomplaints.admin.cam.ac.uk/examination-reviews). Students who are considering requesting a review under this procedure should discuss the matter with their College Tutor before proceeding. You should note that any investigation by the University will usually confine itself to seeing that the examiners acted correctly (for example that all the marks you received were entered into the mark book) and not try to second guess the examiners by re-marking your papers.

**Data Protection**

To meet the University’s obligations under the data protection legislation, the Faculty deals with data relating to individuals and their examination marks as follows:

- Final marks for each module, the written examination and the internship project are sent routinely to individual candidates after the September Degree Committee. The final examination mark book and individual module mark books are kept indefinitely by the Graduate Office.
- Scripts, assignments and internship project submissions are kept, in line with the University policy, for six months following the examinations (in case of appeals). Scripts are then destroyed; and local copies of coursework and internship project submissions deleted. Assessor feedback reports and comments are also retained for six months where available.
- Neither the Data Protection Act nor the Freedom of Information Act entitle candidates to have access to their examination scripts. Data appearing on examination scripts is technically available on application to the University Information Compliance Officer. However, such data consists only of the examiner’s ticks, crosses, underlines, etc. and mark subtotals and totals.

It is University policy to publish the names of all those awarded an MPhil degree in the University Reporter. Students who do not wish to have their name included must ‘opt-out’ via CamSIS self-service by 01 September.
10. Resolving difficulties

Occasionally students may experience problems or difficulties during the course of the MPhil. Such difficulties can take very different forms. The guidance below is provided to help you to identify available support and advice should you encounter difficulties. Students are encouraged to raise any difficulties that they may have at the earliest opportunity. The sooner that we know about problems, the sooner they can be addressed.

Problems with particular modules
If you are experiencing difficulty with a particular module, you are encouraged to contact the relevant lecturer in the first instance. He or she may be able to clarify the material, or provide you with additional literature. You may also find it helps to talk to other students on the course. If there are issues with a module that cannot be resolved through discussion with lecturers you may wish to consult the Module Leader or a Course Director (see Section 2 - Key Contacts).

Problems with the course in general
Sometimes a student may find that the course is not right for them. If you are at all concerned that this is the case you should consult a Course Director at the earliest opportunity. You may also wish to consult your College Tutor or Graduate Tutor at this time. It is important to note that you will become liable for payment of fees from day 21 of every term, even if you withdraw before the end of term.

Personal difficulties
Occasionally students encounter personal difficulties (e.g. medical or financial) during the course of their studies. If you encounter such personal difficulties, you should inform your College Tutor as soon as possible. They can advise you on your options and on any formal processes or procedures that may apply. Your College may also be able to provide you with other support (e.g. access to counselling services) and will have experience of dealing with many different issues. In addition, you should keep the Course Director informed. The University Student Wellbeing website has links to many useful resources (https://www.studentwellbeing.admin.cam.ac.uk/).

Medical problems and disabilities
Students with medical problems or disabilities are strongly advised to discuss such problems with their College, who will offer advice and support for medical problems and disabilities. There is a University Disability Resource Centre (www.admin.cam.ac.uk/univ/disability/).

Equality and Diversity
The Mathematics Faculty is committed to creating and maintaining an environment for work, learning and research which is free from discrimination. It is expected that all members of the Mathematics Faculty (staff and students) will treat each other with respect irrespective of, for example, race, disability, religion, gender or sexual orientation. If you have concerns about any such matter, you are encouraged to approach, in confidence either one of the Faculty Equality and Diversity contacts: Orsola Rath-Spivack (room G0.09, email or100@cam.ac.uk); or Stephen Eglen (room G0.11, email sje30@cam.ac.uk); or your College Tutor.

Informal advice
If at any stage you are uncertain of the best approach to dealing with problems, please do approach the Course Administrator (combiomphil@maths.cam.ac.uk) or the Faculty’s Postgraduate Office Administrator (grad-administrator@maths.cam.ac.uk) on an informal basis. The Postgraduate Office is shared by a number of administrators, so if you would prefer to meet in a more private setting, just let us know.
University procedures
Where local resolution is not possible, the University has procedures for managing a range of student complaints (https://www.studentcomplaints.admin.cam.ac.uk/).
11. Guide for Internship Supervisors and Examiners

Potential supervisors are encouraged to contact the Course Administrator with details of potential projects. The nature of these projects can be quite diverse, as long as computational modelling/analysis of biological systems forms a central part of the project. Potential supervisors are encouraged to give a seminar to the students about their work.

We typically require no more than a 1/2 page description of the project and try to keep administration to a minimum.

We do however require several commitments from supervisors:

1. Supervisors are expected to provide the students with all the resources required to complete the project. (Students will however have access to a computer server based in the Mathematics Department.)

2. We recommend at least weekly meetings to ensure that the student is making suitable progress on the project.

3. Co-supervision of the project, e.g. with senior postdocs in a group, is allowed.

4. Internship project reports will be marked independently by two assessors: the project supervisor and an examiner. Each assessor will write a short (usually 1/2 to 1 page) report on the project, commenting where appropriate on the following elements:
   - Scientific approach to problem
   - Results
   - Overall quality of explanation
   - Style and presentation

   An overall grade should be provided according to the University-wide MPhil marking scheme:
   - 75% and over for a distinction
   - 65-74% for strong reports
   - 60-64% for satisfactory reports
   - A mark of under 60% therefore indicates a fail

   If the discrepancy between two assessors’ marks is less than 10%, the two marks will be averaged. Otherwise, the two assessors will be asked to discuss the reports, and possibly adjust their marks. If no agreement can be reached, another assessor will be asked to adjudicate. Please note that reports will be made available to students after marking.

Please note: The University and Department will not agree to sign ‘non-disclosure’ agreements (NDAs) with organisations for MPhil internships projects, as an NDA may negatively impact upon the work that students are able to submit for examination and can lead to delays both in organising and starting projects as well as the submission of reports.

Assessment

Students will be assessed in two ways:

1. A written report of the project (worth 2.5 modules)
2. An oral presentation (worth 0.5 modules)

**Written report**

The exact nature of this report will vary according to the internship, but it should take the format of a dissertation, normally with the following structure:

- Chapter 1 - introduction/aims/literature review
- Chapter 2 - the work (possibly broken down into more than one chapter).
- Chapter 3 - conclusions / future work
- References
- Appendices - for any extra material (e.g. code snippets, detailed derivations) that can be included for future reference, rather than necessarily to be read by the examiner.

The report should be no more than 15,000 words; as a guide it should be no more than around 36 pages of text (at 500 words/page, but that assumes no figures). This word limit excludes the bibliography and appendix and includes everything else, including the figure legends and glossary. Please note this is an upper word limit - writing a short, clear report is better than a long report padded with text to reach the upper word limit. Students must write the word count on the front page of the report.

Examples of reports from previous years are available on Moodle or from the Course Administrator.

**Oral presentation**

Presentation files (PPT/PDF/Keynote) are submitted to Moodle and uploaded to a group laptop that is used for all presentations; students are not normally permitted to use their own laptops for presentations. Each talk is expected to last 20-25 minutes, with five minutes for questions. Students are expected to keep to time, as there are many presentations in each day. If any students go over 25 minutes, they will be asked to stop immediately. We strongly advise that students arrange to give several practice talks (e.g. to colleagues, or host lab) as experience has shown that people who practice give better talks. Students are also encouraged to attend the talks of their colleagues.

Presentations are given in person, unless pandemic regulations require them to be made remotely (if allowed by the Faculty of Mathematics) via Zoom.

**Key dates and contacts for 2021-22**

The key dates for students are:

- Project start: 16 May 2022
- Report submission: 10 August 2022, 16:00 BST
- Presentation submission: 15 August 2022, 16:00 BST
- Presentations: 17-19 August 2022 (times TBC)

Project supervisors and examiners will receive reports for grading on 11th August; evaluations are required by 16th August 2022. If necessary, project supervisors and examiners should be available to discuss their evaluations 17th August 2022.
Please email the Course Administrator compbiomphil@maths.cam.ac.uk with any queries regarding internships.

12. Safety and Security


It is not anticipated at present that MPhil students will access the CMS buildings unless they are attending a scheduled event, such as in-person examples classes. COVID-19 specific health and safety guidance for these occasions will be provided as part of the Centre for Mathematical Sciences’ COVID-19 protocol, the most up-to-date version of which is available at https://www.maths.cam.ac.uk/internal/versioned_file/covid19/return-to-cms/current.

Students may also come to the site to use the Betty and Gordon Moore Library’s Zero-Contact Services (see Section 14 - Library). Access to the CMS will be reviewed at regular intervals throughout the academic year, and students will be notified should further access privileges become available. Some of the information below is provided with this possibility in mind.

Access and Security at CMS

The main doors into Central Core are normally unlocked on weekdays between 8.20am-5.30pm, and on Saturdays from 8.30am-5.00pm in term time. Magnetically locked doors should not be propped open, or the alarm will sound. You need a University Card to unlock exterior doors and interior doors outside core hours. At present MPhil students will not be provided with out-of-hours access to the building. If this should change, you will be notified.

The University is not insured for theft of, or damage to, your personal property while you are on University premises, so if you bring a computer with you, you should take out insurance for it. The University is insured for accidental personal injury to staff, students and visitors while they are on University premises, but only where the accident was due to fault on the University’s part.

Fire Safety

Familiarise yourself with entrances, emergency exits and fire-alarm assembly points. In the event of the fire alarm sounding, leave the building by the nearest exit. Do not re-enter the building, even if the alarm has been silenced, until advised to do so.

The external doors do not unlock automatically for security reasons; exit in the normal way. Assembly points are shown on posted site plans and Fire Wardens will direct you. Do not attempt to enter another building if the alarm is sounding there also.

In an emergency, and in the event of doors failing to open, break the glass in the green “break glass” boxes located alongside each door. Please report this to Reception/Security, as the doors will remain unlocked until the glass is replaced.

Fire alarms are tested in each building every Wednesday morning between 08:30 and 09:00. The alarm will sound for only a few seconds and for this brief period only it can be ignored; if the alarm continues to sound please evacuate the building. Fire Safety training is provided at CMS in Michaelmas term and you are encouraged to attend.

First Aid
First Aiders may be summoned via Reception (65000). First Aid boxes are held in each common room in one of the cupboards and a First Aid room is located in the lower ground floor of Pavilion F. There is an automated external defibrillator (AED) sited on the buttress adjacent to Reception leading to the entrance to Pavilion G common room.

If an accident occurs outside normal office hours, telephone Security on 31818. The emergency number for FIRE, POLICE or AMBULANCE is via Security on 101, or 1999 on any network phone.

All incidents must be reported to Reception, and a report form completed. Completed forms should be submitted to the Department Safety Officer as appropriate.

Safety

It is important that all members of the Department staff observe safe working practices and inform the appropriate Safety Officer or the relevant Departmental Administrator, if they see anything giving cause for concern. The CMS safety policy is available at http://www.cms.cam.ac.uk/site-safety-policy.

All accidents or near misses should be reported, whether or not they involve personal injury. Accident report forms are available from Reception. Completed forms should be submitted to the Department Safety Officer as appropriate.

Site Officers are:

- CMS site: CMS Facilities Manager cmsfacilitiesmanager@maths.cam.ac.uk
- DAMTP: Hannah Fox, Departmental Administrator (37863) damtpsec@maths.cam.ac.uk
- DPMMS: Vivien Gruar, Departmental Administrator (37996) dpmmssec@dpmms.cam.ac.uk

Covid 19 Risk Management

The University offers a comprehensive set of guidance to students as part of its ‘Stay Safe Cambridge Uni’ campaign, which can be accessed at https://www.cam.ac.uk/coronavirus/stay-safe-cambridge-uni.

The University offers a weekly asymptomatic screening programme for COVID-19 for students in College accommodation. More information on this programme is available from the aforementioned webpage, which students are strongly encouraged to consult regularly for updates.

All members of the collegiate University are expected to abide by the principles of the ‘Covid community statement’ at https://www.cam.ac.uk/coronavirus/news/covid-community-statement. Specifically, each member of the collegiate University has a responsibility to

- behave in a way that minimises the risk of infection;
- treat each other with dignity and respect;
- keep up to date with public health guidance and follow it at all times.

In particular, students must follow their College’s guidance, the rules of each University and College building they enter, and the advice given by NHS Test and Trace.

Smoking
Smoking, including electronic cigarettes and vapour pipes, is not allowed in any of the CMS buildings and is actively discouraged near entrances or automatic vents and windows. Ashtrays are provided beneath the cycle shelters around the perimeter of the site and the circular seating areas outside the main entrance to Central Core.

**Recycling**

CMS has one of the best recycling rates within the University with approximately 2/3 of waste recycled; please help us maintain and better this by thinking carefully about how you should dispose of waste and select the correct waste stream. Most waste may be recyclable or compostable so please do take the trouble to carefully segregate different items. Minimising our impact on the environment is increasingly important and it costs the University twice as much to dispose of general waste as it does for mixed recyclables waste.

**13. Departmental Information**

**Bicycles**

There are cycle racks at several points around the CMS site - please use these. A good lock is a necessity! Please take care not to lock your cycle to neighbouring cycles. Cycles are not allowed inside the buildings or inside the courtyard between the Gatehouse and Pavilion A.

**Cars**

Unless you are registered disabled (and even then a place cannot be guaranteed) you will not be allocated parking.

**Disabled Students**

The building was designed for universal access but please contact the CMS Facilities Manager cmsfacilitiesmanager@maths.cam.ac.uk for advice on your detailed access requirements. For the full range of support available via the Disability Resource Centre, please see their web page at [http://www.admin.cam.ac.uk/univ/disability](http://www.admin.cam.ac.uk/univ/disability) or contact your department Disability Liaison Officer (DAMTP: Hannah Fox (37863)).

**Mail Services**

A University Messenger Service (UMS) circulates between the University’s Departments and Colleges. Mail is collected by the UMS from CMS daily at 10:00. There are no mail services at weekends. If necessary any hardcopy correspondence will be sent to you at your college.

**Seminars**

Lists of forthcoming seminars within DAMTP, DPMMS and the nearby Isaac Newton Institute for Mathematical Sciences can be found on the relevant Department web pages. See also [http://www.talks.cam.ac.uk/](http://www.talks.cam.ac.uk/)

**Women in Maths**

The women mathematicians at all levels, from Part III students to University Officers, meet in an informal group several times a year, usually at lunchtime. For support, advice or just a chat, contact
Perla Sousi (ps422) or Carola Schoenlieb (cbs31). You may also want to look at the Faculty’s Women in Maths pages which link on to the Athena Swan pages:

https://www.maths.cam.ac.uk/internal/faculty/equality-and-diversity/women-in-f19mathematics/women-mathematics

14. Library

The Betty and Gordon Moore Library, located on the CMS site, is the principal STEM library of the University holding collections across the whole of STEM with the exception of Clinical Sciences (which are held at the Medical Library). The Library holds extensive collections in Mathematics and the Physical Sciences. Detailed information about accessing library services is available from http://moore.libraries.cam.ac.uk/.

Other libraries in Cambridge may be relevant to postgraduate students. For example, the University Library in West Road holds a large collection of older mathematical material. A complete listing of Cambridge libraries may be found at https://www.libraries.cam.ac.uk/libraries-directory/libraries-a-z

The library discovery system is iDiscover (http://idiscover.lib.cam.ac.uk). Use this to search the University’s libraries print and online collections using a single search. You can also manage your patron account through iDiscover, check your loans, pay fines online etc.

There are many specialist print and online resources to support mathematical sciences in Cambridge, which are detailed in the Maths LibGuide at https://libguides.cam.ac.uk/maths.

You may find that you have to search existing academic literature for your work. The Betty & Gordon Moore Library’s Research Support team will be happy to help you do this. Feel free to get in touch with them to book an appointment at moore-rso@lib.cam.ac.uk. The team also offers useful training sessions on a range of topics, which are advertised to all mathematics students throughout the year.

15. Email and Computing

Email and Computing Accounts

Students will be issued with a University email account and a Desktop Services computing account by the University Information Services (UIS). Students who are new to Cambridge are able to retrieve passwords for these accounts in advance of arrival in Cambridge as part of the University’s Student Registration process. Students who have already studied at Cambridge should be able to access their previous account. Accounts that have been closed down during the summer vacation by UIS can be re-activated upon request.

Cohort mailing lists

The Faculty uses student mailing lists for issuing important information to the entire student body, or specific student groups. They are moderated to prevent students receiving unofficial email and/or junk email. Most students will have no need to send email to these lists, and should do so only if information is of genuine academic interest to all students.
Noticeboard mailing lists

The Faculty also operates email lists for students who wish to receive information about careers, courses or jobs via a system called ‘noticeboard’. All new students are added to this mailing list at the start of their course. If you wish to opt out of the ‘noticeboard’ you are free to do so.

Laptops/Wifi Devices

You can connect to the Internet using Wifi on most of the site; further information on wireless connections is available at https://help.uis.cam.ac.uk/service/wi-fi

Computing Help

Help with computing issues at CMS can be found here: https://www.maths.cam.ac.uk/computing/troubleshooting. Please email requests for computing assistance to: help@maths.cam.ac.uk.

Computing Courses

The University Information Service offers a wide range of training courses which are open to members of the University. See the online training timetable and booking facility for details

(https://training.cam.ac.uk/ucs/).

Please note that non-attendance (failing to attend without cancelling your booking) will result in a penalty charge. The Department will refuse to pay any administrative penalty charges, so it will be charged to you. To avoid this charge, please ensure that you sign the attendance register at every course or cancel the booking as soon as possible if you are not able to attend the course.

Computing Rules

Users of Faculty computing facilities are subject to some rules which are published by UIS at https://help.uis.cam.ac.uk/policies. In particular your attention is drawn to the following:

Desktop Services accounts are issued for use by a single individual. You must not log in using another person’s login name, or allow any other person to access facilities using your login name.

Computer hardware should be used carefully and left in a condition fit for others to use.

Information belonging to other users is confidential. You must not read, access, or modify any file not owned by you without the explicit permission of the owner. When a file is not protected (i.e. read or write access by others is allowed), it should not be assumed that permission to copy or modify the file is granted.

Proprietary software must be used correctly in accordance with licensing conditions and must not be copied or modified. If you install any proprietary software, including shareware, on Part III computers, you must hold a valid licence.

Users must not access any material on the internet or other facility which:

(a) is libellous, racist, obscene or indecent;

(b) is likely or designed to cause offence, inconvenience or anxiety to others;
(c) infringes copyright law or any other law (images and sound particularly);

(d) is of a character likely to bring the University or Faculty of Mathematics into disrepute.

If you encounter such material by accident, you are advised to stop viewing immediately and avoid accessing it again.

If you encounter such material by accident, you are advised to stop viewing immediately and avoid accessing it again.