

Quality concept Bachelor Biology

Program objectives Bachelor Biology

The study program Bachelor Biology serves to provide students with training in the subject of biology and to develop subject-related interdisciplinary competences and key personal skill sets.

The study of Biology in FB2 encompasses two different orientations, which are different in structure and content: i.e. Biology can either be studied as a full major or as component of a dual subject degree, combining two different subjects as a teacher-education option.

The curricula of the two study variants overlap especially with regard to the modules taught in the first two years of study but progressively differ when students enter their more specialty-related study phase, thus enabling acquisition of the specific qualifications needed for their chosen career field.

Studying biology as a full major entails two study phases, each with their own thematic foci:

- **Study years 1+2:** Study of biological and general science-oriented basic knowledge and methods
- **Study year 3:** Specialization on one of the department's four areas of specialization (specialties) and an introduction to current biology research

The program Bachelor Biology offers a sound training in theory and practice-orientated methods in different subsections of Biology. These subsections encompass the fields of cell and molecular biology, genetics and molecular genetics, microbiology, evolution, zoology and animal physiology, neurobiology and human biology, botany and plant physiology, ecology and marine biology.

This subject-related training is complemented with courses in basic science subjects like chemistry, physics, mathematics and statistics.

Besides acquiring knowledge of science and methods, students are taught how to undertake scientific work independently, hold their own in scientific discourse, and to independently develop scientific questions and set up experiments. The latter serves above all to facilitate the large proportion of practicals and tutorials. The modules dealing with didactics of biology prepare students of teacher education for their future task of teaching biology in schools.

In their specialty studies (introduction to specialties in molecular biosciences, marine biology, ecology or neurobiology), third year students of biology as a full major come into contact with the research groups in FB2 and the research topics they are working on. By means of the individual projects in specialties studies and their Bachelor's Thesis, students learn how to approach scientific work and can deepen their knowledge within a specific research field.

Students of biology as a full major can complement their studies by modules in General Studies (GS), while those studying a component of teacher education attend courses in

subject didactics and topics related to education. In General Studies, students acquire both subject specific as well as interdisciplinary and personal competences.

Concept for the evaluation of teaching in Bachelor

The evaluation of teaching in FB2 serves as a monitoring and feedback instrument.

The Faculty regularly carries out student evaluations of teaching

- by means of a [standard questionnaire](#) [PDF] (58 KB) (electronically or on paper, [instruction on use in Stud.IP](#) [PDF] (83 KB))
- and every two years is reflected in a flow chart ([evaluation plan Biology](#) [PDF] (100 KB) 2013/14 - 2017, [evaluation plan Chemistry](#) [PDF] (245 KB) 13/14- 2017)

as monitoring instruments to gain an overview of how modules or lecture courses belonging to the bachelor's study programs are "functioning". This regular gathering of such data over the longer term provides a medium- to long-term impression of how overall studies and the various components (modules, lecture courses) are received. The results of these questionnaires are analyzed by the teaching staff and passed on the Office of the Study Dean.

As the need arises and according to their own needs and purposes, evaluations of teaching may also be used as a feedback instrument by the teaching staff themselves. Members of the teaching staff wishing to carry out their own evaluations should use the standard evaluation form.

The QM Commission can ask for additional data collection / surveys, e.g. on student workloads, examination surveys, and questionnaires pertaining to the study programs.

Student feedback supplied to the teaching faculty, the Study Dean or the Studienbüro is an important source of indications for possible weak points or complaints and should be handled as such.

The persons responsible for the bachelor's programs meet regularly (approx once a month) with the elected student representatives (StugA, StugO).

