



Molecular and Cellular Biosciences

Master-Studiengang

General Information

Characteristic	Master-Studiengang
Degree	Master of Science (M.Sc.)
Credits	120 CP
Standard Period of Study	4 Semester
Start of Studies	Wintersemester und Sommersemester
Form of Study	Direct Study, Full-time Study, International Study
Language	English
Admission Restriction	restricted (Uni-NC)
Specific Admission Requirements	yes (Details)
Faculty	Naturwissenschaftliche Fakultät I - Biowissenschaften
Institute	Institut für Biologie
Accreditation	not accredited, accreditation in preparation

Programme Goals

The international master's programme *MSc Molecular and Cellular Biosciences* aims at providing a broad theoretical and methodological understanding of cellular functions at the molecular level, enabling students to acquire a comprehensive knowledge in one or more areas of molecular and cellular biology.



The study programme is designed to broaden and develop the students' ability to work systematically and scientifically, and to train logic-based analytical thinking in order to enable them to carry out scientific research independently in the molecular biosciences.

Students will acquire knowledge in recognizing and identifying scientific problems, developing structured approaches to address these scientific problems, to solve key questions experimentally and ultimately expand our knowledge of the subject area. In a collaborative and problem-oriented manner, students will be trained in working as a team with colleagues from different disciplines and to apply basic knowledge in a practical way.

The MSc *Molecular and Cellular Biosciences 120 CP* is strongly research-oriented and both lectures and examinations are held in English.

Career Opportunities

MSc Molecular and Cellular Biosciences qualifies for positions in the following areas:

- university research
- PhD positions
- research-oriented institutes
- industry
- production
- administration
- diagnostics
- public service

Accreditation

The study programme is not yet accredited. The accreditation is in preparation.



Programme Structure

The study programme is structured as follows:

- Compulsory modules (45 CP)
- Elective modules: three project modules (45 CP)
- Master's thesis (30 CP)

Modules

The programme covers all aspects relevant for the research and the solution of bioscience-related issues. The curriculum is organised in a way that students are able to graduate from the programme within the regular period of study of 4 semesters.

A: Compulsory modules (75 CP)

Module	CP	rec. sem.
Fundamentals in Biosciences (introductory)	15	1
Research internship (advanced)	15	2 or 3
Project study (advanced)	15	3
Research project module (Master's thesis)	30	4

B: Project modules (Elective modules) (45 CP)

Three project modules (15 CP each) have to be successfully completed, at least two of them from the Institute of Biology's offer (B1).

Module	CP	rec. sem.
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B1: project modules offered by the Institute of Biology		
At least 30 CP must be obtained from the B1 elective modules on offer.		
Developmental Biology	15	1 or 2
Molecular Animal Physiology	15	1 or 2
Molecular Genetics of Root Nodulation Symbiosis	15	1 or 2
Molecular Mechanisms in Developmental Genetics	15	1 or 2
Molecular Microbiology	15	1 or 2
Molecular Physiology of Microorganisms	15	1 or 2
Molecular Phytopathology and Plant Immunity	15	1 or 2
Molecular Plant Physiology	15	1 or 2
B2: project modules offered by other institutes		
A maximum of 15 CP can be obtained from the B2 elective modules on offer.		
Molecular Physiology of Plant Nutrition and Crop Yield	15	1 or 2
Nucleic Acid Biochemistry	15	1 or 2
Plant Biochemistry	15	1 or 2
Cell Biochemistry and Virology	15	1 or 2

The content, learning objectives, workload, requirements and prerequisites of specific modules are published in the module catalogue and in the study and examination regulations (in German only), respectively.

Admission Requirements



Applicants for the *MSc Molecular and Cellular Biosciences* must

- hold a bachelor's degree or equivalent degree in a bioscience-oriented study programme and
- prove good knowledge of written and spoken English.

English language proficiency must be proven via Unicert II, TOEFL, IELTS, Cambridge Certificate, German Abitur or an equivalent internationally recognised language certificate attesting **level B2** according to the Common European Framework of Reference for Languages (CEFR). English language proficiency is deemed to be proven if the first degree was obtained in a study programme taught in English.

Comprehensive knowledge of molecular biology, biochemistry, genetics and physiology is fundamental. Furthermore, basic knowledge in the basic scientific subjects (i.e. chemistry, physics and mathematics) is essential. Recognition is decided by the selection committee, which can impose conditions if necessary.

If the study programme is subject to admission restrictions and the number of applications exceeds the number of available study places, the available study places are allocated according to the Study Place Allocation Regulations of the Federal State of Saxony-Anhalt (Studienplatzvergabeverordnung Sachsen-Anhalt) and the regulations governing the selection procedure for the master's degree programme *Molecular and Cellular Biosciences* (selection regulations, i.e. Auswahlordnung) in the currently valid version. In this process, 50% of all study places are awarded to international applicants who do not have the same status as German applicants.

*This chapter consists of excerpts roughly translated into English. Only **the study and examination regulations** are legally binding.*

Application/Enrolment

The admission to the *MSc Molecular and Cellular Biosciences* is currently **restricted** (Uni-NC).



- Applicants with a bachelor's degree (or equivalent) obtained in Germany must apply via www.uni-halle.de/bewerben
 - presumably (!) by **31 July 2021** for winter semester, and
 - by **15 January 2022** for summer semester

- Applicants with a bachelor's degree (or equivalent) obtained abroad must apply via www.uni-assist.de
 - by **15 June 2021** for winter semester, and
 - by **31 October 2021** for summer semester

Halle University reconsiders its admission policy every winter semester and determines whether admission to a study programme is restricted (Uni-NC) or free (no NC). From May each year, the current decision is published here (see also General Information).

Required documents

The following documents must be submitted with the application for admission:

1. An authenticated hard copy of your bachelor's degree or equivalent (i.e., graduation certificate and transcripts) and authenticated, official translations unless the originals are in English or in German.
2. Proof of relevant previous knowledge acquired at a higher education institution in accordance with the regulations governing the selection procedure for the international master's programme *Molecular and Cellular Biosciences* (selection regulations, i.e. Auswahlordnung) in the currently valid version, and
3. Proof of English language proficiency (see admission requirements).



Applicants who are scheduled to complete the bachelor's degree (or equivalent) after the application deadline, may apply with a provisional graduation certificate or the semesters' transcripts (i.e., the modules and grades overview must reflect at least 2/3 of the degree's total credits), respectively. The final graduation certificate shall be submitted with the enrolment at university, for enrolment for the winter semester, however, not later than 31 January in the year following admission.

Fulfilment of the admission requirements does not constitute a claim to a study place for this programme.

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Information for international applicants

For any questions regarding application and admission please contact:

Student Registration Office - International Students Section

Mrs. Kati Gaudig

e-mail: kati.gaudig@verwaltung.uni-halle.de

URL: www.uni-halle.de/international-students

Programme Advisor

For detailed information concerning the contents, goals and structure of the programme, please contact the programme advisor.



PD Dr. Ulrich Arnold

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Consultation hours

Monday: 8–12

Tuesday: 8–12 | 13–15

Thursday: 8–12

Friday: 8–12

Links

- [Application and Enrolment \(https://www.ich-will-wissen.de\)](https://www.ich-will-wissen.de)
- [International Office \(https://www.uni-halle.de\)](https://www.uni-halle.de)