Course Information

CITY OF WOLVERHAMPTON COLLEGE

A Level in Physics

Study Mode: Full Time

Is this course right for me?

Are you interested in finding out how the universe works? Are you fascinated in the fundamental particles that make up matter and the fundamental forces that hold everything together? Do you want to know how nuclear energy is generated? Or how optical fibers work?

If yes, then this is the right course for you!

Physics is arguably the most exciting part of all science and technology. It looks all the way from the inside of atoms out to the whole universe and in between. It covers such things as mechanics, optics, waves, materials, particle physics, fields, electricity, radioactivity and energy. An understanding of the concepts in physics leads some way to understanding nature itself. It is the glue that holds the other sciences together.

Physics is playing an important part in the development of telecommunications, medical diagnosis, space exploration, manufacturing and countless other applications, both in industry and the home.

Physics A Level is one of the most respected A Levels there is, and it shows you are numerate and can handle a demanding course to a high level.

Please note – when applying for any A level on our website, this submits your application for the full A level programme. **You only need to apply for one subject** – your other subject choices will be discussed at interview.

Entry Requirements

For external applicants:
To access this course, you are required to:

- Minimum of 5 GCSEs at Grade 5 or above (including English and Maths) with Maths and Science subjects at Grade 6 or above
- The required QoE score
- Demonstrate how you have previously had good attendance and punctuality and a good attitude to learning

For internal progression learners (already studying with us):
Learners must be able to demonstrate that they:

- Have successfully completed a relevant course that naturally progresses onto this programme, achieving a good standard
- Minimum of 5 GCSEs at Grade 5 or above (including English and Maths) with Maths and Science subjects at Grade 6 or above
- Have maintained good attendance and punctuality
- Show a consistently positive attitude to learning

What will I learn?

During this course you will study:

- Measurements and their errors
- Particles and radiation
- Waves
- Mechanics and materials
- Electricity
- Further mechanics and thermal physics
- Fields and their consequences
- Nuclear physics
- Options topic

What skills will I gain?

By studying this course you will:

- Develop your understanding of physics and physical processes in a way that that promotes confidence and fosters enjoyment
- Appreciate how society makes decisions about scientific issues and how the sciences contribute to the success of the economy and society
- Develop an understanding of the link between theory and experiment and foster the development of skills in the design and execution of experiments
- Develop abilities to reason logically in scientific terms
- Develop the ability to ask relevant and significant questions about how things work
- Extend your range of physical skills and techniques and use them to explain complex problems in the world around us
- Develop essential knowledge and understanding in physics and, where appropriate, the applications of physics with an appreciation of their significance and the skills needed for the use of these in new and changing situations
- Acquire the skills needed to use technology such as data loggers effectively to make observations and appreciate their limitations
- Develop an awareness of the relevance of physics to other fields of study, to the world of work and to society in general
- Take increasing responsibility for your own learning and develop the necessary skill to do so

How will I be assessed?

You will be assessed by three exams, each lasting two hours.

What can I do next?

The skills you will learn from this course will enable you to:

- Pursue a career in research and development, scientific laboratory Work, mechanical engineering, electrical engineering, medical physics, education, finance sector, physics research, materials, optometry, radiology
- Progress on to higher education, employment or an apprenticeship

Delivery

Location: City Learning Quarter

Start Date: 07/09/2026

Day:

Time:

Course Fee:

Course Code: Q0131

Study Mode: Full Time

Apply online: **www.wolvcoll.ac.uk/apply**