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

Geoscience, Ecology and Environment

www.unil.ch/ecoledebiologie
OBJECTIVES / ASSETS
Ecology is the integrated study of organisms in their biotop, 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 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, separate or in continuation, that must be conducted on an approved Geoscience, Ecology and Environment topic.

MANDATORY COURSES
• Advanced Data Analysis in Biology
• Introduction to Scientific Writing
• 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
• Own case study in the Alps

OPTIONAL COURSES
• Large choice of disciplinary and crossdisciplinary courses

PROJECTS
• First step project in the field of the specialisation
• Master’s thesis in the field of the specialisation

GENERAL INFORMATION
The Master of Science (MSc) in Behaviour, Evolution and Conservation (BEC) amounts to 90 ECTS and can be followed 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 specialisation 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.

STUDY PROGRAMMES
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’s 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 the Master’s thesis.

Head of studies
Prof. Tadeusz Kawecki

Responsible for the specialisation
Prof. Antoine Guisan

Further information
www.unil.ch/eb-bec > Geoscience, Ecology and Environment