



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



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Master's degree



Biodiversity Sciences

Martin Luther University Halle-Wittenberg • Halle (Saale)

Overview

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| Degree | Master of Science (MSc) |
| Teaching language | <ul style="list-style-type: none">English |
| Languages | Courses are held in English. The Master's thesis will be written in English. |
| Programme duration | 4 semesters |
| Beginning | Winter semester |
| Application deadline | https://studienangebot.uni-halle.de/biodiversity-sciences-master-120#bewerbung-einschreibung |
| Tuition fees per semester in EUR | None |
| Combined Master's degree / PhD programme | No |
| Joint degree / double degree programme | No |
| Description/content | <p>The international MSc Biodiversity Sciences Master's programme aims to scientifically convey how the state and changes of biodiversity can be quantified across space and time, the underlying evolutionary and ecological processes, and what consequences arise from biodiversity changes for humans. Biodiversity forms the foundation for all ecosystem functions and human well-being on Earth. While the study programme is based on the fundamentals of the natural sciences, it has a strong interdisciplinary component. In the last decades, we have encountered a dramatic loss in as well as the restructuring of biodiversity. As biodiversity and its change are strongly linked to society, the programme has a strong interdisciplinary component, addressing the options of how biodiversity can be maintained and integrated into the management of our planet's resources. To achieve these goals, various disciplines are engaged in the Master's programme, from organismic to molecular biology, biogeochemistry, landscape ecology, natural resource management, and bioinformatics to interfaces with socio-ecological sciences.</p> <p>The consecutive study programme has a strong research orientation, enabling students to work systematically and scientifically and to conduct independent scientific research. Other important study goals include interdisciplinary knowledge as well as communication and teamwork skills. The international character of scientific research is taken into account by conducting the study programme, i.e. the lectures and examinations, entirely in English.</p> <p>The study programme is embedded in numerous research projects carried out at Halle University (MLU). MLU, together with partner research centres, such as the German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, offer a large number of research platforms that are open for students' projects. iDiv is a global hotspot in biodiversity science, with about 800 scientists in Central Germany working jointly and across disciplines on the key questions of biodiversity</p> |

science. In this context, MSc Biodiversity Sciences promotes cooperation between the various Master's programmes in the field of biodiversity sciences at the universities of the Halle-Jena-Leipzig university network. Participation in modules in the corresponding study programmes is encouraged and can be recognised.

The programme qualifies graduates for positions in research and applied fields:

- Basic research on all aspects of biodiversity
- Subject-specific teaching tasks
- International development cooperation on biodiversity conservation
- Private sector: consulting, management, and planning
- Public sector: biodiversity monitoring and administration
- Political consultancy
- The programme will also qualify you for PhD positions.

Course Details

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| Course organisation | <p>A: Compulsory modules (75 CP)</p> <ul style="list-style-type: none"> • Design of research studies • Statistics in Biodiversity Sciences • Excursions in botany and zoology • Research internship • Project study • Master's thesis <p>B: Project modules (Elective modules) (45 CP)</p> <ul style="list-style-type: none"> • Methods of Systematic Botany • General Zoology • Field Ecology • Nature Conservation • Spatial Ecology and Modelling • Collections and Biodiversity Research • Modelling Species Distribution and Biodiversity Patterns • Spatial Modelling, Scenario Development, and Impact Assessment • Soil Biogeochemical Analysis • Matter and Material Flow Analysis • Management of Soil Organic Matter • Statistical Data Analysis and Machine Learning in Biodiversity Research • Computational Transcriptomics • Computational Molecular Phylogenetics • Computational Sequence Analysis <p>The content, learning objectives, workload, requirements, and prerequisites of specific modules are published in the module catalogue and in the study and examination regulations, respectively.</p> |
| A Diploma supplement will be issued | Yes |
| International elements | <ul style="list-style-type: none"> • Study trips • Projects with partners in Germany and abroad |
| Course-specific, integrated German language courses | No |
| Course-specific, integrated English language courses | No |

Costs / Funding

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| Tuition fees per semester in EUR | None |
| Semester contribution | Approx. 200 EUR per semester |
| Costs of living | Approx. 600 EUR per month |
| Funding opportunities within the university | No |

Requirements / Registration

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| Academic admission requirements | Applicants for the MSc Biodiversity Sciences must hold a Bachelor's degree or equivalent degree in one of the following fields of studies: biology, ecology, biogeochemistry, landscape ecology, natural resource management, or bioinformatics. Furthermore, graduates of a comparable study programme can be admitted. Comprehensive knowledge of organismic biology and species identification (as well as experimental skills or experience in observational studies) is essential. Basic knowledge in ecology, landscape ecology, biogeochemistry, natural resource management, bioinformatics, mathematics, and statistics as well as socio-ecological sciences are additionally required. Decisions regarding compliance with the subject-specific requirements and, if applicable, the admission requirements will be taken by the selection committee in accordance with the selection regulations. |
| Language requirements | Applicants must prove their English-language proficiency by submitting either TOEFL, IELTS, Cambridge Certificate, Unicert II, German Abitur, or an equivalent internationally recognised language certificate at testing level B2 according to the Common European Framework of Reference for Languages (CEFR). However, proof of language proficiency is not required if the first degree was obtained in a study programme that was taught in English. |
| Application deadline | https://studienangebot.uni-halle.de/biodiversity-sciences-master-120#bewerbung-einschreibung |
| Submit application to | Applicants who obtained a Bachelor's degree (or equivalent) in Germany must apply via www.uni-halle.de/bewerben . Applicants who obtained a Bachelor's degree (or equivalent) abroad must apply via www.uni-assist.de . |

Services

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| Possibility of finding part-time employment | There are many offers for student assistant positions. |
| Accommodation | https://www.ich-will-wissen.de/studentenleben-in-halle/wohnen-in-halle/#leben-in-halle |

<https://www.studentenwerk-halle.de/>

Support for international students and doctoral candidates

- Welcome event
- Tutors

Supervisor-student ratio

1:2

Contact

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🌐 Course website: https://www.botanik.uni-halle.de/biodiversity_sciences/

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International Programmes in Germany - Database

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Disclaimer

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