

Master of Science (MSc) in Behaviour, Evolution  
and Conservation  
specialisation in

# Geoscience, ecology and environment



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[www.unil.ch/ecoledebiologie/en](http://www.unil.ch/ecoledebiologie/en)

## OBJECTIVES / ASSETS

Ecology is the integrated study of organisms in their biotope, and thus requires knowledge on the physical environment, which is also often required in evolutionary biology studies. The Geoscience, Ecology and Environment specialisation (GEE) allows biology students to gather a complementary training in geo- and environmental sciences, with a particular focus on mountain systems, resulting in a synthetic view of ecosystems that can then be used in practical or fundamental studies in ecology and evolution.

## CONTENT

- Advanced complementary training in geo- and environmental sciences.
- A selection of courses in geoscience, environment, ecology, biodiversity and conservation, as well as in field and laboratory data sampling (inc. environmental metagenomics), analysis and modelling.
- The specialisation requires a First-step research project and a Master project, in separate research groups, conducted on an approved Geoscience, Ecology and Environment topic.

### MANDATORY COURSES

- Scientific writing
- Ecology
- Evolution
- Data Analysis
- Spatial Analysis and Geographic Information
- System in Ecology

### MANDATORY INTERDISCIPLINARY COURSES IN MOUNTAIN ECOSYSTEMS - PATTERNS & PROCESSES

- Lecture series on key aspects of mountain Ecology & Evolution
- Lecture series on key aspects of mountain Geo-Environmental Sciences
- Practical research training in the Alps

### OPTIONAL COURSES

- Large choice of disciplinary and crossdisciplinary courses

### PROJECTS

- First step research project in the field of the specialisation
- Master research project in the field of the specialisation

## GENERAL INFORMATION

The Master of Science (MSc) in Behaviour, Evolution and Conservation (BEC) amounts to 120 ECTS and is taught entirely in English, although a few optional courses offered to GEE students can have parts in French. BEC students may obtain the Master without specialisation, or with a specialisation in Geoscience, Ecology and Environment (GEE), Behaviour, Economics and Evolution (BEE), or Computational Ecology and Evolution (CEE).

## ADMISSION REQUIREMENTS

Candidates to the Master BEC must hold a Bachelor of Science (BSc) in Biology or in a field considered to be equivalent awarded by a Swiss university. Another degree awarded by a foreign university may be judged equivalent and give access to the Master, with or without further conditions.

## CONDITIONS FOR OBTAINING THE QUALIFICATIONS OF MASTER'S DEGREE WITH SPECIALISATION

[www.unil.ch/eb-bec](http://www.unil.ch/eb-bec) > Study programme > Regulations and directives

To obtain the GEE specialisation, you must choose and pass your First-step project and your Master research project within the field of the specialisation.

If you want to obtain the Master's degree with a specialisation, you must indicate your choice to the School of Biology when enrolling for your personal Master research project.

### Director of the programme

Prof. Tadeusz Kawecki

### Responsible for the specialisation

Prof. Antoine Guisan

### Further information

[www.unil.ch/eb-bec](http://www.unil.ch/eb-bec) > Geoscience, Ecology and Environment