

CAMPUS RHEINBACH

The Department of Natural Sciences is located in the city of Rheinbach, a pleasant town embedded in the recreation area of the Eifel, inviting to all kinds of leisure activities. Our Campus can be reached from Bonn by train in only 30 minutes using the semester ticket, which is included in the semester fee.

Accommodation is readily available in the University's surroundings.

Good reasons for studying at H-BRS

- Excellent technical infrastructure
- Modern, well-equipped laboratories
- Lectures in English
- Innovative teaching and assessment methods
- Lectures, exercises and laboratory classes in small groups
- Mentoring programmes and tutorial support
- Practical projects
- Strong connections to regional industry
- Research activities of the teaching staff in the fields of Arthritis, Metabolic Diseases, Stem Cells and Membrane Transport
- Language center on campus
- Study abroad semester
- Possibility to obtain a double degree at a partner university



AT A GLANCE

Degree
Bachelor of Science (BSc)

Campus
Rheinbach

Period of Study
6 Semester

Beginning of the Programme
Each winter semester (end of September)

Language
English

Admission Requirements
Students must provide evidence of one of the following:

- Entrance qualification for a German University of Applied Sciences
- Entrance qualification for university
- Entrance qualification acknowledged as equivalent by the competent authorities

International students must show proficiency in English (e.g. minimum score of 213 on the computed-based TOEFL). The original TOEFL score report has to be sent by ETS, our institution code is 7977.

Deadline for Application
Prospective students will have to apply through an online-based system. Deadline: July, 15th

www.h-brs.de/en/anna/applied-biology-bsc

Natural Sciences Applied Biology

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Stand 03/2023



Applied Biology Bachelor of Science (BSc)



**Hochschule
Bonn-Rhein-Sieg**
University of Applied Sciences

STUDY ABROAD

Students are encouraged to spend one or two semesters at one of our partner universities in the UK, the Netherlands, Spain, Norway, France, Poland or Italy. Some of our partner universities award their own degree to students who stay for two semesters. This so-called double degree programme allows students to obtain within six semesters two independent degrees, one from Hochschule Bonn-Rhein-Sieg and the other from the partner university. Partner universities for a double degree are located in UK, the Netherlands and France. The option for a double degree is very special and a door opener for subsequent career perspectives, either in industry or at university.

Students are supported for their stay abroad in many ways:

- From first semester on students have the chance to get in touch with fellow students from partner universities.
- Each semester the Department of Natural Sciences offers information sessions about staying abroad.
- Students have the chance of visiting selected partner universities before making a decision of going abroad.
- The Language Center offers courses in preparing a curriculum vitae and writing a motivation letter.
- The International Office of Hochschule Bonn-Rhein-Sieg supports students in filling out the documents for their stay abroad, organizing housing in a student's residence and applying for external funding.



PROGRAMME PROFILE

The study programme focuses on modern disciplines in biology, including cell culture, immunology and genetic engineering. Students are trained hands on with state of the art lab equipment in the fields of Fluorescence Activated Cell Sorting (FACS), modern PCR applications or Enzyme Linked Immunosorbent Assays (ELISA). In the laboratory students work independently on their own projects but also integrate in a research team.

Graduates from this study programme are admitted to postgraduate studies in highly esteemed universities all over Europe. Unique to this study programme are courses in clinical research, drug development and quality assurance. These courses are an excellent preparation for a subsequent career in industry. Graduates from the Applied Biology study programme are therefore equally well qualified for either a career in industry or at university.

The standard period of study for obtaining the BSc degree is six semesters, including a final project.

CAREER PERSPECTIVES

Graduates can look forward to various career opportunities, e.g. in

- Research and Development
- Product Quality Management
- Product Analysis
- Technical Services in Medical, Clinical and Biological Laboratories
- Scientific Support in Life Science Industry
- Public Health
- Pharmaceutical Industry
- HealthCare Providers



CURRICULUM

Semester	ECTS	
1.	• Mathematics	6
	• Laboratory Skills/ Computing Sciences	7
	• Cell Biology	7
	• General Chemistry	7
	• Language 1	3
2.	• Physics/Statistics	6
	• Microbiology	7
	• Human Biology/Histology	7
	• Organic Chemistry	7
	• Language 2	3
3.	• Instrumental Analysis	7
	• Medical Microbiology	6
	• Physiology	7
	• Molecular Genetics	7
	• Measuring Techniques	3
4.	• Biochemistry	7
	• Bioinformatics/ Data Analytics	7
	• Immunology	7
	• Elective A-1	3
	• Elective A-2	3
	• Cell Culture	3
5.	• Genetic Engineering	7
	• Structural Biology	7
	• Developmental Biology	7
	• Elective B-1	3
	• Elective B-2	3
• Elective C	3	
6.	• 3 Month Practical Training	18
	• Final Project including colloquium	12