

FAQs

1. How many places are available on this course?

In the first year we expect to accept up to 20 students.

2. What are the requirements for entry?

A degree comparable to a 2.1 or better UK Bachelor's degree in Physics.

3. How should I apply? What is the procedure?

Applications should be made by following the procedure at

<http://www.admin.cam.ac.uk/offices/gradstud/admissions/>

Whilst late applications will be considered, applications should be made as soon as possible.

4. How will I fund this course?

Although some bursary funding may be available, applicants should expect to arrange their own funding.

Cavendish Laboratory

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<http://www.phy.cam.ac.uk/>



UNIVERSITY OF
CAMBRIDGE



Cavendish Laboratory

Master of Advanced Study (MASt)

In

**Experimental and
Theoretical physics**

Master of Advanced Study (MASt) in Experimental and Theoretical physics (available from 1/10/2010).

This demanding one year course is based at the Cavendish Laboratory of the University of Cambridge, one of the world's leading centres for the study of physics.

The structure of the MASt degree is based on the current final year (Part III) of the integrated MSci masters course. The course consists of a major research project based in a research group plus taught elements, including modules on advanced aspects of experimental and theoretical physics.

The standard requirement is three Major Options, three Minor Options, a Research Project and a paper in General Physics. Candidates will receive a transcript describing their performance in each course along with an overall grading (Pass, Merit or Distinction).

Major options

- Advanced Quantum Condensed Matter
- Relativistic Astrophysics and Cosmology
- Physics of the Earth as a Planet
- Quantum Condensed Matter Field Theory
- Soft Matter
- Particle Physics
- Atomic and Optical Physics
- Quantum Field Theory (from part III Maths)

The courses listed above are assessed by written examinations. Three or more options to be taken.

General Physics

Mechanics, relativity, electromagnetism, quantum physics, thermodynamics and condensed matter physics.

Assessed by a written examination

Minor options

- Phase Transitions and Collective Phenomena
- Superconductivity and Quantum Coherence
- Frontiers in Experimental Condensed Matter Physics
- The Physics of Nanoelectronic Systems
- The Frontiers of Observational Astrophysics
- The Formation of Structure in the Universe
- Non-linear Optics and Quantum States of Light
- Atmospheric Chemistry and Global Change
- Materials, Electronics and Renewable Energy
- Gauge Field Theory
- Particle Astrophysics
- Nuclear Power Engineering
- Biological Physics
- Quantum Information
- Medical Physics
- Atmospheric Physics
- Climate Change
- Materials for Energy

The courses listed above are indicative, and vary from year to year. They are assessed by written examinations. Three or more options to be taken.

Research Project

Based in one of the following areas:

- Astrophysics
- Biological and Soft Systems
- Inference
- Nanophotonics
- Quantum Matter
- Optoelectronics
- Thin Film Magnetism
- Atomic, Mesoscopic and Optical Physics
- High Energy Physics
- Microelectronics
- Surfaces, Microstructure & Fracture
- Semiconductor Physics
- Theoretical Condensed Matter Physics
- Detector Physics

(Projects may also be available within other academic departments <http://www.phy.cam.ac.uk/research/>). Assessed by a report and Oral Examination