Working together to transform lives

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Extended Certificate in Principles of Applied Science



Subject Area	Science
Course Type	School Leavers
Study Level	Level 2
Delivery Mode	Full-time
Duration	2 Academic Years
Start Date	September 2027
Course Code	PA000041

View on **bradfordcollege.ac.uk**

Course Summary

Do you have a passion for science and want to pursue this as a career?

The science field has high expectations, with new recruits frequently needing specific skills regardless of their desired discipline. This course will provide the foundation required to get you set for an exciting career in the science industry. This course is perfect if you have a passion for problem solving and investigation and a good eye for detail.

You'll learn both the principles and applications of all three sciences. You will also be able to develop your skills in Maths and English.

You can expect hands-on practical learning combined with gaining a good grasp of theory. You will study in our specialist laboratories and be taught by highly skilled and experienced tutors. You'll get a great insight into the career paths available across a range of scientific careers.

What You Will Learn

“Throughout the two years, you will experience a range of exciting practicals that link to biology, chemistry, and physics. Whilst continuing to make links to a range of scientific careers, such as Forensic Analysis, Laboratory Technician, Environmental Scientist and Radiography. You will study in our specialist laboratories and be taught by highly skilled and experienced tutors. This course is a mixture of lectures, practical work and self-directed study, allowing you the time to also study Maths and English to achieve Grade 4’s

Modules

The **core units** are:

- Principles of Science (examined in February)
- Chemistry and Our Earth
- Energy and Our Universe
- Biology and Our Environment.
- Applications of Chemical Substances
- Applications of Physical Science
- Health Applications of Life Sciences
- Scientific Skills (examined in May)

The **additional units** are:

- World Energy
- The Living Body
- Monitoring the Environment
- Investigating a Crime Scene

Entry Requirements

Entry to this course requires GCSE English, GCSE Maths and GCSE Combined Science or two single Science GCSEs at a grade 3. We also accept Level 1 Applied Science and Functional Skills Maths and English level 1 or above.

Work Experience

You will undertake a minimum of two meaningful employer encounters and two

employer led masterclasses, all designed to develop your soft and foundational skills. Throughout the course, you will partake in tailored workplace visits and industry insight events, explore specific career pathways and gain a clear understanding of workplace expectations. You will also undertake mock interviews, CV development activities and receive guidance and support from industry professionals to help you prepare for your next steps

Progression

The skills and knowledge you gain on the course will enable you to progress on to more advanced qualification such as the BTEC Level 3 Diploma in Applied Science or get a job in a range of scientific areas including Environmental Science, Food Science, Scientific Research, Quality Control, Hospital Laboratory work and new Product Testing.

Disclaimer: Our prospectus, college documents and website are simply here to offer a guide. We accept no liability for any inaccurate statements and are not responsible for any negative outcomes if you rely on an inaccurate statement. We reserve the right to withdraw any programmes or service at any time.