



## **Module Handbook**

[Modules are available to students coming on the following incoming programmes:  
non-European exchange; European exchange; full-year fee-paying study abroad]

## **Incoming Students**

**Academic year 2026/2027**

## **Physics**

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## A: THE DEPARTMENT

The Department of Physics is based in the Rochester Building and the adjoining Ogden Centre for Fundamental Physics, on the Science campus. This is near the corner of South Road and Stockton Road. It is conveniently located, close to all the newer “Hill” Colleges (Grey, Collingwood, St Mary’s, Trevelyan, Van Mildert, St Aidan’s, Josephine Butler and South College) and within a walking distance from the other colleges. Teaching is mostly via lecture courses, lab sessions and projects, as is typical for physics degrees throughout the world. Durham physics admits around 180 students a year, meaning that some of the classes are quite large; however, Physics students also have activities in smaller groups, e.g., example classes or workshops, and the final year project is supervised in one to one meetings.

### A1: Exchange Coordinator

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## B: DEGREE STRUCTURE

The Department offers the following degrees:

- BSc Physics (3 years)
- MPhys in Physics, Theoretical Physics, or Physics and Astronomy (4 years)

All degrees at Durham have a modular structure, consisting of the equivalent of six modules (in total, 120 Durham credits, amounting to 60 ECTS) each year. Modules are usually studied over all three terms of the teaching year. All modules are examined or assessed in the year in which they are taught at the end of the first year there are preliminary examinations, and the final degree class is determined by the examinations taken in the second, third, and (in the case of the MPhys degrees) fourth year. The modules taken are closely prescribed, and certain extra modules are compulsory for the Theoretical Physics and the Physics and Astronomy options.

## C: REQUIREMENTS AND RESTRICTIONS

**This section contains important information for setting up your academic programme at Durham University. Please read through this section carefully before considering your modules and filling in the Learning Agreement!**

## **C1: General**

### **Choice of Modules**

#### **IMPORTANT NOTE FOR STUDENTS: PLEASE READ BEFORE COMPLETING YOUR LEARNING AGREEMENT**

At Durham University Incoming European Exchange Programme agreements are signed by individual university departments and are not university-wide agreements. This means that, in general, students will have to choose modules (courses) within the Durham University department through which the Incoming European Exchange Programme agreement with their home university has been signed (students should check with the Exchanges Coordinator in their university if they are not sure which department this is). Modules offered by other departments are subject to availability and can only be taken with prior consent from the relevant department. Certain restrictions may also apply to courses in some departments and students need to follow the advice below carefully before completing their Learning Agreements.

Please clearly indicate the modules you wish to take on your Learning Agreement (included in your application package) for approval by the respective department(s). Before completing your Learning Agreement, it is very important that you read carefully the relevant departmental section(s) of the Module Handbook to check which modules are available to you and any restrictions which may apply. It is imperative that a properly completed Learning Agreement is submitted as part of the application form. Only complete applications can be processed.

Section *D: Module Details* are available in the department's handbook which is updated each academic year. To find out about the details for each module (teaching methods and contact hours, prerequisite academic background, method of assessment, content, etc) please refer to the Faculty Handbook online, under <http://www.dur.ac.uk/faculty.handbook/>.

### **C2: Departmental Requirements and Restrictions**

Exchange students should provide information on what they have already studied and been examined on in their home institution, which is as clear and complete as possible.

**It is extremely important that students discuss their module choices with the Exchange Coordinator at their home institution, to evaluate whether the modules that have been selected are of appropriate level, considering modules prerequisites.**

<b>D: MODULE DETAILS</b>
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Up-to-date details of modules available for the current academic year are available from the Faculty Handbook online under <http://www.dur.ac.uk/faculty.handbook/>

Some courses included in the handbook may not be available in the coming academic year, if in doubt, please contact the department's Exchange Coordinator.

### **D1: Modules available to European students coming on a departmental link**

Modules available for exchange students are listed below. (There are very few restrictions, which are usually for logistical reasons.)

#### **YEAR 1**

<b>MODULE CODE</b>	<b>MODULE TITLE</b>	<b>ECTS</b>
PHYS1122	FOUNDATIONS OF PHYSICS 1	20
PHYS1101	DISCOVERY SKILLS IN PHYSICS	10
PHYS1081	INTRODUCTION TO ASTRONOMY	10

#### **YEAR 2**

<b>MODULE CODE</b>	<b>MODULE TITLE</b>	<b>ECTS</b>
PHYS2581	FOUNDATIONS OF PHYSICS 2A	10
PHYS2591	FOUNDATIONS OF PHYSICS 2B	10
PHYS2611	MATHEMATICAL METHODS IN PHYSICS	10
PHYS2621	STARS AND GALAXIES	10
PHYS2631	THEORETICAL PHYSICS 2	10
PHYS2641	LABORATORY SKILLS AND ELECTRONICS *	10
PHYS2651	PHYSICS IN SOCIETY	10

\* Permission to take Laboratory Skills and Electronics must be arranged in advance with the Department Exchange Coordinator.

#### **YEAR 3**

<b>MODULE CODE</b>	<b>MODULE TITLE</b>	<b>ECTS</b>
PHYS3621	FOUNDATIONS OF PHYSICS 3A	10
PHYS3631	FOUNDATIONS OF PHYSICS 3B	10
PHYS3601	ADVANCED LABORATORY*	10
PHYS3591	MATHEMATICS WORKSHOP	10
PHYS3561	COMPUTING PROJECT	10
PHYS3711	CONDENSED MATTER PHYSICS 3	10
PHYS3651	PLANETS AND COSMOLOGY 3	10
PHYS3661	THEORETICAL PHYSICS 3	10
PHYS3581	TEAM PROJECT	10
PHYS3721	MODERN ATOMIC AND OPTICAL PHYSICS 3	10

\* Permission to take advanced Laboratory must be arranged in advance with the Department Exchange Coordinator.

#### **YEAR 4**

<b>MODULE CODE</b>	<b>MODULE TITLE</b>	<b>ECTS</b>
PHYS4213	PROJECT *	30
PHYS4121	ATOMS, LASERS AND QUBITS	10
PHYS4141	ADVANCED THEORETICAL PHYSICS	10
PHYS4151	ADVANCED CONDENSED MATTER PHYSICS	10
PHYS4161	ADVANCED ASTROPHYSICS	10
PHYS4181	PARTICLE THEORY	10
PHYS4201	THEORETICAL ASTROPHYSICS	10

\* Permission to take this module must be arranged in advance with the Department Exchange Coordinator

#### **D2: Modules for incoming European Exchange Programme students coming to Physics on an external link (through a different department)**

Modules open to students coming through a different department are the same as for students coming on a departmental link. However, laboratory, tutorial or project-based modules will generally not be available. Interested students should contact the physics exchanges coordinator ([f.m.b.dias@durham.ac.uk](mailto:f.m.b.dias@durham.ac.uk)) for advice.

#### **D3: Selecting modules, avoiding timetable clashes**

When selecting modules, pay close attention to each module's syllabus and prerequisites. Doing so will help you determine whether your choices are appropriate for your level of study.

Exchange students may choose modules from different academic years. However, this increases the risk of timetable clashes, which must be avoided.

**The simplest way to prevent clashes is to select all your modules from the same year.**

If choosing modules across different years is unavoidable, please use the timetable tool linked below to check for potential clashes:

Timetable Checker:

[http://www.maths.dur.ac.uk/users/math.teaching/tt/module\\_checker.html](http://www.maths.dur.ac.uk/users/math.teaching/tt/module_checker.html)

The tool is updated annually around June and allows you to check timetable compatibility for modules across all departments.

To use the tool:

- Select a department.
- Choose a module.
- Click “Add module.”

Repeat these steps until all your chosen modules have been added. The tool will then display any timetable clashes between lectures and other scheduled activities.

Clashes are highlighted as follows:

- Red: Serious clashes, usually between lectures. These must be avoided.
- Yellow: Less serious clashes, typically involving workshops, example classes, or lab sessions where multiple identical sessions are offered each week. These can often be resolved by the department assigning you to an alternative session.