Start of Year Meeting
Senior Honours

2.00pm: Welcome! Jamie Cole

2.15pm: Introduction to the Year Paul Clegg

2.45pm: Careers talk Susan Bird

3.00pm: *** Take a Break***

3.15pm: Senior Honours projects Bob Mann
Start of Year Meeting
Senior Honours

BSc & MPhys
Astrophysics, Computational Physics, Mathematical Physics, Physics, Physics with Meteorology, Physics and Music, Theoretical Physics
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Senior Honours and Integrated Masters

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The Senior Honours Year

(1) Allows specialization
   - Attend too many courses initially
   - Talk to friends
   - Drop courses before 7th October

(2) Encourages independence
   - Time management!
   - Don’t spend too long on your projects
Programme Structure

Senior Honours and Integrated Masters Information

Created by Siobhan MacInnes, last modified on Sep 07, 2015

This Programme Guide contains information on the Senior Honours and Integrated Masters years of the BSc and MPhys Single Honours Degree Programmes offered by the School of Physics and Astronomy for students entering their Senior Honours year in September 2016. Degree structure and regulations are also detailed for MPhys Degree Programmes, an additional supplementary guide will be issued at the start of the Integrated Masters year with updated Course details, including the timetable appropriate for the 2015/16 session.

BSc Degree Programmes - Senior Honours Year
- Astrophysics
- Computational Physics

MPhys Degree Programmes - Senior Honours & Integrated Masters Years
- Astrophysics
Global Regulations

- Must register for (and submit for assessment) exactly 120 points of courses in each year.
- You cannot repeat or resubmit any course, or part of course.
- Masters degree Honours programmes (JH+SH+IM) must contain:
  - 360 points at Levels 9, 10 and 11
  - at least 120 points at level 11; with
  - not more than 120 points at level 9.
- BSc programmes (JH+SH) must contain
  - 240 points at Levels 9, 10 and 11, with
  - not more than 120 points at level 9.
- BSc programmes may contain a maximum of one 20-point Senior Honours projects and/or one 20-point Education placement.
- MPhys programmes may contain a maximum of one 20-point Senior Honours projects – this is a hard rule.
- MPhys programmes must contain the 40 point MPhys Project and 10 point MPhys Project Presentation – both to be taken in IM (5th) year.
Progression Regulations

To be permitted to progress to the next year of your programme, OR to graduate, you **must** pass courses worth **120 points per year**. If you fall narrowly short of this requirement, the Board of Examiners (BoE) has the discretionary power to allow you to progress (or to graduate if in the final year) if you:

- Obtain a mark of at **least 40%** as a weighted average of all courses assessed in that year;
- Obtain a **pass mark** of 40% in each of a set courses totalling **at least 80 points**.

If you satisfy the above, and the BoE allows you to progress, then any courses failed (having a mark < 40%) will be credited: known as *credits awarded on aggregation (CAA)*, **BUT** the **original mark** will be used for Honours assessment and will appear on your transcript.
Before making your course choices, please ensure you have met your Personal Tutor and consulted the Programme Guide: http://www.ph.ed.ac.uk/progguides

Compulsory courses (60 Credits)

There are 5 compulsory courses

**Full Year**

- Team Review Project
  - 10 Credits • Level 10 • NV

**Semester 1**

- Relativity, Nuclear and Particle Physics
  - 20 Credits • Level 10

- Data Acquisition and Handling
  - 10 Credits • Level 10 • NV

- Introduction to Condensed Matter Physics
  - 10 Credits • Level 10 • NV

**Semester 2**

- Physics Skills
  - 10 Credits • Level 10

Add to my courses
Honours Assessment

BSc Programmes: require a total of 240 points, with no more than 120 points at Level 9

- Junior Honours year courses weighted at 50%
- Senior Honours year courses weighted at 50%

MPhys Programmes: require a total of 360 points, with no more than 120 points at Level 9, and at least 120 points at Level 11.

- Junior Honours year courses weighted at 20%
- Senior Honours year courses weighted at 40%
- Integrated Masters year courses weighted at 40%

Final classification is based on the Common Marking Scale
Course Registration

You can change your course registrations as follows:

- Semester 1 courses: until Friday 7\textsuperscript{th} October 2016
- Semester 2 courses: until Friday 27\textsuperscript{th} January 2017

Between these two dates you can modify (some of) your choices subject to:

- Examination timetable constraints (as set by Registry)
- You cannot withdraw from a course after it has been assessed (note that some courses are examined in December)

You are strongly recommended not to change to a new course after the end of week 2

All course changes must be made via your Personal Tutor, Check your choices via MyEd – it’s your responsibility.
Changing Programme

**BSc ➔ MPhys:** during Semester 1 **ONLY**, and provided:
- Your Junior Honours results are consistent with the MPhys entry condition (> 55% average and failed no more than 20 points);
- Your Semester 1 courses are consistent with the MPhys DPT.

**MPhys ➔ BSc:** during Semester 1, provided:
- Your semester 1 courses are consistent with the BSc DPT

**MPhys ➔ BSc:** after end of Semester 1, subject to approval of HoS, provided:
- Course choices are consistent with BSc DPT - see Group/Team exception
- You ask at least 7 Days before Board of Examiners meeting currently scheduled for early June 2017.

Consult your PT or Programme Coordinator first!
Lectures & Labs

Lecture-based courses:

- Timetabled for 2 hours per week (16-22 meetings)
- Large courses often have additional workshops; others have tutorials/workshops.
- Some courses have practical components, with a reduced number of lectures.
- Exams are 2 hours in December or April/May plus any coursework component submitted during course.
- Note that some courses from other Schools have exams in December,

  e.g. Fluid Mechanics 4 (Mech Eng), Atmospheric Dynamics, Atmospheric Physics, Intro. to 3D Climate Modelling

Checkpoint-based courses:

- Data Acquisition and Handling
- Computational courses: Booked CP-Lab time (2 hours per week), with some time allocated to lectures.
- Accessed by checkpoints/mini-projects, and for MVP an examination.
Senior Honours Projects (Physics and Astronomy):
20-point experimental, computational or meteorology projects taken in Senior Honours year.
Organiser: Bob Mann

Science Education Placement: Physics:
20-point project, based in secondary schools.
Organiser: Judy Hardy

MPhys Project:
40-point project, taken in IM year

MPhys Project Presentation:
10-point course, taken in IM year

MPhys Project Organiser: Richard Blythe
Group and Team Projects

Course organizer: Steve Playfer

Course meeting: Wednesday 28th September
2pm Lecture Theatre C

More details: https://www.wiki.ed.ac.uk/pages/viewpage.action?pageId=221468445
Skills Courses

**Skills Courses:** synoptic 10-point Courses with examination but no lectures and no formal teaching hours: questions based on material from common courses in first three years

**Mathematics Skills:** optional for Mathematical/Theoretical Physics students in Senior Honours year.
Workshops: 23rd & 30th November (2pm – 4pm in room 6207)
Examination in December. Organiser: Roger Horsley

**Physics Skills:** taken by all Physics 4 students (except MP). Workshops: Weds (TBC).
Examination in April / May. Organiser: Jamie Cole

Physics skills courses are *optional* for Mathematical Physics; maximum of one per year.
Christmas Exams

“It’s just what I always wanted...”

Exam period 8th – 21st December

May help with workload management

• Astrophysics
• Introduction to Condensed Matter Physics
• Lasers and Applications
• Mathematics Skills
• Methods of Mathematical Physics
• Relativity, Nuclear and Particle Physics
Examinations

December Diet: 8\textsuperscript{th} – 21\textsuperscript{st} December 2016
Timetable available middle of Semester 1

April / May Diet: 1\textsuperscript{st} – 26\textsuperscript{th} May 2017
Timetable available middle of Semester 2

Bar codes (Evidently you are just a number)
Will be issued for all examinations by the Teaching Office.
SSLCT

Feedback from you helps!

We are looking for 5 representatives from across the degree programmes, ideally one from each of:

- Physics (including Physics with Meteorology, Physics and Music)
- Astrophysics
- Mathematical Physics
- Theoretical Physics,
- Computational Physics

We would prefer a mix of BSc and MPhys4 students.

SSLC Facilitator: Ken Rice

Email Rosie.Edwards@ed.ac.uk if you’re interested. We will hold an e-mail election if there are more candidates than places.
Building Access

General Access

Workroom, computer labs, etc:

- 08:00 – 18:00 Mon-Fri, doors open, no swipe required.
- 18:00 – 20:30 Mon-Fri, doors locked, card swipe, no PIN required.
- 20:30 – 08:00 Mon-Fri, doors locked, swipe, PIN & authorisation required.
- 09:00 – 17:00 Sat-Sun, doors locked, card swipe, no PIN required.
- 17:00 – 09:00 Sat-Sun, doors locked, swipe, PIN & authorisation required.
- Undergraduates should not be in the building during “PIN authorisation” periods.

Experimental Laboratories

- Monday and Thursday 10:00am to 5:00pm
- Other periods during Mon-Fri 9:00am to 5:00pm by arrangement with supervisor or local technician.

- No access to labs after 5:00pm or at weekends
Honours Workroom

Common room / workroom for SH/IM students

Room 4200

Door code 1, 2, 4, 5

Rules:

- No music, no excessive noise (consider your neighbours)
- Keep tidy(ish), and avoid build-up of unwashed cups/plates, etc.
Wireless Access

Wireless Access is available throughout the University. There is > 90% coverage in JCMB including work/social area on level 3, SH workroom, CP Lab, lecture theatres.

Don’t attempt to plug personal laptops into School computing network sockets: it does not work, and upsets Computer Support Team

- Register for wireless via Information Services (IS)
- Use your IS username/passwd to connect.
- Help from IS.Helpline@ed.ac.uk, 0131-651-5151
Library

- Noreen and Kenneth Murray Library – books only
- Hard copy journal articles – scans via ILLiad
- New Mary Brück building – replaces Darwin café for now
CPLab

- Main CP Lab on first floor Room 1.1028, opposite teaching studio JCMB 1206. ~70 seats.

- Generally booked for classes Semester 1 during pm, but open-access am

- Swipe card access (your University card) at all times

- PIN access outside working hours, need to ask for it

- Second CP Lab, ~25 seats, JCMB 7307

- Questions or problems... there is a helpdesk JCMB 4201
Summer Placements

School of Physics and Astronomy Career Development Internship Programme

The School of Physics and Astronomy runs a Summer Student Bursary Scheme, to fund and support six students, with a bursary of £1,500 each, to undertake projects within the School of Physics and Astronomy over the Summer vacation period:

School of Physics and Astronomy Career Development Internship Programme

For information on other University Opportunities (eg at the Institute of Astronomy or through Internship Programmes), External Opportunities (Fermilab, CERN Summer School and many more).

https://www.wiki.ed.ac.uk/display/pastudentinfo/Careers+and+Study+Abroad
After June 2017 or 2018?

For information on jobs: talk to Careers Service

- [www.ed.ac.uk/careers](http://www.ed.ac.uk/careers)
- Weir Building at KB

Is a PhD for you?

- UoE Postgrad Open Day **16 November 2016**
- Ask a member of staff for advice on places to apply to in your chosen research area (*e.g.* MPhys supervisor)
- Deadlines are generally in Dec 2016 or Jan 2017 for Autumn 2017 entry
- UoE P&A contacts are: Ken Rice (Astro), Paul Clegg (CM), Daniel Watts (Nuclear), Christos Leonidopoulos (PPE), Jenni Smillie (PPT), Mark Bull (EPCC)
This was the Chemistry department at Nottingham University two years ago

-- it took 24 hours to put the flames out
Emergency Evacuation

Signalled by Fire Alarm:

- Leave the building as quickly as possible by **SHORTEST** signed Fire Exit route (generally NOT via main staircase)
- Do **not** use the lift.
- Do **not** wait to be “told to leave”, or “just finish an email”.
- Assemble in car park **well clear** of cobbled entrance area.
- Do **not** re-enter building until told to do so by official (Fire Officer or uniformed staff)

Other details, including disabled procedure can be found on yellow information leaflet and blue signs throughout building.

Take a couple of minutes to ask “which is the best way out?” especially when working in unfamiliar parts of the building.
Other Emergencies

If immediate assistance not available, call University Security on

From internal phone: 2222
From mobile, etc: 0131 651 3999

Typical use:
- Serious injury or illness needing urgent medical attention.
- Serious accident or incident needing urgent action.
- Attack on persons or building
- Suspicious person / activity in building or grounds.

Security will contact emergency services if needed. Use this in preference to external 999 call.
Other Assistance

Non-critical First Aid:
- Telephone numbers of registered First Aiders on notices
- First Aid boxes held in Teaching Labs, Teaching Office,
- Servitors’ box, main First Aid station
- Mechanical Workshop on level 1.

Accidents/near misses/safety concerns:
- In Experimental Lab, to Supervisor or local technician
- Rosie Edwards, Teaching Manager, Room 4321.
- Neil Wood, School Technical Services Manager, Room 4209
- Dr Tom Davinson, Convenor of Safety Committee.