

## FREIBURG »GREEN CITY«

Freiburg has gained its name and reputation as a "Green City" thanks to its high environmental standards, innovative research and development, and its general attitude towards the environment. With extensive use of solar energy and other renewable sources,

the city attracts researchers and environmental organizations from around the world. But Freiburg is green not only because of its policies and

politics. No other city of comparable size (220,000 inhabitants) has such a diversity of landscapes ranging from the mountains of the Black Forest, to Mediterranean-type vegetation in the Rhine valley.

As one of Germany's most beautiful cities, Freiburg is a traditional, yet also youthful and dynamic university town. Its location near the French and Swiss border make it an ideal starting point to explore Europe.

## FACULTY

The faculty hosts Environmental Sciences together with Forest Sciences, Geosciences and Geography. A wide range

of related Bachelor and Master programmes are offered. Core fields of research are the sustainable use of natural resources, protection of natural life resources

(water, soil, air and biodiversity) and adaptation to Global Change (ecosystems, human-environment systems) such as natural hazards and risks.



Faculty Building



Field Internship Wildlife Ecology

## FACTS AND FIGURES

Duration:	4 semesters
	120 ECTS credits
Course start:	October
Language of instruction:	German and English
Application deadline:	July 15th

## CONTACT

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## m.sc. Programme environmental sciences



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# INTERDISCIPLINARY BILINGUAL BIODIVERSITY GLOBAL CHANGE ECOSYSTEM management METHODS EXPERTISE

## m.sc. environmental sciences

Environmental Sciences is a discipline exploring the **impact of humans on the environment**. At Freiburg University the focus is on the sustainable use of **terrestrial ecosystems**. Close links to Forest Sciences, Geosciences, Geography and Hydrology allow students to benefit from a **great variety of methodological approaches** and disciplinary perspectives. To address the complexity of environmental problems **the integration of ecological and socioeconomic knowledge** is key and this is reflected in the design of the programme.

The MSc Environmental Science is a research oriented programme, but still, most modules include **excursions, case studies or lab work** and thus ensures that students also gain practical experience to solving emerging environmental issues.



Plant experiment in climatic chamber

## CURRICULUM

The master course is a two-year (4-semester) full-time programme (120 ECTS). Teaching is organized in three-week **block modules**. During the first and the second semester students participate in **5 core modules and 6 modules from their chosen elective track**. Whereas the core modules can be chosen from a pool of modules, the elective track modules are more fixed. The third semester offers a great variety of individual electives and allows students to build their personal programme. The mandatory 7-week **internship** is scheduled for the break between the second and third semester, but can also take place at any other time. The fourth semester is entirely for writing the **master thesis**.



Surroundings of Freiburg

## HIGHLIGHTS

The division of the programme into elective tracks, and the flexible choice of courses via core and elective modules allow students an opportunity to build their **individual academic profile**. The huge variety of natural landscapes around Freiburg provides the best opportunities for **varied field studies** and **field trips**.



Data collection using drone

## TARGET GROUP

The master course is offered for graduates of appropriate Bachelor programmes such as Environmental Sciences, Forest Sciences, Geography, Nature conservation and protection, Biology, Ecology, Natural Resource Management. The programme can be started in the winter term only.

## CAREER PERSPECTIVES

The Master (M.Sc.) Environmental Sciences is an internationally recognized degree that prepares graduates for jobs in research, **environmental protection** and restoration (e.g. engineering offices), in **planning offices**, government administrations or NGOs, as well as land use management, **development aid**, environmental education, or **science journalism**.

### 1<sup>st</sup> SEMESTER

- › Research Skills
- › Ecosystem Processes and Functioning
- › Environmental Policy
- › Environmental Economics
- › **Forschungskompetenzen**
- › Landnutzung und Naturschutz
- › Ökologie des Klimawandels
- › Environmental Modelling and GIS
- › Wildlife and Biodiversity
- › Biomaterials and Bioenergy

### 2<sup>nd</sup> SEMESTER

- › Ecosystem Management
- › Field Ecology
- › Nachhaltiges Energie- und Stoffstrommanagement
- › Landnutzung und Naturschutz
- › Ökologie des Klimawandels
- › Environmental Modelling and GIS
- › Wildlife and Biodiversity
- › Biomaterials and Bioenergy

### 3<sup>rd</sup> SEMESTER

- › Internship (7 weeks)
- › 5 Individual Elective Modules

Possibility for studying abroad

### 4<sup>th</sup> SEMESTER

- › Master Thesis (6 months)

= Core Modules  
= Elective Track Modules (3 modules to choose)  
= Individual Electives / Internship