



Deutscher Akademischer Austauschdienst
German Academic Exchange Service



Table of Contents

Master's degree	2
Earth and Climate System Science • University of Hohenheim • Stuttgart.....	2

Master's degree



Earth and Climate System Science

University of Hohenheim • Stuttgart



Overview

Degree	Master of Science
Teaching language	<ul style="list-style-type: none">English
Languages	Courses are held in English only.
Full-time / part-time	<ul style="list-style-type: none">full-time
Programme duration	4 semesters
Beginning	Winter semester
Application deadline	15 March for international applicants 15 May for German applicants
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	<p>In an era of climate change, an understanding of the Earth system is of fundamental importance. Its components interact in a complex way.</p> <p>Processes in the Earth's environment occur within a complex framework. Population growth, climate change, land use as well as food production and food security all play a vital part. The programme in Earth and Climate System Science is both interdisciplinary and research-oriented.</p>

Aspects of natural sciences are linked to topics in the agricultural and economic sciences. Students acquire an understanding of the key processes in the Earth system, including human activities. They are able to assess the Earth system's current status through analysis of various indicators. Graduates are able to simulate Earth system components (e.g. the regional climate) particularly over the land surface with a focus on land use and land management as well as on agricultural activities. This fundamental knowledge is essential for end users and decision-makers in the era of climate change in all climate regions. The Master's programme in Earth and Climate System Science was conceived at the University of Hohenheim in order to accommodate such wide-ranging and complex demands. It is the only one of its kind in Germany. The study programme is coordinated and coupled with ongoing international programmes in the field of weather, climate and Earth system research.

Graduates educated in these areas will become experts in developing concepts of sustainability aimed at protecting the Earth's environment and contributing to food security as well as steering the Earth's development and providing guidance to the general public, end users, and decision-makers. The University of Hohenheim has an excellent long-term record in this area of education and research.

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

In the course of their studies, students complete 17 modules and a Master's thesis. Acquisition of theoretical knowledge is combined with practical exercises including field measurements. Ten compulsory modules are dedicated to acquiring basic skills in and fundamental knowledge of Earth system science. For instance, in these modules, students study feedback mechanisms over the land surface by operating and analysing soil-vegetation-atmosphere models as well as agricultural and economic models.

Particularly innovative components of the programme are:

- the debate seminar in the second semester
- training in data assimilation as a key technology in weather forecasting, climate simulations and re-analyses of regional climate
- operation and analyses of regional climate models
- application of remote sensing for Earth system observations
- the synthesis of aspects of natural science with economic models

Students have the opportunity to deepen their knowledge in various fields of research within seven specialisation modules which take place in the second and third semesters.

For a short description of all modules, see: <https://www.uni-hohenheim.de/en/module-catalogue>

A Diploma supplement will be issued

No

Integrated internships

Not obligatory

Course-specific, integrated German language courses

Yes

Course-specific, integrated English language courses

Yes

Costs / Funding

Tuition fees per semester in EUR	1,500 EUR
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.
Semester contribution	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.
Costs of living	<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">• Rent: 350 to 400 EUR• Health insurance: approx. 85 EUR• Public transport: approx. 30-50 EUR• Study materials: 100 EUR• Food and drink: 100 to 150 EUR• Leisure and hobbies: 50 to 100 EUR
Funding opportunities within the university	No

Requirements / Registration

Academic admission requirements	<p>Please find information on the application procedure at: https://www.uni-hohenheim.de/en/ecss-application</p> <p>The selection committee evaluates applicants on the basis of the documents submitted and awards credits for potential and chances of success with regard to the study programme. Documented proof of the following information is taken into account for the assessment:</p> <ul style="list-style-type: none">• Applicants are required to have successfully completed a Bachelor's programme (or equivalent) with a profile in natural sciences, geosciences or agricultural sciences.• Degrees in agricultural biology, biology, and biobased products and bioenergy are accepted. The selection committee may accept further study programmes in the fields of natural sciences and engineering as related and amend the list accordingly.• Subject-specific coursework is recognised in the subjects mathematics, physics or chemistry. <p>The selection committee's evaluation scheme is based on the documents submitted. For each criterion, a set number of points will be given. A maximum of 45 points may be achieved. On the basis of the total points achieved by each eligible applicant, a ranking list is created which is the basis for admissions. The ranking list is based on:</p>
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- 2/3 overall grade of the undergraduate degree or the average grade of exams already taken
- 1/3 subject-specific academic achievements

Language requirements	<p>English language proficiency can be proven by presenting one of the following accepted certificates:</p> <ul style="list-style-type: none"> a) internet-based TOEFL test with a minimum of 90 points b) IELTS certificate with a minimum of 6.5 points c) UNlcert II certificate with a minimum grade of "good" <p>Applicants are exempted from producing proof of language proficiency if they</p> <ul style="list-style-type: none"> a) declare English to be their mother tongue and are citizens of one of the following countries: United Kingdom, Ireland, Australia, Canada, New Zealand, 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 b) have completed their Bachelor's studies with English as the language of instruction c) have visited a bilingual school at which one language of instruction was English d) have taken English as a school subject during the Oberstufe (final years) at a German Gymnasium (secondary school) with a minimum grade point average of "befriedigend" ("satisfactory", eight grade points) at the end of the Oberstufe.
Application deadline	<p>15 March for international applicants 15 May for German applicants</p>
Submit application to	<p>Please submit your application online via the following link: https://www.uni-hohenheim.de/ecss-application</p>

Services

Accommodation	<p>Student residences on campus</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. This enables almost all new international students to have a room in a residence hall. 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 house-hunting assistance offers support in finding a room on the private market.</p>
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University of Hohenheim



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.



University location

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 specialities, 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!

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🌐 Course website: <https://www.uni-hohenheim.de/en/earth-and-climate-system-science-masters>

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