

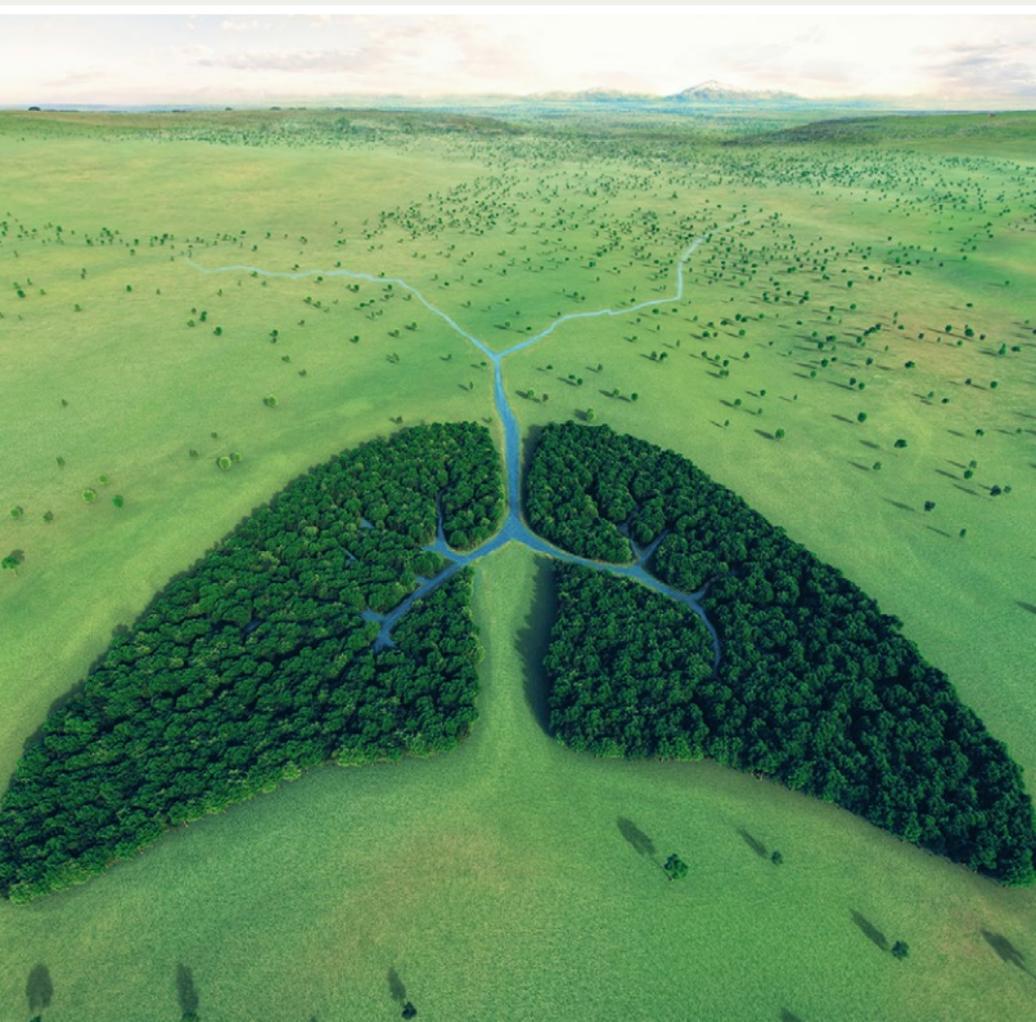


UNIVERSITÄT  
BAYREUTH

Master of Science

# Environment, Climate Change and Health

*A healthy and sustainable life in the context of  
climate change*





*For a long time, the prevailing view was that climate change essentially affects the abiotic and biotic environment of humans. Today, it is becoming increasingly clear that other global changes such as biodiversity loss or land-use change can also be accompanied by substantial physical and psychological hazards to humans.*

## Healthy planet, healthy humans.

How does climate change affect human health? Where do we meet patients already suffering from environmental changes? What options do we have to prevent diseases in the future and to maintain the health of the population? How can a climate-neutral, environmental friendly, and health-promoting lifestyle be guaranteed and implemented sustainably? What role do government, companies, or people as individuals play in this? In the Master's programme *Environment, Climate Change and Health* at the University of Bayreuth, you will face the challenges of the 21<sup>st</sup> century. The interdisciplinary degree programme, which is unique in Germany, identifies and analyses the framework conditions of climate change and its health effects, illustrates interrelationships, current concepts and theories, and provides guidance for joint solution-oriented action.



*The degree programme deals with topics of great relevance, from an economic and natural science point of view as well as from a social and environmental policy perspective. You will learn to understand problems relating to environment, climate change, and health from an integrative, interdisciplinary approach and to derive forward-looking measures from this.*

## Our climate needs highly skilled partners like you.

The world urgently needs more professionals who understand the impact of climate change on the susceptible relationship of people, animals, and the environment. With a Master's degree in *Environment, Climate Change and Health*, your interdisciplinary skills as a leader will be in great demand. With your skills, you can, for example, support national and international companies on their path to sustainability. You can work for United Nations agencies and aid programmes, start your career in the health sector, or opt for a research institution. Of course, political and policy advising institutions as well as non-governmental organisations are also potential employers for you. Benefit from a wide range of possibilities and opportunities in the exciting professional fields open to you.



*During your studies, you will work on concrete case studies. You will learn about scientific concepts and theories and deal with research methods and models. Interdisciplinary work is promoted just as much as creativity, negotiation skills, the ability to work in a team, and a sense of responsibility.*

## Your study programme, unique in Germany.

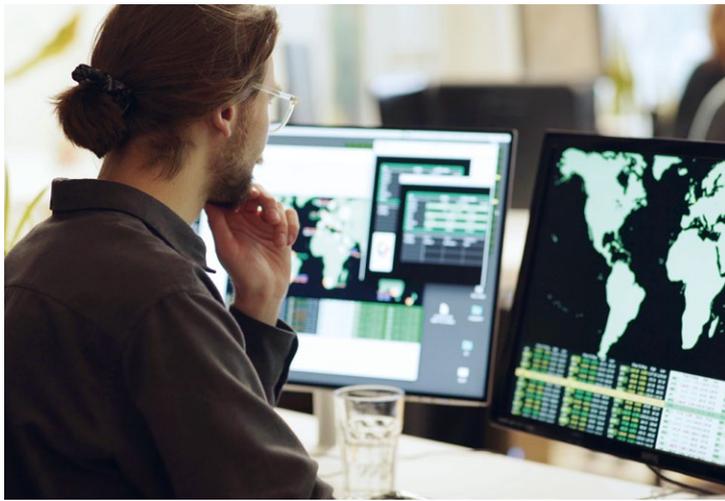
The study programme addresses the effects of climate factors and environmental changes on human and animal health, as well as potential adaptation strategies in a global context. The prerequisites for this are created by comprehensive interdisciplinary knowledge that you acquire during your studies. You will look at the complex system interrelationships from the perspective of several disciplines: the natural sciences, law and economics, as well as the social sciences. You will deal with questions of how to influence recognisable interdependencies, such as environmentally harmful lifestyles and disease risks. You will analyse financial incentive systems to achieve the defined 2 degree global warming target, deal with the consequences of an unstable climate, or with the challenges of justifiable environmental and climate legislation.

## Your studies at a glance, 4 semesters.

Basics in Environment, Climate Change and Health	ECTS*
Climate Change	5
Medicine and Climate Change I	5
Global Change Ecology	5
Global Health Policy	5
Ecosystems under Climate Change and Human Impact	5
Integrative Module – Lessons Learned+Lecture Series	5
<b>Total</b>	<b>30</b>
Environment, Climate Change and Health	ECTS*
Globalization of Economies and the Environment	5
Medicine and Climate Change II	5
Environment and Economics	5
Geographical and Spatial Dimensions of Global Change	5
Skills and Competences	10
<b>Total</b>	<b>30</b>
Multidisciplinary Training**	ECTS*
Global Urban Health	5
Migration and Health	5
International Environmental and Sustainable Development Law	5
Statistic and Analysis Tools	5
Food, Climate and Health Communication	5
Environmental and Resource Technology	5
Tools in Social Research	5
Sport Ecology	5
Global Political Economy of Food and Nutrition	5
<b>Total</b>	<b>15</b>
Summer School	5
Internship	10
Master thesis	30
<b>Total</b>	<b>120</b>

\*ECTS Credit points according to ECTS. The awarding of credit points (LP) according to the European Credit Transfer System (ECTS) supports the international comparability of academic achievements at European universities.

\*\* In the area of „Multidisciplinary Training“ you choose three out of nine modules.



*Students ideally complete a three-month internship abroad to extend the theoretical content of their studies and acquire relevant key skills.*

## A master with a pioneering spirit and lived interdisciplinarity.

The *Environment, Climate Change and Health* degree programme is optimally networked on the campus of the University of Bayreuth. The Faculty of Biology, Chemistry & Earth Sciences is located right next to the Faculty of Law, Business & Economics, which promotes close interdisciplinary cooperation. The Faculty of Life Sciences: Food, Nutrition & Health in Kulmbach covers another important part of the degree programme. Students can study sustainable food production, for example, or analyse the connections between nutrition and health, or social and cultural influences and their interactions. In addition, the programme is closely linked to the expertise of the *Institute for African Studies* at the University of Bayreuth. Moreover, the *Medical Campus Upper Franconia* opens up further practical connections for students.



*Our campus is the heart of the University. This is where friendships begin, collaborations start, and ideas are sparked.*

## Study conditions that achieve top marks in the rankings.

The University of Bayreuth has more than 13,000 students and is well-known for its friendly campus. Walking distances are short and you will quickly get to know students from other disciplines. Student life also promises plenty of diversion beyond the lecture halls. You can get involved in a variety of student organisations or take advantage of the extensive range of university sports. In addition, the campus offers various events – regular cinema performances, art exhibitions, theatre performances, numerous music events, and the annual Uni Open Air. Furthermore, the city of Bayreuth boasts a good range of housing at reasonable prices with an overall low cost of living. Last but not least, the extremely attractive leisure activities offered by the city of Bayreuth, the Fichtelgebirge, and the Franken Jura are definitely a plus.



### **An attractive course of study awaits you.**

We are pleased that you are interested in the international Master's programme *Environment, Climate Change and Health* at the University of Bayreuth. The admission requirement is a bachelor's degree in economics, social sciences, natural sciences, health sciences, health economics, nursing sciences, philosophical economics, or medicine with a final German grade of 2.5 or better (minimum 30 ECTS points in natural and/or health sciences).

Start of studies: winter semester only

Further information on the admission requirements can be found on the programme website:  
[www.ecch.uni-bayreuth.de](http://www.ecch.uni-bayreuth.de)

### **Programme Coordinator:**

Prof. Dr. Dr. med. habil. Dr. phil. Dr. theol. h.c.

Eckhard Nagel

Institute for Healthcare Management and Health Sciences

### **Programme Cocordinator:**

Prof. Dr. Carl Beierkuhnlein

Chair of Biogeography

### **Programme Coordination:**

Institute for Healthcare Management and Health Sciences

Prieserstraße 2, 95444 Bayreuth

Phone: +49 (0)921 55-4801

[ecch@uni-bayreuth.de](mailto:ecch@uni-bayreuth.de)

### **For further information, see:**

[www.uni-bayreuth.de](http://www.uni-bayreuth.de)

[www.twitter.com/unibt](https://www.twitter.com/unibt)

[www.instagram.com/uni.bayreuth/](https://www.instagram.com/uni.bayreuth/)