

Ecotoxicology

Considering the increasing use of chemicals, it is essential to analyse their impacts on the biotic environment and to develop and apply methods for exposure and effect assessment as well as for risk management. This is the aim of ecotoxicology, which as an interdisciplinary science discipline integrates concepts of environmental chemistry, toxicology and ecology.

The Master's program Ecotoxicology is one of the first possibilities to study this subject at a German university. It was developed following the philosophy that ecotoxicology is a discipline strongly linked with ecology and as such considers effects on the individual, population, community



and ecosystem scale in its respective spatial context. The program benefits from the wide variety of ecotoxicological research in Landau.

A well-balanced combination of theoretical and practical courses at the university and internships at other research organisations prepares the graduates for many employment opportunities in an upcoming field of science with good career perspectives.



Course contents

The Master's program provides a competent education in ecotoxicology along with a basic and application-oriented understanding of the fate, distribution, effects, risk assessment and risk management of chemicals in the environment. Profound knowledge and competences in the fields of principles and methods of ecotoxicology and environmental analysis, regulatory background as well as monitoring, statistics, modelling, assessment and management in ecotoxicology are taught. In addition an insight into other courses such as applied environmental chemistry & physics (ACP), applied ecology (AÖK), geoecology (GEO) and socioeconomics & environmental management (SÖU) promotes an interdisciplinary perception and the development of integrative approaches.

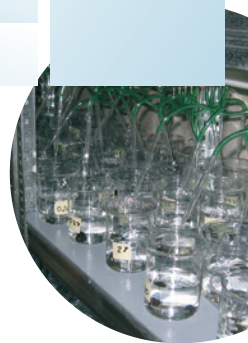
Special components of the program are an eight-week internship (Applied Module at External Organisations), which can be performed at an external research institute or industry partner in Germany or abroad, and the Research Project Course, during which the students participate in a research project of the university for ten weeks.

The degree is to be completed with the Master's thesis and an additional colloquium.

Structure (2 years)

1 st semester	2 nd semester	3 rd semester	4 th semester
Compulsory (11 modules, 77 CP)			
Compulsory modules Ecotoxicology (9 modules, 55 CP)			
Applied Module at External Organisations (1 module, 10 CP)		Research Project Course (1 module, 12 CP)	Master's thesis with colloquium (30 CP)
Optional (2 modules, 12 CP) from the subjects ACP, AÖK, GEO, SÖU			
Excursions (1 CP)			

CP = Credit Points



Studying ECOTOXICOLOGY - (almost) unique in Germany

International cooperations and study visits



Employment prospects

The Master's program enables the graduates to conduct independent scientific work and prepares for leading positions in the numerous emerging fields of Ecotoxicology:

- Scientific facilities and research institutes,
- Authorities, public offices and ministries on the subject of crop protection and chemical safety,
- Industry,
- Consulting enterprises.

The international orientation of the program qualifies the graduates for an international job market.

Admission requirements

Students with a bachelor degree in environmental sciences, natural sciences or geo sciences can apply for the Master's program.

They should have a strong interest in interdisciplinary application-oriented scientific work. Basic academic knowledge in the fields of ecology, environmental chemistry, geographic information systems and mathematics/statistics is required. If necessary, previous knowledge may be complemented in preparatory courses.

The Master's program is conducted in English language. Therefore good active and passive English language skills are required.

Contact



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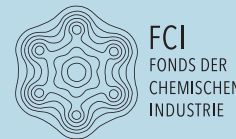
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www.uni-landau.de/umwelt

For detailed information about the Master's program, admission requirements, enrolment etc. please visit:
www.master-ecotoxicology.de

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Master's Program (M.Sc.)

Ecotoxicology

at the Campus Landau/Pfalz
Germany



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