

NECESSARY SKILLS

The program is open to qualified bachelor's graduates with a degree in biosciences or life sciences. Graduates from other disciplines can be admitted after a case-by-case examination, provided that they have a strong connection to topics such as zoology, botany, ecology, evolution, or physiology. In addition, proof of English language skills at level B2 (CEFR) or alternatively proof of at least seven years of school English is a prerequisite for admission.

WHAT THIS SUBJECT IS ABOUT

The program focuses on organismic-ecological research and teaching. Special emphasis is placed on understanding changes in biodiversity, analysing its pattern in space and time, and finding solutions for its protection.

The Master's program „Biodiversity, Ecology and Evolution“ aims to train graduates to independently identify and structure problems in research and/or practice and to answer them by selecting and applying appropriate scientific methods. During their studies, students receive a broad methodological training that includes both field and laboratory methods. Knowledge in the following fields is imparted:

- Ecological field and laboratory methods
- Recording and analysis of biodiversity
- Palaeoecological analyses
- Modelling, GIS analyses
- Behavioral analysis, telemetry
- Morphological analyses (histology, TEM, REM, μ CT, CLSM)
- Phylogenetic analyses
- Population Genetics
- Environmental analytical methods (TOC, HPLC, GC, GC-MS)
- Microbiological analyses, immunology
- Quantitative and molecular genetics
- Protein biochemical analyses
- Database Management
- Statistical analyses

GRADUATES OF THIS SUBJECT WORK IN ...

The career prospects for graduates of the M.Sc. program in Biodiversity, Ecology and Evolution are primarily in the scientific (universities, universities of applied sciences, research institutes), but also in other governmental (environmental authorities, water management offices, political consulting, museums, botanical and zoological gardens) and economic sectors (e.g. expert and planning offices, agricultural industry, food industry, pest control, biotechnology, clinical laboratories, medical technology, pharmaceutical industry, publishing houses and media). A further qualification with a doctorate is possible after graduation.



GENERAL INFORMATION ABOUT THE STUDY PROGRAM

The study program M.Sc. Biodiversity, Ecology and Evolution is characterized by a high degree of flexibility. Ranging from the start of the program, which is possible in both the winter and summer semesters, to the free choice and combination of the advanced modules. This allows for a personal focus in the fields of animal ecology and evolution, plant ecology and evolution, or microecology, among others. In addition, the study program includes a high proportion of exercises and practical training in the laboratory and in the field. With the Mobility Module, stays abroad can be easily integrated into the study program.

From the winter semester 2021/22 onwards, the teaching language of the program will be English. This should on the one hand increase the ability to work internationally and on the other hand give foreign students the opportunity to study in Germany.

