

BIOLOGY

WHY STUDY BIOLOGY *at* STONYHURST?

MORE THAN EDUCATIONAL EXCELLENCE

A fine tradition of Biology study

There is a fine tradition of Biology study at Stonyhurst – from Charles Waterton OS, famous Victorian naturalist and the first to describe objectively the effects of curare, to the many recent OS in modern biological fields.

Inspiration all around you

We are fortunate to have the Waterton collection as a resource for our students whilst the wonderful natural woodland environment surrounding Stonyhurst provides further inspiration.

We will help you to develop and share your individual gifts and talents, learn from others and to reach your full potential as both a student and a person, preparing you for a successful future, wherever it may take you.

WHAT WILL I LEARN?

The study of Biology is key for a wide range of careers as well as being fascinating in its own right. Biologists work to solve the biggest challenges currently faced by people and the planet – fighting disease, protecting the environment and feeding our growing population.

Our courses combine traditional practical-based learning through experiments with internet-based resources. As a Biology student, you are expected to be hands-on in the laboratory and need to develop sound practical skills.

Topics are taught through a case-study structure but include recent updates in:

- ✓ Biochemistry
- ✓ Physiology
- ✓ Microbiology

Other important topics include:

- ✓ Human Biology
- ✓ Ecological Studies
- ✓ Plant Physiology



WHAT CAREER COULD I GO INTO?

Stonyhurst Biology graduates currently enjoy successful careers in:



Medicine



Dentistry



Biochemistry



Animal Behaviour



Neurophysiology



Pharmacology



Veterinary Medicine



Marine Biology



Microbiology



Environmental Studies

WHAT DO I NEED?

- ✓ The ability to think logically and independently
- ✓ The ability to apply higher level GCSE mathematical skills in order to analyse and evaluate data
- ✓ The ability to critically evaluate information and communicate this evaluation effectively
- ✓ An enthusiasm for the subject with good practical skills
- ✓ A good basic grounding in the Sciences and Maths. If you have less than a 6 grade in either, you will find the A level or IB course difficult

COURSE ENRICHMENT

We are very proud of our ability to inspire and motivate our students; and the fact that many of our students go on to study Science at University is a testament to this. Just a few of our activities include:

- ✓ Science Society talks and visiting speakers
- ✓ British Biology Olympiad
- ✓ Waterton Society
- ✓ Visit to A level Biology Science Live
- ✓ Ecology field work
- ✓ Brain Day with Dr Guy Sutton
- ✓ Researching conservation strategies at Chester Zoo
- ✓ Dissection Club

WHAT COURSES ARE ON OFFER?

At Stonyhurst we offer a selection of courses in Biology. Please talk to a member of the teaching staff for more information on courses.

A LEVEL BIOLOGY EDEXCEL (SNAB)

Year 1

- ✓ Lifestyle, Health and Risk
- ✓ Genes and Health
- ✓ Voice of the Genome
- ✓ Biodiversity and Natural Resources
- ✓ Experimental Methods and Core Practicals

Year 2

- ✓ On the Wild Side
- ✓ Immunity, Infection and Forensics
- ✓ Run for Your Life
- ✓ Grey Matter
- ✓ Experimental Methods and Core Practicals

INTERNATIONAL BACCALAUREATE

Biology is a Group 4 option, available at Standard or Higher Level.

Standard Level (SL)

- ✓ Cell Biology
- ✓ Molecular Biology
- ✓ Genetics
- ✓ Ecology
- ✓ Evolution
- ✓ Biodiversity
- ✓ Human Physiology
- ✓ Nucleic acids

Higher Level (HL)

Additional Units

- ✓ Respiration and Photosynthesis
- ✓ Plant Biology
- ✓ Genetics and Evolution
- ✓ Animal Physiology
- ✓ Additional Human Physiology

Our IB Diploma Programme is designed to produce highly-educated all-rounders who embrace social responsibility, intercultural awareness, and a duty to local and global communities to make an increasingly complex world a better place.



Watch
Scan the QR code for more information on the subject

www.stonyhurst.ac.uk

LDS

