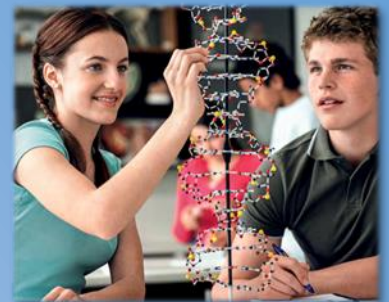


# Barnwell School

## OCR Alternative Academic Qualification (AAQ)

# HUMAN BIOLOGY



OCR Cambridge Advanced National, Extended Certificate in Human Biology  
Entry Requirements: Grade 5 English, Maths and Science

## Course Description Course Units

## Progression

The OCR AAQ in Human Biology course provides a comprehensive understanding of key biological concepts related to human life, including anatomy, physiology, genetics, and health. Students develop critical thinking and practical skills through experiments and real-world applications. This course is ideal for those interested in healthcare, biomedical sciences, or sports science. Combining theoretical knowledge with hands-on learning, it equips students with the skills needed for further education or careers in biology-related fields.

### Unit 1 – Fundamentals of Human Biology

This unit explores core concepts like cell structure, biochemistry, genetics, and body systems, providing a foundation for understanding human biological processes.

### Unit 2 – Health & Disease

This unit examines factors influencing human health, explores disease causes and prevention, and investigates the immune system, treatments, and the impact of lifestyle choices.

### Unit 3 – Genetics

This unit explores inheritance patterns, DNA structure and function, gene expression, genetic variation, and the role of genetics in health, evolution, and biotechnological advancements.

### Unit 4 – Biomedical Techniques

This unit explores laboratory methods used in healthcare, including microscopy, biochemical testing, DNA analysis, and diagnostic tools, emphasizing precision and application in medical science.

### Unit 5 – Nutrition & Metabolism

This unit examines dietary components, energy balance, and biochemical pathways, highlighting their roles in maintaining health, supporting bodily functions, and preventing nutrition-related diseases.

The qualification will equip you with the skills required to be successful in any post-18 route. UCAS recognises the qualification, enabling a student to use this qualification as part of an application to university.

Furthermore, a higher level apprenticeship would be appropriate for someone to build upon the skills learnt in an industry setting.

This course will give you the confidence to enter the world of work in any junior health care position.

Former students of Human Biology qualifications have gone on to study/work in the following organisations:

- BSc (Hons) Paramedic science
- BSc (Hons) Sports Science
- BSc (Hons) Nutrition
- BSc (Hons) Child Nursing
- GSK
- Sports therapy and rehabilitation

## Questions?

If you have any further questions please feel free to ask:

**Mr C Daly**

**Mrs K Cornwell**

## Assessment

### Unit 1 – Fundamentals of Human Biology

External Exam

### Unit 2 – Health & Disease

External Exam

### Unit 3 – Genetics

Internal Coursework

### Unit 4 – Biomedical Techniques

Internal coursework

### Unit 5 – Nutrition & Metabolism

Internal coursework