

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. For more information please contact the International Office.

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
- Tutorial support
- Practical projects
- Strong connections to local industry
- Excellent research record
- Language center on campus
- International reputation



AT A GLANCE

Degree

Master of Science (MSc)

Campus

Rheinbach

Period of Study

4 Semester

Beginning of the Programme

Each Winter Semester (End of September)

Language

English

Admission Requirements

Bachelor's degree or equivalent in biological sciences, grade at least „good“ (2.5). Proof of courses equivalent to 6 ECTS in the following topics each: Molecular Biology/Genetics, Immunology, Developmental Biology, Human Biology and Physiology. For international applicants: If the applicant is neither a native speaker nor has completed a previous degree programme in English, s/he needs to provide proof of English proficiency, with a minimum level of B2 certified by one of the following tests: TOEFL iBT, IELTS, Cambridge B2 or others. The original TOEFL score report has to be sent by ETS. Our institution code is 7977. Each application will be examined by the Admission Committee.

Deadline for Application

For applicants with a visa requirement, application is possible from 15 February to 31 March via uni-assist. For Germans and applicants without a visa requirement, application is possible from 15 February to 15 July via the application portal Apollo.

www.h-brs.de/en/anna/biomedical-sciences-msc

Department of Natural Sciences Biomedical Sciences

All information about the degree programme also **barrier-free** here:



Campus Rheinbach

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www.h-brs.de

www.facebook.com/hsbrs



ELECTIVE COURSES*

With a large number and a broad spectrum of elective courses or special fields this master programme offers you the opportunity to tailor your individual curriculum according to your interests and career plans. Please find below a list of elective courses or special fields of this masters programme.

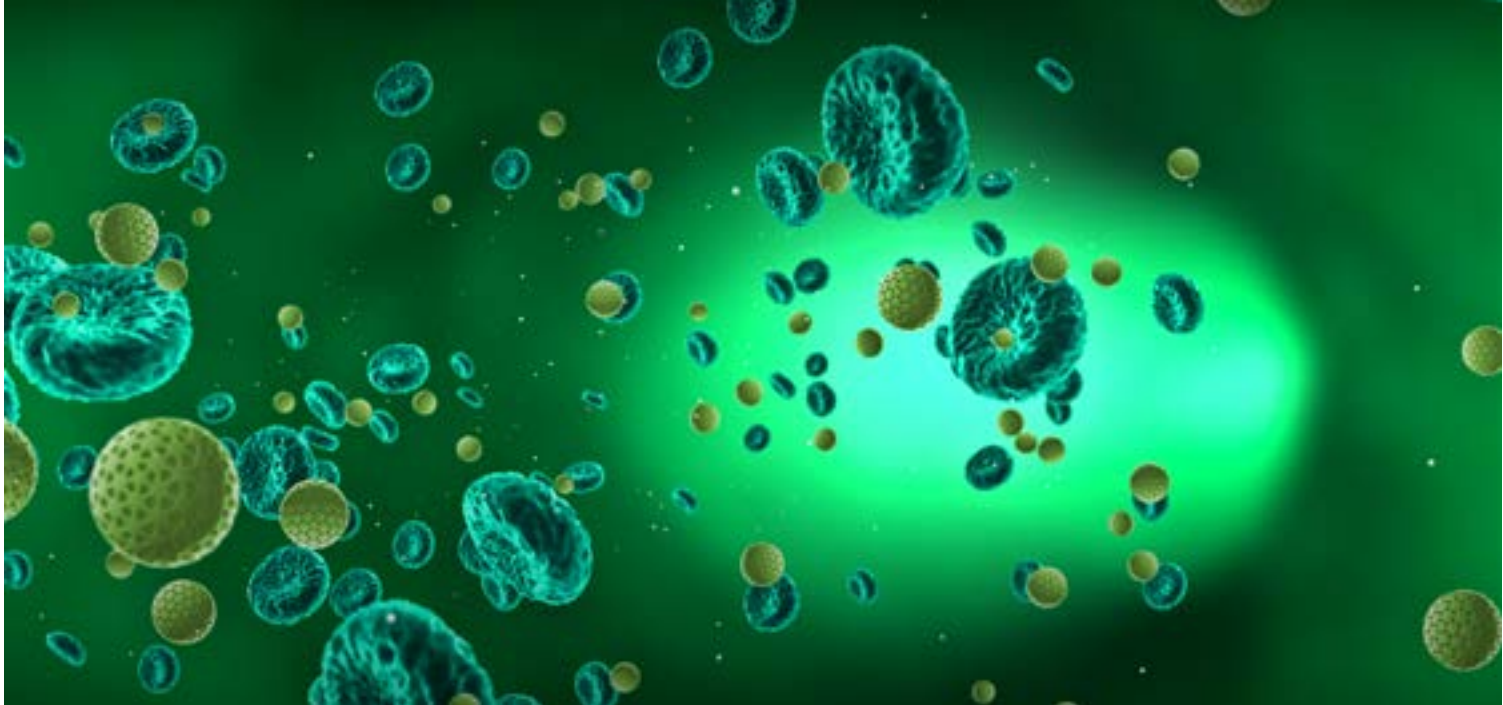
Current elective courses:

- Regulatory Affairs and Development of Medicinal Products
- Inborn Errors of Metabolism
- Analyzing Signal Transduction
- Preclinical models in Cancer Research
- Computational Biology and Programming
- Planning and Conducting of Scientific Human Trials
- Medical Parasitology
- Introduction to Flow Cytometry
- Biologics: Basics, Production and Therapeutic Application
- Ethics in the Healthcare Sector
- Medical Immunology
- Phytopharmaceuticals: Basics, Effects and Application
- Structural Bioinformatics
- Personalized Medicine in Oncology: From Target to Therapy

**Please notice this list of courses is subject to change.*

Degree

Successful students will be awarded with the Master of Science degree in Biomedical Sciences by the Hochschule Bonn-Rhein-Sieg, University of Applied Sciences. This degree enables graduates to apply for a PhD program at any university.



CURRICULUM



1st term 30 CP	Monitoring of Clinical Trials 8 CP	Pharmacology / Toxicology 8 CP	Clinical Chemistry 8 CP	Elective Course 1 3 CP	Elective Course 2 3 CP
2nd term 30 CP	Virology 8 CP	Neurobiology 8 CP	Medical Proteomics 8 CP	Elective Course 3 3 CP	Elective Course 4 3 CP
3rd term 30 CP	Pathophysiology 8 CP	Human Genetics 8 CP	Advanced and Clinical Immunology 8 CP	Elective Course 1 3 CP	Elective Course 2 3 CP
4th term 30 CP	final thesis / colloquium 30 CP				

Module Types

concentration

final thesis

CP = Credit Points

PROGRAMME PROFILE

This Masters programme offers a wide range of theoretical and practical classes in the field of biomedical sciences. The multidisciplinary character of our faculty and our selected visiting lecturers allow us to offer a large number of diverse elective courses to choose from. The practical training includes state-of-the-art techniques, ranging from proteomics and advanced methods in human genetics to techniques used in clinical immunology. A strong focus on practical classes provides the opportunity to acquire strong and diverse technical skills.

We provide our students with a broad scope of in-depth insights in the biomedical field. In particular, the program covers research topics from biomedicine, pharmacology, neurobiology, immunology to physiology. Developmental areas of expertise like toxicology, drug development, clinical research and regulatory affairs are also part of the curriculum. This degree programme is taught completely in English.

CAREER PERSPECTIVES

The M.Sc. in Biomedical Sciences qualifies and prepares students for positions in research and development in the medical, diagnostic or biological field in pharma or biotech companies and academia. Alumni of this program now hold positions in academic research but also in clinical research, consulting, product management or sales of pharmaceutical and biotech companies. Moreover, many graduates continue their studies by enrolling in PhD programmes.