

#TRANSFORMINGLIVES

Hartlepool College
of Further Education



Access to Higher Education

SCIENCE DIPLOMA

“A qualification which prepares people without traditional qualifications for study at degree level at university”
(Access to Higher Education, 2020)

TRANSITION PACKAGE

HOW CAN AN ACCESS DIPLOMA HELP ME?

It is structured and designed to provide relevant and general scientific knowledge and opportunities to learn how to approach academic study to prepare you for higher education (HE).

WHO CAN STUDY AN ACCESS DIPLOMA?

Adult students undertaking Access to HE Diplomas come from a wide variety and backgrounds. This course is aimed at people who may not have been in education for a while, or who did not achieve the qualifications needed to gain entry into university in the past.

WHAT RECOGNISED QUALIFICATION WILL I ACHIEVE BY STUDYING AN ACCESS TO HE DIPLOMA?

Students whom complete all course requirements, is awarded an Access to HE Diploma. This is a recognised qualification and is regulated by the Quality Assurance Agency (QAA) for HE Diplomas.

This is a level 3 qualification recognised by universities.

There is also support and assistance given to applying to university through UCAS if you undertake an Access to HE Diploma.

WHAT UNIVERSITY COURSES CAN I PROGRESS TO, AFTER THE ACCESS TO HE DIPLOMA IN SCIENCE?

MANY!

They commonly include: nursing, midwifery, zoology, biological sciences, biochemistry, biomedical science, marine biology, physiology, physiotherapy, physics, psychology, radiography, optometry, engineering.

WHAT ARE THE ENTRY REQUIREMENTS?

**Maths and English at GCSE grade 4+/C+ (or level 2 equivalent).
GCSE Science at GCSE grade 4+/C+.**

Due to the higher mathematical nature of science, including in units studied on this diploma, these entry requirements are crucial.

WHEN ARE CLASSES?

Wednesday and Thursday evenings, 5pm-9pm.
Attendance to both weekly sessions is compulsory.

Biology of Human Health and Illness
Biochemistry
Core Science (a blend of key concepts from biology, chemistry and physics)
Chemistry
Food and Nutritional Science
Higher Skills in Mathematics (algebra, graphical skills, number systems, logarithmic functions)
Physics

WHAT UNITS WILL I STUDY?

These are varied across all units and include written reports, laboratory write-ups, essays, written examinations, presentations, academic posters.

WHAT ARE ASSESSMENTS LIKE?

Visit the following website to apply:
hartlepoolfe.ac.uk/courses/explore/qaa-access-he-diploma-science

HOW DO I APPLY?

Ensure you liaise with the college and keep up to date with start dates via email, telephone and the college website.

Read the information below and on the following page and undertake the suggested tasks to help you make a positive start to your level 3 studying!

HOW CAN I PREPARE FOR THIS COURSE?

These are key words and phrases used across many of the units, and having a list of key words to refer to next year will help you!

DO NOT worry, you are not expected to know each one to begin the course, but it is background reading which will benefit you as you progress through the year.

KEY TERMS

TASK:
Write the definition for each of the following. Draw structures/ diagrams if needed.

BIOLOGY KEY TERMS	CHEMISTRY KEY TERMS	PHYSICS KEY TERMS
Carbohydrate structure	Atomic number	Energy
Protein structure	Atomic mass	Equilibrium
Lipid structure	Alkene	Torque
Monosaccharide	Alkane	Moment of a force
Polysaccharide	Collision theory	Conservation of Energy
Prokaryotic Cell	Ionic bonding	Newton's 1st law
Eukaryotic Cell	Covalent bonding	Newton's 2nd law

BIOLOGY KEY TERMS	CHEMISTRY KEY TERMS	PHYSICS KEY TERMS
Homeostasis	Collision theory	Newton's 3rd law
Endocrine System	Mole	Conservation of momentum
Phagocytosis	Acid	Coefficient of friction
Lymphocyte	Base	Energy transfer
Genetic Cross	Chemical formulae	Speed (inc units)
Mutation	Standard solution	Acceleration (inc units)
Aerobic respiration	Electronic configuration	Velocity (inc units)
Anaerobic respiration	Ionisation	1st Law of Thermodynamics
Enzyme specificity	Titration	Joule
Nucleic Acid	Crystallisation	Kilowatt
Chemical Digestion	Electrolysis	Uniform motion
Methods of food preservation	Organic chemistry	Non-uniform motion
Methods of food processing	Inorganic chemistry	Velocity-time graph

PREPARATION FOR ASSIGNMENTS

TASK:

To understand some of the terminology around this, use the following website

below:

www.citethemrightonline.com

Academic work should be of good quality, and for many this requires hardwork and the willingness to learn. Assignments **can not** contain copied and pasted work. This is forbidden and universities will have strict disciplinary guidelines which all students and tutors follow to ensure assignments are not copied and pasted. All Access to HE diplomas help prepare students by also making it a requirement that copying and pasting is must not occur, and support students to engage in the referencing of sources of information correctly to avoid plagiarism.

1) Define the key words:

- | | |
|---------------------|-----------------------|
| a) Primary research | b) Secondary research |
| c) Referencing | d) Plagiarising |
| e) Summarising | f) Paraphrasing |
| g) Bibliography | |

2) Using the website, find out and write the correct way to reference using Harvard style referencing.

It does not matter in this instance, what source of information you reference, but pay attention to the use of capital letters, commas, brackets, quotation marks, italic font.

- a) a textbook
- b) a website
- c) a scientific journal

