Level 3

Science

T Level

Duration	Location	Starting	Age	Careers
2 years	Rush Green Campus	Sept 2025	16-18	Science

Course fees per year

AGE 16-18

FREE

Contact us to discuss what Financial support is available.

Overview

Do you enjoy learning about and applying scientific knowledge to solve real life problems?

If you're looking to gain experience within an industrial scientific laboratory setting whilst also learning at college about a range of biological, chemical and physical scientific concepts, then this T Level is a great option.

On this two-year course, which is equivalent to 3 A Levels, you will develop a comprehensive knowledge of science. It consists of a **core component**, **an occupational specialism** and **an industry placement**, which together will prepare you for the world of work.

The course has been designed alongside employers to support your progression into a skilled career.

What you'll learn

You will study a **core component** of biology, chemistry and physics including:

- Cell biology, molecular biology, genetics, microbiology, immunology.
- Chemical properties, reactions, acids/bases, energy changes, chemical analysis and chemical equations.
- Electricity, magnetism, waves, nuclear radiation, gases, materials science and thermal physics.

Within your **occupational specialism** you will study a wide range of different applications of biological, chemical and physical science and develop your knowledge and understanding of laboratory techniques used in the science manufacturing environment including:

- Analysis of substances and environments
- Biological techniques, including tissue culture, classification and microbiological techniques.
- Chemical analysis, including distillation and spectroscopy, and nanoscience.
- Understanding of a range of scientific equipment and instrumentation.

You will also complete an **industry placement** with an employer, focused on developing your practical and technical skills, which will last a minimum of 45 days.

Assessments / Exams

You'll need to have excellent attendance and punctuality to complete this course. You will be assessed in college and in your work placement, via a combination of externally set exams, assignments and an employer project.

You'll need to complete three synoptic assignments for your occupational specialism, which include a combination of lab practical, written report, literature review, data analysis, portfolio of work, presentation and research tasks.

Entry requirements

You will need to have GCSE Maths and Science at grade 5 or above. English language and one additional subject at grade 4 (C) or above.

As part of the application process you will also be asked to explain why you want to study this course, so that we can ensure any course offer made aligns to your career goals.

What this course leads to

On successful completion of this course you could progress to:

- Studying towards a degree. You'll be able to choose from a range of scientific subjects
- Higher or degree level apprenticeships relating to chemical and biological sciences
- Employment

Scientific skills are in demand in the workplace. With further training this qualification could lead to careers in biomedical science, chemical, biological, physical, environmental and earth science, food science, pharmaceutical science, manufacturing and quality control, and more.

Visit this course on our website: *https://barkingdagenhamcollege.ac.uk/find/courses/0000011932*

For further information please contact the college: *https://barkingdagenhamcollege.ac.uk/contact*