

Branch: Chemistry and Chemical Engineering



Code: BIOCHE

Option: Biochemistry

Level: Master

Prerequisites:

Opportunities:

For graduates of the Master's program in biochemistry, career opportunities are available in pharmaceutical and biotechnology companies. In addition, the field of application of biochemists also extends to many areas of transition from the natural sciences, from nutritional sciences to administrative and organizational tasks, as well as to health care and the media.

Description

The Master's program in Biochemistry is the link between chemistry and biology. It allows for individual specialization at the interface between chemistry, biology and medicine.

What is the purpose of this study program?

As the "chemistry of life", biochemistry is the link between biology and chemistry. In addition, bioinformatics plays an increasingly important role in modern biochemistry. Biochemists analyze the organization of cells and organisms at the molecular level. They analyze biochemical reaction mechanisms such as the intracellular transport of substances, cell differentiation, signaling cascades or the reactions of cells to stress, as well as the molecular

causes of diseases. To this end, biochemists use chemical, molecular biological and physical methods.

In the MSc Biochemistry program, you choose a chemical and a biological minor in addition to the main subject, biochemistry. Because of the large number of subject combinations, an individual subject and skills profile is created.

Quality and competences

As a graduate, you will have a deep understanding of scientific interrelationships. This enables you to work independently on scientific and technical issues and to develop solutions. Depending on your choice of areas of interest and specialization, you can also develop an independent competence profile.

Due to the interdisciplinary nature of the program, you will have specialized and methodological knowledge in related disciplines of medicine and life sciences. You will be able to independently design, carry out and evaluate scientific research at the interfaces between the disciplines. You will work constructively with colleagues in interdisciplinary teams.