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:

- Detect, prevent and treat disease in both animal and plant systems
- 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, Genes and Evolution, and Biodiversity
- Practical Skills in the Biological and Environmental Sciences and Quantitative Techniques
- Additional modules in other disciplines. The majority of students select from the core modules offered in Environmental Science and Aquatic Sciences

In Year 3, you will take modules in:
- Cancer Cell Molecular Biology
- Animal Physiology
- Microbiology
- Immunology
- Animal Cell Biology

You will also take one module from the following options: Animal Ecology, Oceanography, Plant Ecology and Physiology.
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:

- Immunology and Disease*
- Molecular Techniques*
- Molecular Evolution and Phylogenetics*
- Proteomics & Systems Biology*
- Cell Birth, Life and Death*
- The Evolution of Sex
- Systems Biology
- Advanced Molecular Genetics

* These modules are required

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>
</thead>
<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>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>Evolution &amp; Genetics</td>
<td>Biology Field Course</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>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>Enzymes and their Applications</td>
<td>Animal Physiology</td>
<td>Microbiology</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>The Animal Cell</td>
<td>2 modules of: Applied Immunology, Oceanography and Limnology, Plant Ecology</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>7</td>
<td>Individual Research Project (3 modules)</td>
<td>Molecular Techniques &amp; Proteomics</td>
<td>Molecular Evolution and Phylo-genetics &amp; 1 Option</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td></td>
<td></td>
<td>Cell Birth, Life and Death &amp; 1 Option (see below)</td>
</tr>
</tbody>
</table>

Options may vary throughout.

## Compulsory Modules

## Options for Semester 7&8:

- Genetic Engineering
- Molecular Techniques 2
- Conservation Biology
- The Evolution of Sex
- Conservation Genetics
- Immunology and Evolution of Infectious Diseases

## Contact

**Dr. Jenson Lim**  
**Faculty of Natural Sciences**  
T: +44 (0) 1786 467821  
E: jenson.lim@stir.ac.uk  
W: stir.ac.uk/natural-sciences

**Student Recruitment and Admissions**  
T: +44 (0) 1786 467046  
E: recruitment@stir.ac.uk

stir.ac.uk/65

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ARE YOU STIRLING?