

| le savoir vivant |

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

Geosciences, ecology and environment



Unil

UNIL | Université de Lausanne

Faculté de biologie
et de médecine

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 Geosciences, 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

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

MANDATORY COURSES

- Scientific writing
- Ecology
- Evolution
- Data Analysis
- Spatial Analysis and Geographic Information
- Systems 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. BEC students may obtain the Master without specialisation, or with a specialisation in Geosciences, Ecology and Environment (GEE), Behaviour, Economics and Evolution (BEE), or Computational Ecology and Evolution (CEE).

Teaching language: mainly English, some optional courses in French.

ADMISSION REQUIREMENTS

Candidates to the Master BEC must hold a Bachelor of Science (BSc) from a Swiss university in Biology or in a field considered to be equivalent. Other degrees awarded by a foreign university may be considered equivalent and grant access to the programme with or without further conditions.

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

www.unil.ch/eb-bec > Study programme > Regulations

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

To be awarded the Master's degree with a specialisation, you must communicate 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 > Specialisations > Geosciences, Ecology and Environment