

Branch: Chemistry and Chemical Engineering



Code: BIOLOG

Option: Biology

Level: Master

Prerequisites:

Opportunities:

There is no clearly definable job description for a 'biologist'. However, the career prospects of biologists are all the more broad. Depending on the choice of specialization, graduates may find themselves, for example, in the fields of university basic research, applied and industrial research and development, the food industry, quality control or product marketing, as well as in offices, authorities and public institutions. A doctorate is recommended for some positions.

Description:

Specialization in at least three of the seven possible specializations (biochemistry and cell biology, genetics, medical biology, microbiology, ecology, plant sciences, zoology/animal sciences), with one specialization possibly being extended to a qualifying specialization. What does the degree program consist of?

The Master's program, which follows on from the Bachelor's program in Biology, offers a wide range of subjects covering all areas of biology. Candidates from related life science programs often qualify for the Master's program and can apply. An individual choice of three majors or a qualifying

major and two majors opens up a wide range of employment opportunities in the biological sciences and related disciplines. The program is mainly research-oriented. The fields of activity of particular interest for research are very diverse. They include, for example, molecular biology, biochemistry, immunobiology, virology, oncology and autogenesis, microbiology, genetics, cell biology, morphology, taxonomy, animal and plant physiology and ecology. Areas of particular practical interest today are, for example, pharmacy, pharmacology, animal and plant production, fisheries biology, plant pathology and pest control, the food and brewing industry, food monitoring, quality control and, in addition, forest biology and environmental protection.

Quality and competences:

Graduates have deepened and supplemented the basic skills in the biological and natural sciences acquired in the Bachelor's program. Depending on the choice of specialization, they also have specialized knowledge in at least three of the seven specializations offered, with one specialization possibly being developed into a qualification specialization. In the case of the qualification specialization, about 60 % of a specialized master's program with the same or a similar name has been invested in this specialization in terms of work and learning and comparable competences have thus been acquired. All graduates have a very specific professional competence profile, which reflects personal inclinations, abilities and interests, due to the free combination of the specializations with each other and the modules that can be combined individually and freely within each specialization. Thanks to the prescribed diversification into at least three focal points, you will be able to understand and analyze complex biological interrelationships beyond your own field of specialization. As a result of the internships completed, graduates are able to plan and carry out experiments independently, process the resulting data and place them in a broader context. They are able to accurately plan more complex research projects and independently develop solutions for existing or new biological questions. In addition, technical and methodological skills as well as personal and social skills have been developed and refined.