One of the top 100 universities in the world
29,000 students from more than 140 countries
In the top 5 of the Russell Group for student satisfaction (NSS 2019)
Ranked 2nd in Scotland for physics & astronomy (Complete University Guide 2021)
A member of the Russell Group of research-intensive UK universities
Four-year degree programmes offering flexibility & choice
250+ clubs and societies

How to apply
For full-time study you must apply through the Universities & Colleges Admissions Service (UCAS). See ucas.com.
Astronomy is the study of the physical universe, from the Earth and the solar system to galaxies at the edge of the cosmos.

**Entry requirements**

Our programme webpages advertise the most up-to-date detail on our entry requirements for 2021/22 entry at glasgow.ac.uk/undergraduate. Due to the impact that the COVID-19 pandemic has had on grades certified in 2020, we are currently assessing the flexibility that we can offer in the consideration of academic entry requirements. We will publish any changes on our webpages.

**Our international links**

Our staff have strong international links across a wide range of research fields. Many of our staff play leading roles in major international research projects, such as NASA’s solar orbiter mission and the worldwide collaboration searching for gravitational waves. You will have the opportunity to undertake part of your degree abroad.

**Accreditation**

This degree programme is accredited by the Institute of Physics.

**Career prospects**

The scientific knowledge and mathematical and analytical skills you acquire will equip you to work across a wide range of industries. Many of our graduates choose to continue their studies for a higher degree such as an MSc or a PhD in a specialised area of astronomy, or a related subject, before entering the job market.

**Why choose Glasgow?**

Astronomy lectures are complemented by our observatory, planetarium and telescope facilities. You will learn about the latest developments in astrophysics from research leaders.

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Chemical physics is concerned with electrons, nuclei, atoms and molecules in all states of matter, and how they interact with their environment. This degree programme covers the area in which chemistry and physics overlap.

**Entry requirements**

Our programme webpages advertise the most up-to-date detail on our entry requirements for 2021/22 entry at glasgow.ac.uk/undergraduate. Due to the impact that the COVID-19 pandemic has had on grades certified in 2020, we are currently assessing the flexibility that we can offer in the consideration of academic entry requirements. We will publish any changes on our webpages.

**Accreditation**

These programmes are accredited by the Institute of Physics.

**Career prospects**

Our graduates are employed in industry, commerce, government research and education. Many graduates proceed to research leading to a higher degree. Some of our recent graduates have been employed by EDF Energy, Quotent Clinical, Reckitt Benckiser, Sterling Medical Innovation, and Synergy Outsourcing, among many other companies.

**Why choose Glasgow?**

You will learn how to understand the laws of physics so that you can apply the latest technologies to control molecules and make new materials.
PHYSICS/THEORETICAL PHYSICS

Physics is the experimental and theoretical study of matter and energy and their interactions, ranging from the domain of elementary particles, through nuclear and atomic physics, to the physics of solids and, ultimately, to the origins of the universe itself.

Year 1
You will gain a basic understanding of the core topics in theoretical physics and the methods of experimental physics, and obtain a solid foundation for further study of the subject. Topics include dynamics, wave motion, properties of matter, thermal physics, optics, electricity and magnetism, and quantum physics.

You will also study mathematics and other optional subjects in years 1 and 2.

Year 2
You will train in more specialised experimental techniques and study the latest developments in modern physics research. Topics include physics of waves, dynamics, physics of solids, thermal physics, electricity and magnetism, nuclear and particle physics, physics of optics and mathematical techniques.

Years 3, 4 and 5
If you progress to Honours (years 3 and 4) you will continue to study in greater depth core topics spanning all areas of physics, explore a range of specialist topics of your choice, and undertake project work, often within a world-leading research group.

The Physics degree programmes emphasise technological applications such as laser physics, semiconductor physics and devices, modern signal processing technology, and magnetic and superconducting materials. The Theoretical Physics degree focuses on more advanced theoretical topics, and will involve specialised computational project work. In the final year, all students work on an independent research project embedded in one of the school’s active research groups.

There is an opportunity to take an MSci degree, which explores physics topics in greater depth and includes a more extensive individually supervised project working at the cutting edge of international research.

PHYSICS WITH ASTROPHYSICS

In this degree programme the study of physics is particularly focused on astrophysical phenomena: from stars and planets to galaxies and cosmology.

The Physics degree programmes emphasise a world-leading research group in which to explore the laws of physics, and in certain astrophysical objects – such as pulsars, quasars and black holes – to test those laws under extreme conditions.

Year 1
You will gain a basic understanding of the main topics in theoretical physics and be introduced to the methods of experimental physics, acquiring a solid foundation for further study in physics.

You will learn how modern physics underpins our understanding of the universe.

Astronomy lectures are complemented by our observatory, planetarium and telescope facilities. You will learn how modern physics underpins our understanding of the universe.

Entry requirements
Our programme webpages advertise the most up-to-date detail on our entry requirements for 2021-22 entry at glasgow.ac.uk/undergraduate. Due to the impact that the COVID-19 pandemic has had on grades certified in 2020, we are currently assessing the flexibility that we can offer in the consideration of academic entry requirements. We will publish any changes on our webpages.

Our international links
You will have the opportunity to study abroad at one of our partner universities as part of your degree. This won’t add any extra time to your studies.

Accreditation
All programmes containing physics are accredited by the Institute of Physics.

Career prospects
The scientific knowledge and mathematical and analytical skills you acquire will equip you to work across a wide range of industries including aerospace, electronics, semiconductors, petroleum, communications, computing, medical physics, education, commerce and the Civil Service.

Why choose Glasgow?
Many of our staff play leading roles in major international research projects, such as the Large Hadron Collider at CERN and the gravitational wave observatory LIGO.