

# Department of Physics

## About the department

The Department of Physics is one of the major centres for physics in the University of London. It has an international reputation for its research and excellent record of teaching, being consistently ranked near the top of the league tables. There is a diverse course range, covering all areas of the subject, including experimental, theoretical and computational physics.

## Entry requirements

The courses listed below are open to all Study Abroad, International and Erasmus students, subject to any required previous knowledge or qualifications, as stated in the course outlines below.

Each course is 15 RHUL credits and starts in either Term 1 (September) or Term 2 (January).

First year courses: There are no formal prerequisites for first year courses. However, a good mathematical background is seen as very beneficial to students.

*The information contained in the module options on the following pages is correct at the time of publication but may be subject to change as part of our policy of continuous improvement and development.*



[royalholloway.ac.uk/Physics](https://royalholloway.ac.uk/Physics)



ROYAL  
HOLLOWAY  
UNIVERSITY  
OF LONDON

## 2026-27 Module options for visiting students

Module code	Module name	Credit value	Term 1, Term 2 or Full Year	Module syllabus Link and any pre-requisites
PH1110	Mathematics for Scientists 1	15:00	Term 1	<a href="#">PH1110 Syllabus Information</a>
PH1120	Mathematics for Scientists 2	15:00	Term 2	<a href="#">PH1120 Syllabus Information</a>
PH1320	Classical Mechanics	15:00	Term 1	<a href="#">PH1320 Syllabus Information</a>
PH1420	Fields and Waves	15:00	Term 2	<a href="#">PH1420 Syllabus Information</a>
PH1620	Classical Matter	15:00	Term 1	<a href="#">PH1620 Syllabus Information</a>
PH1920	Physics of the Universe	15:00	Term 2	<a href="#">PH1920 Syllabus Information</a>
PH2130	Mathematical Methods	15:00	Term 1	<a href="#">PH2130 Syllabus Information</a>
PH2210	Quantum Mechanics	15:00	Term 1	<a href="#">PH2210 Syllabus Information</a>
PH2310	Optics	15:00	Term 2	<a href="#">PH2310 Syllabus Information</a>
PH2420	Electromagnetism	15:00	Term 1	<a href="#">PH2420 Syllabus Information</a>
PH2610	Classical and Statistical Thermodynamics	15:00	Term 2	<a href="#">PH2610 Syllabus Information</a>
PH2710	The Solid State	15:00	Term 2	<a href="#">PH2710 Syllabus Information</a>



[royalholloway.ac.uk/Physics](http://royalholloway.ac.uk/Physics)



ROYAL  
HOLLOWAY  
UNIVERSITY  
OF LONDON

Module code	Module name	Credit value	Term 1, Term 2 or Full Year	Module syllabus Link and any pre-requisites
PH3040	Energy and Climate Science	15:00	Term 2	<a href="#">PH3040 Syllabus Information</a>
PH3130	Advanced Classical Physics	15:00	Term 1	<a href="#">PH3130 Syllabus Information</a>
PH3150	Further Mathematical Methods	15:00	Term 2	<a href="#">PH3150 Syllabus Information</a>
PH3210	Quantum Theory	15:00	Term 1	<a href="#">PH3210 Syllabus Information</a>
PH3520	Particle Physics	15:00	Term 1	<a href="#">PH3520 Syllabus Information</a>
PH3710	Metals and Semiconductors	15:00	Term 2	<a href="#">PH3710 Syllabus Information</a>
PH3910	General Relativity and Cosmology	15:00	Term 2	<a href="#">PH3910 Syllabus Information</a>
PH3920	Stellar Astrophysics	15:00	Term 2	<a href="#">PH3920 Syllabus Information</a>
PH3930	Particle Astrophysics	15:00	Term 2	<a href="#">PH3930 Syllabus Information</a>



## 2026-27 Module options for visiting students

Module code	Module name	Credit value	Term 1, Term 2 or Full Year	Module syllabus Link and any pre-requisites
PH4130	Advanced Classical Physics	15:00	Term 1	<a href="#">PH4130 Syllabus Information</a>
PH4150	Further Mathematical Methods	15:00	Term 2	<a href="#">PH4150 Syllabus Information</a>
PH4211	Statistical Mechanics	15:00	Term 2	<a href="#">PH4211 Syllabus Information</a>
PH4226	Advanced Quantum Theory	15:00	Term 1	<a href="#">PH4226 Syllabus Information</a>
PH4320	Advanced Astrophysics	15:00	Term 1	<a href="#">PH4320 Syllabus Information</a>
PH4321	Research Topics in Astrophysics	15:00	Term 2	<a href="#">PH4321 Syllabus Information</a>
PH4442	Advanced Particle Physics	15:00	Term 1	<a href="#">PH4442 Syllabus Information</a>
PH4450	Particle Accelerator Physics	15:00	Term 1	<a href="#">PH4450 Syllabus Information</a>
PH4472	Orders and Excitations in Quantum Materials	15:00	Term 2	<a href="#">PH4472 Syllabus Information</a>
PH4475	Nano-Electronics & Quantum Technology	15:00	Term 1	<a href="#">PH4475 Syllabus Information</a>
PH4515	Statistical Data Analysis	15:00	Term 1	<a href="#">PH4515 Syllabus Information</a>



[royalholloway.ac.uk/Physics](https://royalholloway.ac.uk/Physics)



ROYAL  
HOLLOWAY  
UNIVERSITY  
OF LONDON