



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree

universität freiburg

Biochemistry & Biophysics

## Biochemistry and Biophysics – Binational

University of Freiburg • Freiburg im Breisgau



## Overview

Degree	Master of Science Biophysicochimie in Freiburg Master Sciences, Technologie, Santé, mention Chimie, parcours Biophysicochimie (binational) in Strasbourg
In cooperation with	University of Strasbourg
Teaching language	<ul style="list-style-type: none"><li>• German</li><li>• English</li><li>• French</li></ul>
Languages	German and English OR French and English
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	Application deadline in <b>Strasbourg</b> via the <a href="https://ecandidat.unistra.fr">ecandidat.unistra.fr</a> platform: 15 May for an intake in the following winter semester.  Application deadline in <b>Freiburg</b> via the <a href="https://hislnone.com">HislnOne</a> platform: 15 July for an intake in the following winter semester.
Tuition fees per semester in EUR	Varied
Additional information on tuition fees	There are no tuition fees for international students enrolled in this specific binational Master's programme.
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	Yes
Description/content	The description of protein functions at a molecular level with the aid of biophysical methods

represents the main content of the MSc Biochemistry and Biophysics.

Biochemistry and biophysics constitute the fundamentals for understanding chemical reactions in living cells at a molecular level. Spectroscopic and kinetic methods are used as tools to understand the mechanism of enzymes. Their three-dimensional structure is the basis for the function of enzymes, and molecular biological techniques are tools that can monitor these functions. Bioinformatics can identify molecular interactions, and synthetic biology is applied to create new ones.

## Course Details

<b>Course organisation</b>	Two mobility models are offered:  <ol style="list-style-type: none"><li>1. the first year in Strasbourg and the second year in Freiburg</li><li>2. the first year in Freiburg and the second year in Strasbourg</li></ol> <p>Students who spend the first full academic year in Strasbourg mainly attend courses in the field of physical chemistry. Students who spend their first year studying in Freiburg attend courses in the field of biochemistry and biology. The second year takes place at the partner university. In Strasbourg, the second-year students mainly attend specialised courses in the field of biophysics and physical chemistry in the third semester. In the fourth semester, they carry out their research projects, which are completed by the Master's theses. In Freiburg, they complete a research and specialisation internship in the third semester. In the fourth semester, they carry out their research projects, which are completed by the Master's theses. In addition to the subject-specific courses, intercultural seminars in various forms are offered to strengthen intercultural competence (block seminars, intensive and study-accompanying courses).</p> <p><a href="#">» PDF Download</a></p>
<b>A Diploma supplement will be issued</b>	Yes
<b>International elements</b>	<ul style="list-style-type: none"><li>• Training in intercultural skills</li><li>• Integrated study abroad unit(s)</li><li>• Specialist literature in other languages</li><li>• Courses are led with foreign partners</li></ul>
<b>Description of other international elements</b>	French-German double degree
<b>Integrated study abroad unit(s)</b>	The first or second year of studies will take place in France.
<b>Integrated internships</b>	For the study track starting in France: One short internship (in France) during the first year / two short and one long internship (in Germany) during the second year  For the study track starting in Germany: One long internship in France during the second year
<b>Special promotion / funding of the programme</b>	<ul style="list-style-type: none"><li>• Franco-German University (FGU)</li></ul>
<b>Course-specific, integrated</b>	Yes

## German language courses

Course-specific, integrated English language courses Yes

## Costs / Funding

Tuition fees per semester in EUR Varied

Additional information on tuition fees There are no tuition fees for international students enrolled in this specific binational Master's programme.

Semester contribution 180 EUR per semester:

- Administrative fee: 70 EUR
- Contribution to the constituted student body: 7 EUR
- Contribution to the student union: 103 EUR

Costs of living Participants must ensure that sufficient funding is available to finance their participation in a course of study. The average cost of living in Freiburg for one month is currently approx. 850 EUR to 1,000 EUR.

Some details:

- Rooms in private accommodation including extra costs: 350 EUR – 700 EUR
- Rooms in student residences: 250 EUR and 550 EUR including extra costs
- Private expenses amount to around 350 EUR per month.
- Health insurance (recommended) is available for approx. 120 EUR per month.
- Transport: A special student ticket for regional transport costs approx. 89 EUR per semester.

[www.studium.uni-freiburg.de/en/counseling/welcome-guide-for-international-students/finance](http://www.studium.uni-freiburg.de/en/counseling/welcome-guide-for-international-students/finance)

Funding opportunities within the university Yes

Description of the above-mentioned funding opportunities within the university Students are eligible for Erasmus+ scholarships and funding by the French-German University.

## Requirements / Registration

Academic admission requirements In France: Students must have a first university degree (180 ECTS credits) in chemistry, biochemistry, physical chemistry or related fields; e.g., a Bachelor "Regio Chimica" (joint study programme of the University of Freiburg and the Université de Haute-Alsace [Mulhouse]). Engineers (Ecole) can also apply.

In Germany: Students must have a first university degree (180 ECTS credits) in biochemistry, biophysics, life sciences, pharmaceutical sciences, biology, chemistry or molecular medicine or finished an equivalent at least three-year degree programme at a German or foreign university. Proof must be provided that within the framework of the first university degree, 10 ECTS credits

have been earned in the fields of biochemistry or biophysics and 10 ECTS credits in the fields of mathematics, bioinformatics or physics.

<b>Language requirements</b>	<p>Students spending their first year in Strasbourg must have sufficient language proficiency in French and English (level B1 in English and B2 in French of the Common European Framework of Reference for Languages [CEFR]).</p> <p>Students spending their first year in Freiburg must have sufficient language proficiency in German and English (level B2 in the CEFR).</p>
<b>Application deadline</b>	<p>Application deadline in <b>Strasbourg</b> via the <a href="https://ecandidat.unistra.fr">ecandidat.unistra.fr</a> platform: 15 May for an intake in the following winter semester.</p> <p>Application deadline in <b>Freiburg</b> via the <a href="https://hislnone.uni-freiburg.de">HisInOne</a> platform: 15 July for an intake in the following winter semester.</p>
<b>Submit application to</b>	<p>Applications in Strasbourg (March to May) via: <a href="https://ecandidat-impair.app.unistra.fr/ecandidat/#!accueilView">https://ecandidat-impair.app.unistra.fr/ecandidat/#!accueilView</a></p> <p>Applications in Freiburg (must be submitted by 15 July) via: <a href="https://campus.uni-freiburg.de/">https://campus.uni-freiburg.de/</a></p>

## Services

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<b>Accommodation</b>	<p>As Freiburg is an attractive city, finding a suitable and affordable place to live can take a little while. The University of Freiburg offers all newly enrolled international students the possibility to apply for student housing via the International Office. In addition to these dormitories, which are run by the Studierendenwerk Freiburg (<a href="http://www.swfr.de/en">www.swfr.de/en</a>), several independent residence halls are listed on the university website (<a href="http://www.housing.uni-freiburg.de">http://www.housing.uni-freiburg.de</a>). The Studierendenwerk Freiburg and the International Office also offer a list of available private rooms.</p>
<b>Career advisory service</b>	<p>In Strasbourg: Espace Avenir (<a href="https://espace-avenir.unistra.fr/formation/orientation-stage-emploi/espace-avenir#c138783">https://espace-avenir.unistra.fr/formation/orientation-stage-emploi/espace-avenir#c138783</a>)</p> <p>In Freiburg: at the Student Service Center (<a href="https://www.studium.uni-freiburg.de/en/student-services/career?set_language=en">https://www.studium.uni-freiburg.de/en/student-services/career?set_language=en</a>)</p>
<b>Support for international students and doctoral candidates</b>	<ul style="list-style-type: none"><li>• Specialist counselling</li></ul>

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## Our Partners



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# University of Freiburg

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The University of Freiburg was founded in 1457 as a classical comprehensive university, making it one of the oldest institutions of higher education in Germany. Awarded for its excellence in both research and teaching, the university also boasts a long history, with numerous Nobel laureates. Brilliant scholars and creative thinking distinguish it today as a modern, top-notch university, well equipped for the challenges of the 21st century. As an organisation with around 24,500 students, 288 degree programmes, and 6,536 employees (2021), the University of Freiburg is committed to family friendliness, equal opportunities, and environmental consciousness in its day-to-day operations. The structure of the university is multifaceted, ranging from 11 academic faculties – from the humanities and the social and natural sciences all the way to engineering – to 19 research centres. This goes to show that we are a dynamic, large-scale institution with a diverse educational offering. As studies, research, and continuing education are all an integral part of this offering, we maintain a close relationship with the city and the region as well as with the international academic community. Bilateral partnerships, research projects, joint study courses and memberships in international networks such as the League of European Research Universities (LERU) and of EUCOR – The European Campus are examples of the university's strong transnational relations. All our students, including those from abroad, can take courses at the Universities of Basel (Switzerland) and Strasbourg (France) without having to enrol. Via EUCOR, The European Campus mobility grant, they also receive allowances for travel expenses to their partner institutions.

[universität freiburg](https://www.uni-freiburg.de)

## University location

Freiburg im Breisgau is a city in south-western Germany on the edge of the Black Forest. Freiburg was founded by Konrad and Duke Bertold III of Zähringen in 1120 as a free market town – hence its name, which translates to "free town". Freiburg holds a central position in Europe at the trijunction of Switzerland, France, and Germany, and is the city with the most hours of sunshine per year in Germany. It is nestled in one of the oldest cultural landscapes north of the Alps, a location which has had an unmistakable influence on the town. The university plays an essential part in the quality of life in Freiburg; both in the academic sphere and in the perception of the general public, the activities of the university are of central importance. Since its founding, teaching, learning and research have formed an indivisible whole.

With approx. 230,000 inhabitants, Freiburg has a friendly size, offering the safe surroundings of a smaller city whilst at the same time excelling in terms of culture, shopping and infrastructure. Both the inhabitants and the city government of Freiburg attach great importance to ecological values and sustainable development. This "green city" atmosphere influences many aspects of city life – from the numerous cyclists on the streets to cutting-edge solar energy research. Surrounded by the beautiful landscapes of the Black Forest and the wine-growing regions of the Rhine Valley, Freiburg is a popular destination for tourism and leisure activities.

# Contact

## University of Freiburg

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🌐 Course website: <https://biophysicochimie.unistra.fr/de/>

📘 <https://www.facebook.com/unifreiburg>

🐦 <https://twitter.com/UniFreiburg>

🌐 <https://www.linkedin.com/company/albert-ludwigs-universit-t-freiburg-im-breisgau>

📷 <https://instagram.com/unifreiburg/>

📺 <https://www.youtube.com/c/Universit%C3%A4tFreiburg>

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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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