



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



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# Master's degree



## Food Science and Technology

University of Hohenheim • Stuttgart



## Overview

Degree	Master of Science Food Science and Technology
Teaching language	<ul style="list-style-type: none"><li>English</li></ul>
Languages	Courses are held in English only.
Full-time / part-time	<ul style="list-style-type: none"><li>full-time</li></ul>
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	Deadline for non-EU applicants: 15 May Deadline for German and EU applicants: 15 June
Tuition fees per semester in EUR	Varied
Additional information on tuition fees	Currently, higher education is (almost) free at all public universities in Baden-Württemberg. Since the winter semester 2017/18, universities in Baden-Württemberg charge moderate tuition fees for non-EU international students. These fees amount to 1,500 EUR per semester. Students from the EU and the European Economic Area (EEA) as well as exchange students are excluded from these fees. Refugees are also not affected.
Combined Master's degree / PhD programme	No
Joint degree / double degree programme	No
Description/content	Modern food processing is concerned with the transformation of plant-based and animal-based raw materials into value-added, safe and stable food or nutrient formulas. The Master's programme in Food Science and Technology is research-oriented and focuses on the interface between complex food matrices and technical processes in the development and production of food. In this programme, students acquire expertise regarding the equipment and processes involved in

the processing of food, combined with a thorough understanding of the biogenesis of raw materials and their microbiological ecology. They learn to develop appropriate food formulas and processing techniques that allow for product-specific processing conditions in automated production processes using in-line sensor technology. The core of the programme consists of the development of new technologies for the production of food products that meet both consumer expectations and individual nutritional requirements, i.e. the transfer of basic research concepts into new technological approaches.

#### Current information

For further information on this degree programme, we invite you to attend our Master's info event (online via zoom): <https://www.uni-hohenheim.de/en/masters-informational-events>.

## Course Details

#### Course organisation

The programme in Food Science and Technology has a modular structure with each module encompassing at least one, but usually several, interconnected courses. These include lectures, exercises, seminars and practical courses in the laboratory.

In the first semester of the programme, the focus lies on connecting soft matter science approaches with microbiological knowledge and engineering methods needed to understand all aspects of the processing of the complex food matrix. You analyse treatment processes for food and explore new technology with which functional compounds from plant-based or animal-based raw materials may be efficiently gained, enzymatically modified or stabilised through encapsulation. At the same time, you learn scientific approaches, including modern chemical, physical, molecular and statistical methods, as well as methods for modelling and simulating unit operations, processes, and reactions. During practical courses you put your acquired skills to practice, whilst exploring food processing in natural scientific, engineering, and economic contexts during seminars.

Starting in the second semester, you are free to plan your studies according to your individual interests and preferred areas of specialisation. You do so by choosing from a wide range of elective modules, such as:

- Bioethanol and Distilled Spirits
- Advanced Technologies for Dairy Products and Alternatives
- Food Product Development
- Drying, Granulation, and Instantisation
- Advanced Meat Science and Technology
- Food Microbiology
- Biotechnology
- Integrated Bioprocess Engineering

The selection of elective modules on offer allows you to develop your scientific qualifications to include areas of the field not covered within the scope of the compulsory modules. You may also take modules in other areas of the life sciences, such as the nutritional sciences. In addition to subject-specific modules, you may complete modules offered in other Master's programmes in the natural sciences at the University of Hohenheim or at other universities, both in Germany and abroad.

The second year allows you to plan your studies freely according to your individual interests and preferred areas of specialisation. Knowledge and practical skills acquired in the first year are expanded by further specialising in selected areas of the field, such as the interaction between ingredients in the complex food matrix. The emphasis on conducting research increases. Project work modules give you the opportunity to apply your acquired skills within the context of a scientific project by independently planning and executing scientific research projects, with a supervisor providing guidance as needed.

The open structure of the second year also provides you with a perfect opportunity to study abroad or undertake a prolonged internship at national or international research facilities or in the life science industry. The last semester of the programme is reserved for the writing of a research-intensive Master's thesis.

<b>Integrated internships</b>	Students have the opportunity to complete an internship lasting a minimum of six weeks, in the context of an elective module. This internship may be integrated flexibly into the course of studies.
<b>Course-specific, integrated German language courses</b>	No
<b>Course-specific, integrated English language courses</b>	Yes

## Costs / Funding

<b>Tuition fees per semester in EUR</b>	1,500 EUR
<b>Additional information on tuition fees</b>	Currently, higher education is (almost) free at all public universities in Baden-Württemberg. Since the winter semester 2017/18, universities in Baden-Württemberg charge moderate tuition fees for non-EU international students. These fees amount to 1,500 EUR per semester. Students from the EU and the European Economic Area (EEA) as well as exchange students are excluded from these fees. Refugees are also not affected.
<b>Semester contribution</b>	Universities in Baden-Württemberg require their students to pay a semester contribution towards the administration costs, for student services and for the Student Parliament. Student services provide many benefits, such as discounted tickets for public transportation. The semester contribution amounts to approx. 185 EUR per semester.
<b>Costs of living</b>	<p>Baden-Württemberg has the highest standard of living in all of Germany. The downside is that living costs are slightly above the German average. However, the cost of living can vary enormously depending on your personal lifestyle and where you live. It is generally more expensive to live in a bigger city like Stuttgart, where the University of Hohenheim is located. As a rule of thumb, 800 to 900 EUR per month should be enough. The largest monthly expense is usually for rent – accounting for a third of the total cost of living for most students. These costs can be cut substantially by sharing a flat or living in a dorm. A typical example for monthly expenses could look like this:</p> <ul style="list-style-type: none"> <li>• Rent: 350 to 400 EUR</li> <li>• Health insurance: approx. 85 EUR</li> <li>• Public transport: approx. 30-50 EUR</li> <li>• Study materials: 100 EUR</li> <li>• Food and drink: 100 to 150 EUR</li> <li>• Leisure and hobbies: 50 to 100 EUR</li> </ul>
<b>Funding opportunities within the university</b>	No

## Requirements / Registration

<b>Academic admission requirements</b>	<p>1. A Bachelor's or equivalent degree completed at a domestic or foreign university that meets the following criteria:</p> <ul style="list-style-type: none"> <li>• programme lasted a minimum of three years and awarded a minimum of 180 ECTS credits</li> <li>• programme with a profile in the natural sciences or engineering</li> </ul>
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2. Documented proof of good English language skills (see below)
3. Documented proof of basic German language skills (see below)
4. Successful completion of the obligatory aptitude assessment

<b>Language requirements</b>	<p>Applicants must provide proof of good English language skills. Proof of language proficiency can be presented by obtaining one of the following accepted certificates:</p> <ul style="list-style-type: none"> <li>• Internet-based TOEFL test with a minimum of 90 out of 120 points</li> <li>• IELTS certificate with a minimum of 6.5 out of 9 points</li> <li>• UNICert II certificate with a minimum grade of "good"</li> </ul> <p>Applicants can be exempted from producing proof of language proficiency if they declare English to be their mother tongue and are citizens of one of the following countries: the United Kingdom, Ireland, Australia, Canada, New Zealand, the United States of America, Antigua and Barbuda, the Bahamas, Barbados, Dominica, Grenada, Jamaica, Saint Kitts and Nevis, Saint Vincent and the Grenadines, Trinidad and Tobago, Belize, Guyana OR have completed a Bachelor's or Master's programme with English as the language of instruction at a university in a country listed above or in a member state of the European Union.</p> <p>Applicants also have to provide proof of basic German language skills. Proof of language proficiency can be presented by obtaining one of the following accepted certificates:</p> <ul style="list-style-type: none"> <li>• UNICert I certificate with a minimum grade of "good" ("gut")</li> <li>• Goethe-Zertifikat B1: Zertifikat Deutsch of the Goethe Institut</li> <li>• Deutsches Sprachdiplom der Kultusministerkonferenz, level DSD 1</li> <li>• Test Deutsch als Fremdsprache (Test DaF) with a minimum score of 3 in all 4 examinations</li> <li>• the examination certificate of the DSH I (Deutsche Sprachprüfung für den Hochschulzugang, German Language Examination for University Admission)</li> </ul> <p>Applicants can be exempted from producing proof of language proficiency if they declare German to be their mother tongue or have a German higher education entrance qualification (e.g. Abitur).</p>
<b>Application deadline</b>	<p>Deadline for non-EU applicants: 15 May</p> <p>Deadline for German and EU applicants: 15 June</p>
<b>Submit application to</b>	<p>Please submit your application online via the following link:</p> <p><a href="https://www.uni-hohenheim.de/en/fse-apply">https://www.uni-hohenheim.de/en/fse-apply</a></p>

## Services

<b>Accommodation</b>	<p><b>Student residences on campus</b></p> <p>At the University of Hohenheim, several student residence halls are located on campus. They are managed by Student Services Tübingen-Hohenheim. There is a high demand for these rooms, which is why usually only a small number of applications will be successful.</p> <p>International (non-EU) students have a much more difficult time than Germans in finding private accommodation at the start of their studies when they are searching from their home countries. Therefore, the university provides a quota of rooms for international students. <b>This enables almost all new international students to have a room in a residence hall.</b> To be able to offer this special assistance at the start of studies, the rental duration for these rooms is limited to two years for Master's students.</p> <p>After this period, the <b>house-hunting assistance</b> offers support in finding a room on the private market.</p>
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# University of Hohenheim

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University of Hohenheim

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The oldest university in Stuttgart, the University of Hohenheim, is unique in its strong specialisation.

Founded in 1818 after devastating famines, the University of Hohenheim is not only engaged in intensive basic research but has traditionally also been committed to developing innovative solutions for some of society's pressing problems. To do so, the University of Hohenheim engages in a combination of scientific disciplines that is unique among German universities.

## **Strong in research and exceptionally well-connected**

Today, the University of Hohenheim is the leading university in agricultural research and food sciences as well as strong and unparalleled in natural, social, business, economic, and communication sciences. The combination makes it possible to find solutions for many global challenges. This is why the university puts great importance on maintaining an international network with numerous strong partners.

## **Award-winning range of degree programmes**

The degree programmes at the University of Hohenheim are innovative and adventuresome. The “Mobile Teaching” and “Humboldt Reloaded” pilot projects, promoting research-oriented studies, have been given the Ars Legendi Prize for excellence in teaching and other awards.

## **Specialisation Bioeconomy**

Bioeconomy is a joint specialisation of research and teaching in all subjects. This specialisation addresses the economics of the future, with new products and new production processes, involving raw material from plants, animals, or microorganisms.

## **The green campus of short distances**

The “green campus” of the University of Hohenheim is a concept that pertains not only to the content of its innovative programmes but also to the lush green environment on its campus. The green campus, with its short distances all around the Hohenheim Palace, is known as the most beautiful campus in the state. The university members value its personal atmosphere as well as the way that the campus facilitates a close proximity to colleagues.



The University of Hohenheim is located in Stuttgart, the capital of the federal state of Baden-Württemberg. Why is Baden-Württemberg such a popular place to live and work? Probably because it has one of the lowest unemployment rates in the entire country. Where there's a strong economy, there is also a strong education system.

If you ask someone abroad "What is Stuttgart famous for?", the answer is invariably, "Porsche, Mercedes and Bosch!" All these premium global players and many more have production sites in Stuttgart or in the region. As a result, they contribute to Baden-Württemberg's excellent reputation as one of the economic powerhouses of Europe.

Within Germany, Baden-Württemberg is at the forefront of the country's energy policy turnaround. The development and expansion of a sustainable energy economy is a top priority in the south-west.

### What should we be famous for?

Many things that make Stuttgart and the region special are not known abroad. Because you will stay here for a semester or two, you should know more about it:

- The Swabians are proud of the Swabian cuisine: Maultaschen (filled pasta), Spätzle (egg noodles) and Schnitzel. You will definitely love the Swabian specialties, including the famous German beer and the wines of Württemberg.
- Stuttgart is also famous for the "Cannstatter Wasen". This is the second biggest beer festival in Germany after Oktoberfest. It attracts more than four million visitors every year. The first Wasen was celebrated in honour of the foundation of the University of Hohenheim 200 years ago!
- Or maybe the region should be famous for the fact that the sun shines more often and for more hours here in the south-west than anywhere else in Germany. Additionally, the low crime rate means that Baden-Württemberg is one of the safest German federal states. As you might expect, it thus tops the scale of life expectancy and quality of life.
- We are proud of the diversity in our city! People from all over the world are living in Stuttgart. Stuttgart is an example for combining cosmopolitanism and successful integration. No other city in Germany has a higher proportion of international citizens. We are convinced that it is this diversity that makes us strong!

## Contact

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🌐 Course website: <https://www.uni-hohenheim.de/en/food-science-and-engineering-masters>

📘 <https://www.facebook.com/University.of.Hohenheim/>

🐦 <https://twitter.com/unihohenheim>

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

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# International Programmes in Germany - Database

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