

# WHY STUDY ECOLOGY AT IMPERIAL?

INFORMATION FOR STUDENTS

## WHAT'S ECOLOGY FOR?

Our world is changing fast. With the climate warming, wildlife disappearing, diseases spreading and the demand for food constantly increasing, we need radical solutions to environmental challenges. Ecology provides the answers.

At Imperial, you'll learn how ecology can be applied from the scale of cells and genomes all the way up to global ecosystems. You'll be taught by world-leading researchers about current challenges and the skills needed to address them.

You'll find out how the diversity of life on Earth evolved, how it works in terms of ecological processes, and how to devise environmental policies that can maintain healthy ecosystems for future generations.

From discovering the evolutionary origins of biodiversity itself to modelling the spread of zombie outbreaks, the ecology stream at Imperial is designed to expand the mind and provide world-class training in much-needed skills.

## IT'S NOT JUST COUNTING PLANTS?

### Developing real-world skills

#### Knowledge

You'll learn to apply deep ecological knowledge to address contemporary problems in ecology and environmental biology.

#### Research skills

Our modules allow you to choose the skillset you want to develop; whether you fancy working outdoors collecting data or in the comfort of the lab running analyses, you're in control of choosing the types of research you want to explore.

#### Analytical skills

You'll be taught how to use statistics, bioinformatics and programming languages to analyse your own data to solve complex real-world problems...  
No prior programming experience needed!

#### Communication

You'll learn to explain ecological concepts and solutions to a range of audiences and you'll build up the confidence needed to convey this information in different settings.

## TESTIMONIALS

"Studying at Imperial inspired a lifelong passion for ecology and the environment"

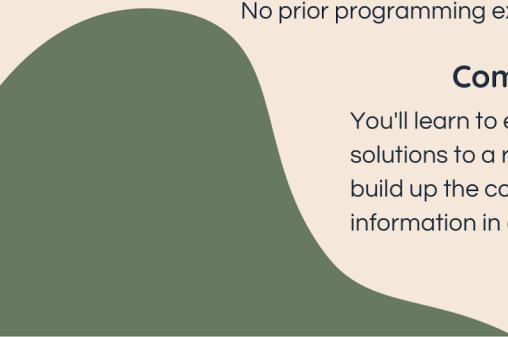
- Sorrell, BSc Biological Sciences

"Ecology modules at imperial have been some of my most enjoyable – very well organised & with really engaging lecturers. These modules cover content in a very holistic way, and are great for learning how to view a problem in its wider context"

- Dalvinder, BSc Biological Sciences

"The real-world focus of ecology at Imperial prepared me to understand conflicts of interest between groups. The teaching of theory and applications has definitely helped me to cross the science-policy bridge, for which I am very grateful"

- Joe, BSc Ecology and Environmental Biology



## ECOLOGY STREAM OPTIONS



### YEAR 1 - Fundamentals in:

- Ecology & Evolution
- Evolution & Diversity

### YEAR 2 - Specialist topics in:

- Behavioural Ecology
- Bioinformatics, Programming & Statistics
- Essentials of Ecology
- Vertebrate Form & Evolution
- Ecological Field Skills

### YEAR 3 - Specialist topics in:

- Biodiversity & Conservation Biology
- Evolutionary Biology
- Symbiosis, Plant Immunity & Disease
- The Microbiome
- Biodiversity Genomics
- Disease Ecology and Epidemiology
- Global Change Biology
- African Biology Field Course

### Next steps - Master's courses:

For anyone wanting to continue their ecology training, we offer a wide range of 1-year MRes and MSc options, including:

- Ecosystem & Environmental Change
- Computational Methods in Ecology & Evolution
- Taxonomy, Biodiversity and Evolution
- Ecology, Evolution & Conservation
- Ecological Applications
- Tropical Forest Ecology

## CAREER PATHS

Where do Imperial Ecologists end up?

Development agencies

Data Scientists

Environmental NGOs

Consultancy

Civil Service

Charities

Finance

Research

Teaching

Pharma

Policy

Medicine

Industry

Start-ups

Agriculture

## MIX N' MATCH MODULES

A big fan of immunology but also want to dip your toe into ecology? Fear not!

You can mix up modules throughout your degree. So if you fancy some neuroscience along with your global change biology, you're at the right place!

And the ecology modules have no pre-requisites, meaning they can be taken with no prior ecological experience.

