CELL BIOLOGY
BSc (Hons)

ARE YOU STIRLING?
WHY STUDY CELL BIOLOGY?
84% of students are satisfied overall with the quality of the course (Key Information Statistics).

The Cell Biology degree at the University of Stirling offers a unique interdisciplinary training in areas which underpin modern biology.

The study of biological systems at cellular and subcellular levels is key to understanding how organisms develop, how they respond to their environment and how the diseased state differs from the healthy state.

Recent advances in cell biology are enabling cell biologists to:
- Understand the basis of diseases in humans, animals and plants
- Develop novel treatments and therapies for diseases
- Explore the processes associated with ageing
- Improve the quality and quantity of important food crops
- Develop novel and sustainable fuels
- Assess the impacts of environmental changes on biological systems

COURSE DETAILS
In Years 1 and 2 you will take core modules in:
- Cell Biology, Physiology, Evolution and Genetics, and Biodiversity
- Practical Laboratory Skills and Skills for Cell Biologists
- Additional modules in other disciplines. The majority of students select from the core modules offered in Biological or Environmental Sciences or Aquatic Sciences.

In Year 3, you will take modules in:
- Enzymes and their Applications
- Animal Physiology
- Microbiology
- The Animal Cell

You will also take one module from the following options: Changing Oceans, Applied Immunology, Behavioural Ecology, Plant Ecology, Applied Biological Sciences Placement

REASONS TO CHOOSE THIS COURSE

1 OPPORTUNITIES TO STUDY ABROAD
As a Cell Biology student, you can study abroad in your third year. There are well-established links to universities in the US and Canada, as well as new exchange programmes to European universities.

2 RECEIVE EXCELLENT TEACHING IN CELL BIOLOGY
Teaching provision in Cell Biology has been assessed by the Scottish Funding Council and rated as ‘highly satisfactory’.

3 BE PART OF AN INTERNATIONALLY RECOGNISED INSTITUTION
We’ve got a prestigious 5-star ranking in the QS Stars (QS World University Rankings, 2014)

93% OF OUR CELL BIOLOGY STUDENTS SAY OUR STAFF MAKE THE SUBJECT INTERESTING
Unistats 2016
In your final year you will undertake an independent research project and a number of advanced modules from a range of options which currently include:

- Molecular Techniques*
- Omics and Systems Biology*
- Molecular Evolution and Phylogenetics*
- Biological Control Mechanisms *

* These modules are required

Additional student costs are kept as low as possible, but include the purchase of a lab coat and some personal lab kit as well as travel expenses for the optional third year placement module.

**WHY CHOOSE STIRLING?**

Biological and Environmental Sciences (BES) sits within the Faculty of Natural Sciences and is a multi-disciplinary department that participates in research and teaching in a broad range of subjects in the biological and environmental sciences.

BES is a friendly, vibrant, and dynamic place in which to learn and research with a great sense of belonging engendered in our students from their very first days at the University.

Research-led teaching is the key to deep learning and understanding. The academic staff in Biological and Environmental Sciences at Stirling are typically world leaders in their respective fields, thus ensuring that research-led teaching is at the core of all of our courses.

“I chose Cell Biology at Stirling because of the interdisciplinary training which provides a good combination of practical and theoretical courses. It provided me with the option of choosing a diverse range of topics within the first two years of study and then focusing solely on my chosen degree.”

Niki McAllister,
Year 4 Cell Biology student.

**CAREER OPPORTUNITIES**

90% of graduates go on to work or further study within six months of graduation (Key Information Statistics).

Cell Biology graduates from Stirling may follow careers in the pharmaceutical, healthcare and biomedical, biotechnology, and agricultural industries. Other career paths may include the civil service, forensic science, teaching, the food industry, and government and industrial research laboratories.
## TYPICAL TIMETABLE

<table>
<thead>
<tr>
<th>YEAR</th>
<th>SEMESTER</th>
<th>MODULE 1</th>
<th>MODULE 2</th>
<th>MODULE 3</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Introduction to Cell Biology</td>
<td>Laboratory Skills</td>
<td>Option Subject</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Introduction to Physiology</td>
<td>Option subject</td>
<td>Option Subject</td>
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<tr>
<td>2</td>
<td>3</td>
<td>Evolution and Genetics</td>
<td>Skills for Cell Biologists</td>
<td>Option Subject</td>
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<tr>
<td></td>
<td>4</td>
<td>Biodiversity</td>
<td>Statistical Techniques</td>
<td>Option Subject</td>
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<tr>
<td>3</td>
<td>5</td>
<td>Enzymes and their Applications</td>
<td>Animal Physiology</td>
<td>Microbiology</td>
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<td></td>
<td>6</td>
<td>The Animal Cell</td>
<td>2 modules from: Changing Oceans, Applied Immunology, Behavioural Ecology, Plant Ecology, Applied Biological Sciences Placement</td>
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</tr>
<tr>
<td>4</td>
<td>7</td>
<td>Molecular Techniques</td>
<td>Omics and Systems Biology</td>
<td>Molecular Evolution and Phylogenetics</td>
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<tr>
<td></td>
<td>8</td>
<td>Individual Research Project</td>
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</tbody>
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**COMPULSORY MODULES**

Options may vary throughout

## CONTACT

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JOIN OUR COMMUNITY

ARE YOU STIRLING?

05/19