Your Advantages

Research-focused program
- Successful since 18 years
- Intensive scientific training in small learning and lab groups
- Practical training and personalized profile building
- Modern laboratory equipment and study environment
- Optimal training for an immediate start into PhD programs, industry or basic research
- Program start in winter or summer term

In accordance with international standards, the program has a modular structure. Participation in the European Credit Transfer and Accumulation System (ECTS) facilitates transfers from and to European higher education institutions.

Studying in Sigmaringen

Learning environment and mentoring
Sigmaringen welcomes you with a pleasant learning environment. You will not be one among many, but will be mentored individually. Close contact to professors and academic staff creates a personalized environment.

Features of the University location:
- Affordable room rates in walking distance
- Sports and outdoor activities such as swimming, hiking, climbing, mountain biking and canoeing
- Student-operated bar on campus
- Regional industry and companies with interesting internship and job perspectives

Key Details

Admission Requirements
Bachelor degree in life sciences

Application Deadlines
- Summer term: January 15th
- Winter term: July 15th

Admission Procedure
Evaluation of applications and selection on eligibility requirements

Beginning
Summer or winter term

Duration
3 terms (90 ECTS)

Exchange Program (optional)
Semester at over 30 partnering universities; thesis abroad

Awarded Degree
Internationally recognized Master of Science
Biomedical Sciences in Sigmaringen
applied and research-focused

Study Program

Master of Science

The Master of Biomedical Sciences (BMS) program at the Albstadt-Sigmaringen University of Applied Sciences is the ideal foundation for your career.

Central to the Master program are the complex processes of life and their underlying molecular mechanisms. Particular focus is on development of assay systems and alternative methods to replace, reduce or refine (3R principle) animal experiments. A comprehensive and wide-ranging course program allows you to focus your study program according to personal interests. Limited admission numbers ensure the participation in all courses offered, as well as individual mentoring. In numerous laboratory courses, own research projects and the Master thesis project – internal or external – you deepen your knowledge and gather the practical experience required for a successful career start.

Objectives

Acquisition of expertise and soft skills

Expertise acquired during your bachelor studies will be expanded with focus on biomedical sciences. Close collaboration with other universities, research institutes, companies and the life science network BioLago ensures quality of training by up-to-date course contents and interdisciplinarity. You will benefit from strong connections to the applied research field and can establish contacts to future employers already during your studies.

In addition to skills necessary in the professional life sciences, you also acquire self-management and leadership skills through project and team work. This prepares you ideally for a direct career start in a PhD program or any job in life sciences, enabling you to fulfill your potential.

Career Perspectives

Wide-ranging and attractive career choices

The career perspectives of our successful graduates are as varied as the biomedical sciences themselves. Our BMS graduates are highly in-demand skilled professionals and executives. This provides for exciting positions, well-paying jobs and outstanding future prospects in a multitude of disciplines such as:

- Biomedical and clinical research
- Medical diagnostics and pharmaceutical companies
- Laboratory and project supervision in industry
- Quality management and control
- Product management and marketing
- Public administrations
- PhD programs in renowned institutions and laboratories
- … and numerous other possibilities

Electives

- Adult Stem Cells
- Biomaterial Sciences
- Biophysics of Cells, Membranes and Proteins
- Biophysical Assay Systems
- Research Focus Biomedicine
- Lab Automation in Biomedicine
- Quality Assurance Systems in Biomedicine
- Pathophysiology of the Cell
- Regenerative Medicine – Legal Basics
- Systems Biology
- Therapeutic Techniques in Biomedicine
- …

Curriculum

1. First Semester
   - Cell Biology
   - Biochemistry and Physiology
   - Molecular Immunology
   - Microbiology and Virology
   - Stem Cell Biology and Proteomics
   - Elective I

2. Second Semester
   - Molecular Genetics and Nucleic Acid based Assay Systems
   - Protein based Assay Systems and Bioinformatics
   - Biological Engineering
   - Statistical Planning and Analysis of Experiments
   - Pharmakokinetics, Genetics and Drug Targeting
   - Elective II

3. Third Semester
   - Master thesis and defense
   - Oral master exam
   - Elective III

Additional options

- Research projects internal or external (university or industry)
- Courses in related study programs