



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Bachelor's degree



## German-French-Luxembourgish Bachelor's Programme in Physics

Saarland University • Saarbrücken

### Overview

Degree	Bachelor's degree in Physics
In cooperation with	Université de Lorraine (France) and Université du Luxembourg
Teaching language	<ul style="list-style-type: none"><li>• German</li><li>• English</li><li>• French</li></ul>
Languages	The first year is in France, and all lectures are in French. The second year is in Luxembourg, and most lectures are held in English. In the third year, the students are in Germany, and most lectures are conducted in German and English.
Programme duration	6 semesters
Beginning	Winter semester
Application deadline	1 July for admission in September of the same calendar year
Tuition fees per semester in EUR	None
Joint degree / double degree programme	Yes
Description/content	<p>Physics is the subject of choice for all those who seek to understand the universe on both its largest scale (astronomy and cosmology) and its smallest scale (atomic and nuclear physics). Physics is the most fundamental of the natural sciences, and it has provided the foundation for many important technical developments, from lasers to quantum computers. The methods and techniques used in studying physics prove to be equally useful when describing the fundamental building blocks of life or estimating the risks associated with a particular financial investment. The Department of Physics at Saarland University runs a trinational Bachelor's degree programme in collaboration with the Université de Lorraine and the Université du Luxembourg. Students in the programme spend the first year studying in Nancy, the second year in Luxembourg and the third year in Saarbrücken. The degree programme teaches students the important fundamentals of classical mechanics, electrodynamics, thermodynamics and quantum physics. The programme also provides an excellent opportunity for students to improve their foreign language skills and develop their intercultural competence.</p> <p>As the programme is supported by the Deutsch-Französische Hochschule DFH (German-French University), students are eligible for mobility grants. As the trinational BSc programme in physics has been integrated into the DFH academic portfolio, specially tailored German and French preparatory courses and language training courses are available. Further information is available at: <a href="http://ci.physik.uni-saarland.de/index_de.php">http://ci.physik.uni-saarland.de/index_de.php</a>.</p>

# Course Details

## Course organisation

Students at the German-French-Luxembourgish Study Course in Physics begin their studies at the Université de Lorraine in Nancy, France. During their first year, students will be taught the important fundamentals of the subject. Modules in experimental physics cover the areas: classical mechanics, electrodynamics and thermodynamics. The supplementary theoretical and mathematics courses supply the necessary theoretical background and mathematical knowledge needed for future studies. Problem-solving classes and practical lab courses help students gain a stronger grasp of the material being taught and provide them with an opportunity to discover physical principles by themselves.

In the second year, students relocate to the Université du Luxembourg. Students consolidate and deepen what they learned in the first year and are introduced to the developments in physics in the 20th century. Students also take a course on the theoretical description of thermodynamics, and they receive an introduction to numerical physics, in which computer algorithms are used to simulate and model physical descriptions of reality.

The third and final year of the Bachelor's degree programme takes place at Saarland University. Here students undertake special courses in experimental physics (solid state physics, nuclear and elementary particle physics) and in theoretical physics (quantum mechanics). In the field of applied physics, students carry out advanced practical and lab work (partly within departmental and faculty research groups). This work forms the basis for the Bachelor's thesis in the final year of the programme. Students present the results of their projects in an oral presentation.

Students who have met all the academic course requirements will be awarded a "Bachelor Physik" from Saarland University and a "Bachelor en sciences et ingénierie: spécialisation physique" as well as a "Licence en physique et chimie de la matière de la terre: spécialisation physique". Students also receive a common diploma supplement document.

Language courses are available throughout the three-year programme to help students improve their foreign language skills.

For further information, please visit: [http://ci.physik.uni-saarland.de/index\\_de.php](http://ci.physik.uni-saarland.de/index_de.php).

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A Diploma supplement will be issued

Yes

International elements

- International guest lecturers

Special promotion / funding of the programme

- ERASMUS+
- Other (e.g. state level)

Course-specific, integrated German language courses

Yes

Course-specific, integrated English language courses

No

## Costs / Funding

Tuition fees per semester in EUR

None

Semester contribution

Approx. 300 EUR per semester

**Funding opportunities within the university** Yes

**Description of the above-mentioned funding opportunities within the university** Since the integrated programme is recognised and encouraged by the Franco-German University (DFH), the organisation provides each student a mobility aid of 350 EUR per month, for ten months per year at two of the three universities. In addition, we will organise the ERASMUS+ for the second year, which amounts to an additional approx. 270 EUR per month.

## Requirements / Registration

**Academic admission requirements** Applicants must have a German higher education entrance qualification ("Abitur") or a recognised equivalent higher education entrance qualification from the student's home country.

**Language requirements** Applicants must have German, French and English skills. However, no formal demands are made. To some extent, language skills can be acquired during the first year of the course.

**Application deadline** 1 July for admission in September of the same calendar year

**Submit application to** University of Saarland  
Prof Dr Christian Wagner  
Campus E2.6R321  
66123 Saarbrücken  
[christian.wagner@uni-saarland.de](mailto:christian.wagner@uni-saarland.de)  
<https://ci.physik.uni-saarland.de>

## Services

**Possibility of finding part-time employment** Students may be able to work at the department, performing tasks such as laboratory work.

**Accommodation** Rooms and apartments are relatively easy to find and are affordable. In Luxembourg, we will organise accommodation in a student residence.

**Support for international students and doctoral candidates**

- Welcome event
- Tutors
- Cultural and linguistic preparation

# Contact

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Experimental Physics

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🌐 Course website: <https://ci.physik.uni-saarland.de>

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# International Programmes in Germany - Database

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