

Albstadt-Sigmaringen University
Department of Life Sciences

Biomedical Sciences (M.Sc.)
Campus Sigmaringen

General Information
Administrative Office
Anton-Günther-Straße 51 | 72488 Sigmaringen
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Specific Information
Dean of Studies Prof. Dr. Jörg Bergemann
E-Mail: bergemann@hs-albsig.de

Information on degree program
www.hs-albsig.de/bms



Key Details

Admission Requirements	Bachelor degree in life sciences
Application Deadlines	January 15 th , July 15 th
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



Hochschule
Albstadt-Sigmaringen
Albstadt-Sigmaringen University

Department of Life Sciences

Biomedical Sciences
Master of Science

Apply and start your career

Application deadlines
Summer term: January 15th
Winter term: July 15th

Online-Application
www.hs-albsig.de/bewerbung

Information on application and admittance
Office of Student Affairs
Tel.: +49 (0) 75 71 732-82 24
E-Mail: kastern@hs-albsig.de



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



www.hs-albsig.de/bms

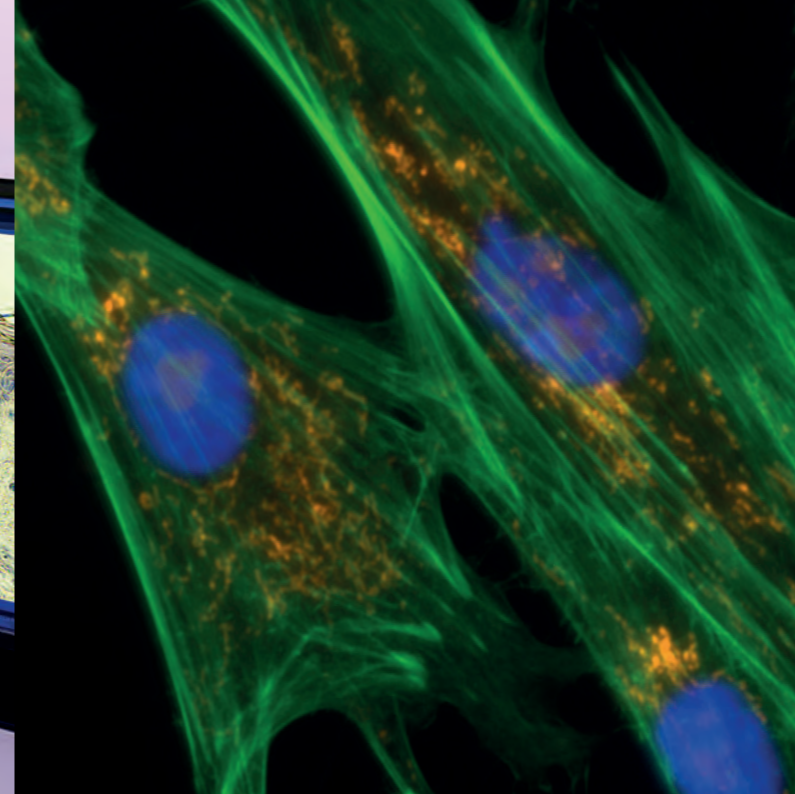


Ausgezeichnet mit dem
Zertifikat „audit familien-
gerechte hochschule“



Internationale
Bodensee
Hochschule

Biomedical Sciences in Sigmaringen applied and research-focused



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
- Pharmacokinetics, Genetics and Drug Targeting
- Elective II

3

Third Semester

- Master thesis and defense
- Oral master exam
- Elective III

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 inter-disciplinarity. 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

Laboratory courses

- Applied Cell Systems
- Molecular Genetics and Nucleic Acid based Assay Systems
- Protein Analytics
- Stem Cell Technologies

Additional options

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