

Universität

Potsdam



Universität Potsdam

# TOXICOLOGY

Master of Science





## Program Content

The research-oriented master's degree program in toxicology conveys comprehensive knowledge about toxicants and their impact on living organisms. You will gain a profound understanding in general toxicology including pharmacology, physiology and pathophysiology, organ toxicology, pathological anatomy as well as histopathology. Furthermore, you will develop a methodological toolkit that enables you to explore and analyze these phenomena. Thereby the knowledge about chemistry, biochemistry and medicine is deepened as well as your practical competences will be extended in analytical chemistry, in vitro toxicology and in vivo toxicology (e.g. experimental animal models in toxicology). You will also be given insights into regulatory processes of risk assessment, risk management and risk communication.

## Program Objective and Future Career Options

As a graduate of the master's degree in toxicology, you will be able to plan and work independently in the field of toxicological science and risk assessment. You will be trained to identify subject-specific problems, find appropriate methods to address them, and present the results of your work in an appropriate form.

Career prospects for our graduates include scientific institutions and universities, chemical/ pharmaceutical/food industry, and governmental authorities. Your analytical training and solid English skills will qualify you for numerous, national and internationally oriented professions.

## Program Structure and Curriculum

The Master's Program of study for the Master Toxicology is held within four semesters with an extend of 120 credit points (CP). In the following table information about weighting of the respective modules are shown.

<b>Modules</b>	
Principles of toxicology	12 CPs
Pharmacology, physiology and pathophysiology	6 CPs
Tissue-specific toxicity and histopathology	6 CPs
Principles in experimental animal toxicity testing	6 CPs
Advanced toxicology	9 CPs
Experimental toxicology	15 CPs
Human toxicology	6 CPs
Applied toxicology, regulatory toxicology and risk assessment	15 CPs
Practical toxicology – industry/authority/scientific institution (preferably abroad)	15 CPs
<b>Master's Thesis</b>	<b>30 CPs</b>
<b>Total</b>	<b>120 CPs</b>

For additional information, please consult the subject-specific Degree Regulations: [www.uni-potsdam.de/en/studium/studying/legalfoundations/studyregulations](http://www.uni-potsdam.de/en/studium/studying/legalfoundations/studyregulations)



## Research Environment

The region Berlin/Brandenburg is one of Germany's emerging centers of toxicology. This master's degree at the University of Potsdam is operated in close cooperation with the German Institute of Human Nutrition (DifE) and the Federal Institute for Risk Assessment (BfR). There is a broad range of toxicological topics covered in ongoing research projects at the participating institutes and you are involved in current toxicological research questions from the very beginning. Our close relations to international groups in the field of toxicology allow you to establish contacts with leading international research institutions, companies and authorities. Developing these contacts at such an early stage will prove invaluable for your future career.

## Prerequisites

Important prerequisites for the master's degree program include a solid foundation in chemistry, biochemistry, food chemistry, nutritional science, biology, pharmacy, medicine or veterinary medicine and a deep interest in toxicology. To enter the master's degree program you must have obtained a Bachelor's degree (180 CP), or another comparable academic degree, in any undergraduate subject relevant to this graduate program. You must provide documentation of at least 60 credit points in medicine or natural sciences with strong relevance to this master's degree program.

As this degree program is taught in English, we expect good English skills that correspond at least to the C1 level of the Common European Reference Framework for Languages.

You can learn more about the subject-specific admission requirements in the respective Admission Regulations: [www.uni-potsdam.de/en/studium/studying/legalfoundations/zulassungsordnungen-fuer-master](http://www.uni-potsdam.de/en/studium/studying/legalfoundations/zulassungsordnungen-fuer-master)

## Application for Studies

Have you decided to study the English-language master's degree in toxicology at the University of Potsdam? Then you should take the next step and get more information about the current application and enrollment procedures at the application website: [www.uni-potsdam.de/en/studium/application-enrollment/application-master](http://www.uni-potsdam.de/en/studium/application-enrollment/application-master)

The course of study starts in the winter semester only.



## Counselling and Contact

### Academic counselling

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[www.uni-potsdam.de/studium/beratung/zsb](http://www.uni-potsdam.de/studium/beratung/zsb)

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