

## National 3 Biology (Course Code: C707 73)

SCQF Level 3 (18 Credit Points)

### Why study Biology?

Biology is the study of all living things, from the tiniest organisms to the largest lifeforms. You will learn how nature and the human body work, and how different forms of life eat, make energy and reproduce. You will also find out how Biology is helping to find solutions to world problems.

There are many career opportunities connected with biology, including medicine, nursing, dentistry, physiotherapy, food science, sport science, pharmacology and beauty therapy.

### Career Pathways

To see what career areas this subject could lead to and the routes to get there, download and view these career pathways:

[Animals, Land and Environment](#)

[Hairdressing, Beauty and Wellbeing](#)

[Health and Medicine](#)

[Science and Maths](#)

[Sport](#)

[Uniformed and Security Services](#)

### What do I need to get in?

The school or college will decide on the entry requirements for the course. You would normally have achieved:

- **National 2 Science in the Environment**

### What will I study?

Biology is a practical, hands-on subject that develops your critical thinking, and helps you to solve problems and make decisions. You will learn about plants, animals and people. You will find out how different organs and systems work, and how to classify and group things by similarities and differences. You will learn the skills involved in carrying out biological experiments in laboratories.

The course has **three** compulsory units.

### Cell Biology (6 SCQF credit points)

In this unit you will develop your scientific skills and investigate:

- the concept of the cell as the basic unit of life
- key areas of the structure and variety of cells and their functions
- the function of DNA, and the risks and benefits of DNA profiling
- photosynthesis, different types of microorganisms and how growth of microorganisms can be controlled.

### **Biology: Multicellular Organisms (6 SCQF credit points)**

In this unit you will:

- carry out practical investigations of multicellular plants and animals
- investigate key areas of the structure and function of organs and organ systems and their role in sustaining life
- learn about the role of technology in monitoring health and improving quality of life
- learn how the body defends itself against disease and the role of vaccine
- learn about fertilisation and embryonic development and risks to embryo.

### **Biology: Life on Earth (6 SCQF credit points)**

In this unit you will:

- carry out practical investigations of ecosystems and biodiversity, including sampling and identifying living things from different habitats to compare their biodiversity and suggest reasons for their distribution
- investigate different types of chemicals used in agriculture, the alternatives and their impact on global food production.

## **How will I be assessed?**

Your work will be assessed by your teacher or tutor on an ongoing basis throughout the course.

You must pass all units to get the qualification.

## **Study Materials**

## **What can I go on to next?**

If you complete the course successfully, it may lead to:

- **National 4 Biology**
- **National 4 Environmental Science**
- **National 4 Science**

Further study, training or employment in:

- Animals, Land and Environment

- Hairdressing, Beauty and Wellbeing
- Health and Medicine
- Science and Mathematics
- Sport
- Uniformed and Security Services