



QUANTITATIVE ENVIRONMENTAL SCIENCES

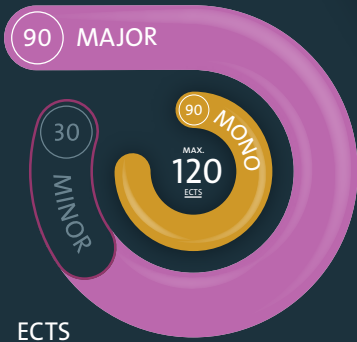
SPECIALIZED
MASTER

Humans are placing unprecedented pressure on the environment. To protect nature, we must understand the response of organisms and natural systems to this pressure through scientific research. Students learn how to design and carry out sound and meaningful research from a teaching staff of experienced scientists. The scientific literacy our students develop supports careers in academia or applied realms like conservation and policy.

GOALS OF PROGRAM

To be an environmental scientist, it is necessary to gain a broad understanding of natural systems. Observations can be made through direct fieldwork, but also through remote sensing, database analyses, lab and through long-term data collection projects. Courses within this Masters give students the opportunity to explore different mechanisms behind global change from the perspective of flora, fauna and human society. Students will gain an understanding of how to effectively design experiments, collect data, and analyze and interpret such data using state-of-the-art quantitative approaches. The insight obtained can be useful for scientists, policymakers, and community members. Elective courses or internships give students a further opportunity to deeply investigate areas of interest.





ECTS



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PROFESSIONAL PERSPECTIVES

In this time of global change, students enrolled in an Environmental Science Masters will find many opportunities to engage in a career focused on the natural sciences. Opportunities exist in governmental agencies, non-profit organizations and consulting firms. The World Wildlife Fund, United Nations Intergovernmental Panel on Climate Change, and Greenpeace are just a few examples of agencies that offer positions for environmental scientists.

ADMISSION

First, students have to apply for the Master's Study Program in Quantitative Environmental Sciences at the Department of Evolutionary Biology and Environmental Studies (application form, secondary school-leaving certificate, Bachelor's degree diploma, transcript of records, curriculum vitae, recommendation form). After acceptance, students can apply for the matriculation at the University of Zurich.

SPECIALIZED MASTER: QUANTITATIVE ENVIRONMENTAL SCIENCES

MONO
90
ECTS

MAJOR
90
ECTS

MASTER STUDY PROGRAM

The Master's Study Program consists of courses in environmental sciences and an independent research thesis. The program spans three semesters for full-time students, for a total of 90 ECTS credits. The majority of coursework takes place during the first semester and consists of both weekly courses and block courses.

In addition, the field course in the Swiss Alps (in August before the first semester) provides insight into a natural environment with a high biodiversity to understand the distribution of biodiversity across different taxa, a practical assessment to characterize it, and tools and approaches to study it.

POSSIBLE MINOR COMBINATIONS

30 MINOR
ECTS

In your Master's studies you can combine a major study program with a minor study program earning 30 ECTS credits. With an additional minor study program, students can expand individually as a function of their interests their competencies to round out for the job market.

The minor program can be chosen from among the entire range of subjects.

- Biochemistry
- Bioinformatics
- Biology
- Chemistry
- Earth System Sciences
- Geography
- Mathematics
- Physics

CONTACT

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TO ADMISSION PAGE



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