



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## Biophysics, Master of Science

Julius-Maximilians-Universität Würzburg • Würzburg

### Overview

Degree	Master of Science Biosciences - Biophysics
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	All courses are held in English. In addition to the regular programme, students are expected to enrol in German language courses.
Programme duration	4 semesters
Beginning	Winter and summer semester
Additional information on beginning, duration and mode of study	In the winter semester, the lecture period begins mid-October. In the summer semester, the lecture period begins mid-April.
Application deadline	Online application is open from May until 15 July for the following winter semester from November until 15 January for the following summer semester
Tuition fees per semester in EUR	None
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	Based on current research topics, biophysical methods and corresponding applications are presented. Topics that are discussed include fundamentals in thermodynamics, reaction kinetics and molecular interactions in general as well as with respect to the analysis of single cells down to single molecules. Further topics include both theoretical and methodological aspects of plant membrane transport systems, structural biology, biochemistry, biomedicine, integrative biology, and bioinformatics.

### Course Details

Course organisation	The study programme Biophysics is a combination of two major topics: A) molecular and cellular biophysics and B) molecular biology. During the first year of the programme, the students enrol in
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two theoretical and one practical course in each of the two topics. All modules are accompanied by a graded examination. In semesters three and four, further specialised research training is provided in a selected field of interest. The students are actively involved in ongoing research projects. They learn to plan and perform independent theoretical and experimental work. They also learn to summarise and discuss the results obtained in the thesis. The thesis has to be presented and defended in a final colloquium. The thesis (25 ECTS) is preceded by an ungraded preparatory practical course of 12 weeks (15 ECTS).

Further modules (15 ECTS) are selected within the sub-area "Additional Qualifications" to cover special aspects of interest. These modules will not be graded (pass/fail only).

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<b>A Diploma supplement will be issued</b>	Yes
<b>International elements</b>	<ul style="list-style-type: none"> <li>• Projects with partners in Germany and abroad</li> <li>• Integrated/optional study abroad unit(s)</li> </ul>
<b>Integrated/optional study abroad unit(s)</b>	Elective courses may be accomplished at partner universities outside of Germany. These courses are recognised as regular courses of the study programme.
<b>Diverse intercultural background of students</b>	30% of students are from outside Germany.
<b>Integrated internships</b>	Elective research project, involvement in research working groups within universities or companies in Germany or abroad
<b>Course-specific, integrated German language courses</b>	Yes
<b>Course-specific, integrated English language courses</b>	No

## Costs / Funding

<b>Tuition fees per semester in EUR</b>	None
<b>Semester contribution</b>	<p>There are generally no tuition fees at the University of Würzburg. However, you must pay the semester contribution each semester for enrolment or registration. The student contribution includes a semester ticket that allows you to use public transportation all throughout the beautiful city of Würzburg.</p> <p>Student contribution: approx. 162.90 EUR</p>

<b>Costs of living</b>	<p>The cost of living in Würzburg is low compared to other German cities. Of course, this strongly depends on your individual lifestyle, but you should expect monthly costs of about 940 EUR.</p> <ul style="list-style-type: none"> <li>• Food: 250 EUR</li> <li>• Rent: 350 EUR</li> <li>• Health insurance: 110 EUR</li> <li>• Other: 212 EUR</li> </ul>
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- Broadcasting fees (AZDBS/GEZ): 18 EUR

Funding opportunities within the university

No

## Requirements / Registration

Academic admission requirements

Bachelor of Science in biology or equivalent study degree that fulfils the criteria of the "Fachkanon Biologie" / subject specific criteria, in particular:

[Bachelor of Science in Biology or similar programme](#)

Biosciences: 75 ECTS credit equivalents

Chemistry (including biochemistry and physical chemistry): 15 ECTS

Physics, mathematics, biostatistics: 15 ECTS

OR

Biosciences: 60 ECTS

Chemistry (including biochemistry and physical chemistry): 20 ECTS

Physics, mathematics, biostatistics: 12 ECTS

OR

Biosciences: 70 ECTS

Chemistry (including biochemistry and physical chemistry): 10 ECTS

Physics, mathematics, biostatistics: 12

Proof of experimental laboratory experience, preferably by an experimental thesis comprising a minimum of 10 ECTS

Please submit either your final degree or your transcript of records to certify the minimum requirement of 150 ECTS. You have to submit your completed transcript of records not later than 15 September or 15 March, respectively.

Language requirements

Language requirements in English

The proof of skills in the English language should be at a level not lower than:

1. Test of English as a Foreign Language (TOEFL) with at least 570 points (paper-based TOEFL), 240 points (computer-based TOEFL), or 90 points (Internet-based TOEFL)
2. International English Language Test System with a return of 6.5 or better
3. Cambridge Certificate in Advanced English (CAE)
4. Bachelor's degree from an English-taught course
5. any certificate issued by the Faculty of Biology's admission committee after approving of English skills based on the assessment of a Bachelor's thesis written in English, of a language course other than specified above, or an interview held in English

In addition, German language skills (e.g. B1 CEFR) are highly recommended and may be achieved during the first phase of the programme.

Application deadline

Online application is open from May until 15 July for the following winter semester

from November until 15 January for the following summer semester

Submit application to

<https://wuestudy.zv.uni-wuerzburg.de/qisserver/pages/cs/sys/portal/hisinoneStartPage.faces>

## Services

### Possibility of finding part-time employment

- **Students from countries within the EU and the EEA** are on equal terms in the labour market and are allowed to work during their course of study.
- **Students from other countries** are allowed to work 120 full days or 240 half days per year (which also includes voluntary internships). If you would like to work more, you will need permission from the employment agency ("Agentur für Arbeit") or the immigration office.
- Important: Be sure your studies will not suffer if you have a side job!

### Accommodation

The [Student Housing Service](#) ("Studentenwerk") is responsible for 10 dormitories in various locations in Würzburg.

#### Amenities:

- Single and double rooms or rooms in apartments in which two to four students share a kitchen and a bathroom.
- All rooms and apartments are furnished.
- Dishes, cooking items, bedding, and towels are not provided.
- You can find more information about the individual dormitories [here](#).

#### Length of stay:

- The rental contracts of the "Studentenwerk" are temporary contracts.
- The fixed-term rental contracts of the "Studentenwerk" can be terminated in writing with two months' notice for the following deadlines: 31 March or 30 September.

#### Application:

- Deadlines: **15 June for the winter semester and 15 January for the summer semester** (The student housing service must receive the security deposit of 300 EUR by this date.)
- You will receive further information about applying for housing in your letter of acceptance.

### Career advisory service

Support regarding career development, including internships, occupational prospects, individual coaching by coordinator of Bio Careers

### Support for international students and doctoral candidates

- Buddy programme
- Tutors
- Specialist counselling

# Contact

**Julius-Maximilians-Universität Würzburg**

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Studiendekanat

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🌐 Course website: <https://www.biologie.uni-wuerzburg.de/masterbiosciences/msc-programmes/biophysics/>

📘 <https://www.facebook.com/uniwue>

🐦 [https://twitter.com/uni\\_wue](https://twitter.com/uni_wue)

📷 <https://www.instagram.com/uniwuerzburg/>

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# International Programmes in Germany - Database

[www.daad.de/international-programmes](http://www.daad.de/international-programmes)  
[www.daad.de/sommerkurse](http://www.daad.de/sommerkurse)

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## GATE-Germany

Consortium for International Higher Education Marketing  
[www.gate-germany.de](http://www.gate-germany.de)

## Disclaimer

The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

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