

BTEC National Extended certificate in Applied Human Biology



Who is this course good for?

If you are interested in working in the Health sector but would prefer to take a more vocational course this might be the one for you.

What content does the course cover?

The course is made up for 4 units

1 Principles of Applied Human Biology (Externally assessed)

- **A Fundamental development and function**
 - A1 Cells, tissues and biological molecules
 - A2 Nervous system
 - A3 Cardiovascular and respiratory system
 - A4 Digestive and excretory system
 - A5 Cellular injury and repair
 - A6 Diagnostic techniques
- **B Immune response, dysfunction and diagnosis of immune disorders**
 - B1 Immune response
 - B2 Immune dysfunction and diagnosis
- **C Genetics and health**
 - C1 Gene expression
 - C2 Genetic disorders and diagnosis

2 Practical Microbiology and Infectious Diseases

In this unit you will:

- **A Understand the classification and nature of microorganisms**
 - A1 Characteristics of different microorganisms
 - A2 Methods of pathogenicity
 - A3 Classification strategies
- **B Examine the transmission and treatments of infectious diseases**
 - B1 Classification overview of infectious disease
 - B2 Transmission of infectious
 - B3 Infectious diseases, signs, symptoms and progression

- B4 Prevention and treatment of infectious diseases
- **C Explore the application of techniques to culture and identify microorganisms**
 - C1 Health and safety
 - C2 Microscopy and staining techniques
 - C3 Culture of microorganisms
 - C4 Quantitative analysis of microbes
- **D Investigate the effects of antimicrobial agents on the growth of microorganisms.**
 - D1 Investigating the substances that inhibit the growth of
 - D2 Interpretation, analysis and evaluation

4 One optional unit yet to be decided out of; 4 Functional Physiology, 5 Diseases, Disorders, Treatments and Therapies, 6 Genetics and Genetic Engineering, 7 Biomedical Science, 8 Human Reproduction and Fertility

How is the course assessed?

1 Principles of Applied Human Biology (Externally assessed)

- Written examination set and marked by Pearson
- 1.5 hours
- 80 marks

2 Practical Microbiology and Infectious Diseases

- Internally set and marked assignments (Internally assessed)

3 Human Biology and Health Issues (Externally assessed)

- A task set and marked by Pearson and completed under supervised conditions
- The supervised assessment period is 3 hours and must be completed in one sitting on a day timetabled by Pearson
- 60 marks.

4 Final unit yet to be decided (as listed above)

- Internally set and marked assignments (Internally assessed)

Entrance requirements:

Grade 4 in English and Maths; 2 X 4 in Sciences.