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More information about the degree programme

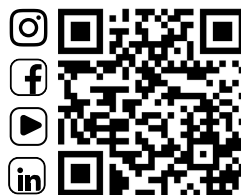
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As of: Juni 2026

Follow us!



➤ Contact

Do you have questions about University of Koblenz and starting your studies with us?

International Relations Office (IRO)

E-Mail international@uni-koblenz.de

Student Affairs Office

Phone +49 261 287-1607

E-Mail studienbuero@uni-koblenz.de

Central Student Advisory Office

Phone +49 261 287-1751

E-Mail studienberatung@uni-koblenz.de

Do you have questions about the content of the Life Science programme?

Academic counselling

E-Mail lifesci@uni-koblenz.de

University of Koblenz

Universitätsstraße 1

56070 Koblenz

Phone +49 0261 287-0

uni-koblenz.de

International Relations Office:



The **University of Koblenz** is one of the youngest universities in Germany – and at the same time has a long academic tradition.

In terms of content, everything revolves around our four profile areas: Education, Computer Sciences, Culture and its Mediation, and Materials and the Environment. These also provide important impetus for teacher training, which plays a central role at the university. Interdisciplinary cooperation, short distances on campus and close networking with the region characterise everyday life at the university. The particularly liveable city of Koblenz and the beautiful location of the university near the Moselle create a perfect environment. Here, everyone knows each other personally, works together to move things forward and can develop big plans. This results in interdisciplinarity and continuous innovation in the academic field, as well as a high-quality and wide range of study programmes that you can use to develop your own educational profile.

Our motto is 'continue discovering'. This reflects our drive to constantly question the familiar and the established in order to gain new insights. Freedom and flexibility are particularly important to us. So that you can develop to your full potential.



Photo credit: University of Koblenz



➤ Master Life Science

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➤ Your profile

The Master’s programme in Life Science is a highly research-oriented and interdisciplinary course of study that builds on a Bachelor’s degree in Life Science, Biology, Chemistry or related fields. It provides advanced knowledge on the organisation and processes of life at the molecular and cellular level, spanning both Molecular and Biomedical Life Science as well as Environmental Life Science. With a strong focus on modern (bio)analytical methods, the programme combines biological and chemical perspectives with intensive experimental training. Students investigate complex biological systems using contemporary analytical approaches and are prepared for research-oriented careers and doctoral studies in life science.

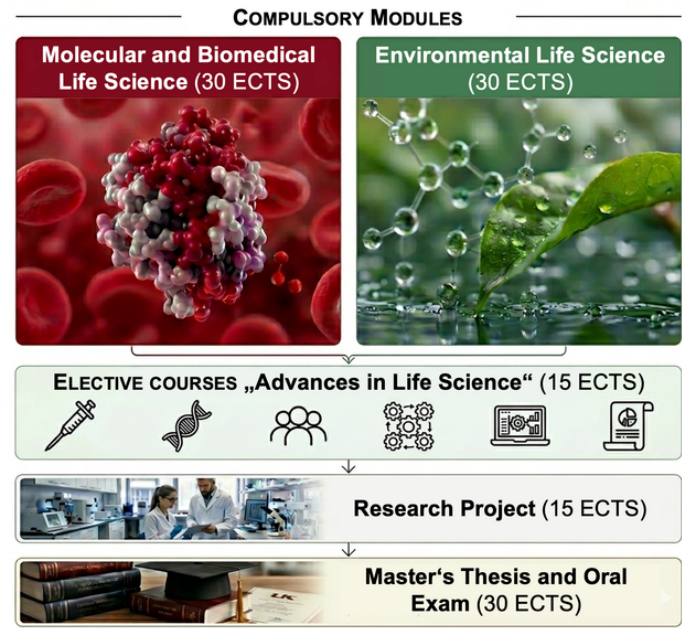
➤ Your studies

The Master’s programme “Life Science” is a highly research-oriented and interdisciplinary study programme that provides advanced subject-specific knowledge, practical laboratory expertise, and analytical skills at the interface of biology and chemistry. It prepares students for further academic qualification, such as doctoral studies, as well as for demanding careers in research and development across the life science. The programme comprises 120 ECTS credits and has a standard duration of four semesters. Courses are taught in English and combine theoretical depth with intensive experimental training.

The compulsory programme is divided into the two complementary focus areas Molecular and Biomedical Life Science (30 ECTS) and Environmental Life Science (30 ECTS). The Molecular and Biomedical Life Science modules include Bioorganic Chemistry, Bioanalytical and Clinical Chemistry, Biotechnology, and Biochemistry. Environmental Life Science covers Cell Biology, Environmental Chemistry, Biodiversity, Ecophysiology, and a Case Study in Environmental Life Science. Together, these modules provide a comprehensive understanding of life processes from molecular and biomedical mechanisms to environmental interactions.

A central element of the programme is the Research Project (15 ECTS), which enables students to engage with current scientific questions and develop independent research skills.

In the compulsory elective area “Advances in Life Science” (15 ECTS), students may select between courses taught in English or German and can tailor their studies according to their interests by selecting from specialised modules, such as Parasitology, Conservation Biology, Global Change Ecology, Microbial Ecology, and Food Chemistry. The programme concludes with the Master’s Thesis (30 ECTS), offering the opportunity to conduct independent research at a high scientific level and to prepare for doctoral studies or research-oriented professional careers.



➤ Semester abroad

A semester abroad can be integrated into the programme and is strongly encouraged. Students receive subject-specific advice on academic matters, while general information and guidance are provided by the International Relations Office.

➤ Research cooperations

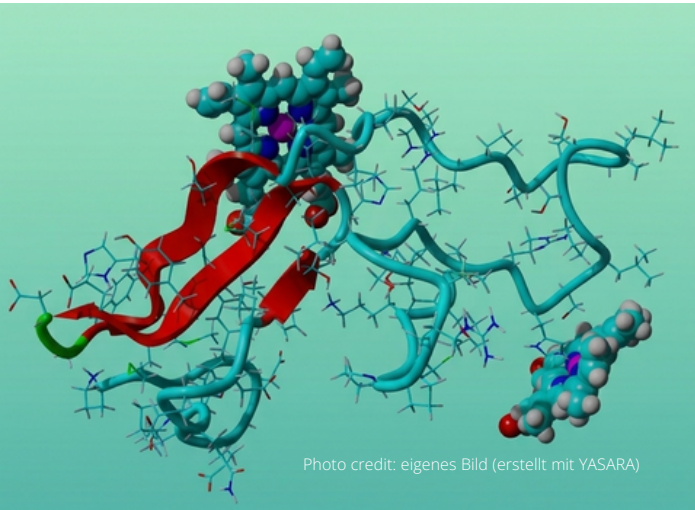
The university cooperates closely with the German Federal Institute of Hydrology in Koblenz, with universities in Rwanda and Madagascar as well as various other research institutions in Germany and abroad.

➤ Your career prospects

As a graduate, you will be equipped with advanced scientific expertise and practical research skills to address some of today's most pressing challenges in biotechnology, biomedicine, and environmental science. The interdisciplinary and highly research-oriented profile of the programme opens diverse career opportunities in research and development, biotechnology and pharmaceutical industries, environmental analysis, and scientific administration. With its strong focus on modern experimental and bioanalytical methods, the programme prepares you to work in innovative and international scientific environments at the interface of biology and chemistry. At the same time, the Master's programme provides an excellent foundation for a doctoral degree. Combining Molecular and Biomedical Life Science with Environmental Life Science, it enables graduates to pursue specialised research careers and to contribute to scientific advances in areas ranging from human health to environmental sustainability and biotechnological innovation.

➤ Faculty of Mathematics and Natural Sciences

The Faculty of Mathematics and Natural Sciences includes all the disciplines of the natural sciences, mathematics, and sport science. The Master’s programme “Life Science” is organised by the Institute for Integrated Natural Sciences within the departments of Chemistry and Biology.



Life Science	
Degree	Master of Science (MSc)
Standard period of study	4
Start of programme	Summer and winter term
Teaching language	English
Admission restriction	No
Admission requirements	- B.Sc. in “Angewandte Naturwissenschaften” with specialisation in chemistry/ biology at the University of Koblenz or any related degree in the subjects chemistry, biology, biochemistry, or biotechnology (final grade 2.5 or better). - Basic experience concerning practical work in organic chemistry, biochemistry or biotechnology of 10 ECTS is required. - Prerequisites include a. Basics and applications of general and inorganic chemistry b. Substance classes and reaction mechanisms of organic chemistry c. Basics of biodiversity, taxonomy and phylogeny, microbiology and ecotoxicology. - The board of examiners decides on any exceptions on the basis of applications submitted. - Exceptions in this regard might be a Bachelor's thesis with the grade 1.5 or better or professional experience of at least one year in the field of chemistry, biochemistry or biotechnology.