

## Advanced Degree Programmes

Goethe-University Frankfurt offers the following degrees to extend a BSc in Meteorology:

- Master of Science (MSc) Meteorology
- MSc Physics
- MSc Environmental Science
- MSc Computational Science

Students may continue their studies in one of these fields after successful completion of a BSc Meteorology.

## Counseling and Support

Preliminary information regarding the curricula can be found at the student services center:

Studien-Service-Center  
Zentrale Studienberatung  
Campus Westend  
PEG-Building  
Grüneburgplatz 1  
60323 Frankfurt am Main  
Tel. +49 (0)69-798-3838  
Office hours: Mon. and Wed. 2:30pm – 5:00pm,  
Tue. and Thu. 9:30am – 12:00pm  
Further details at:  
<http://www2.uni-frankfurt.de/36735485/zsb>

For field specific questions:

Fachstudienberatung Meteorologie  
Dr. Heinz Bingemer  
Altenhöferallee 1  
60438 Frankfurt am Main  
Room 3.319  
Tel. +49 (0)69-798-40257  
E-Mail: [Studienberatung@iau.uni-frankfurt.de](mailto:Studienberatung@iau.uni-frankfurt.de)

## Further Information

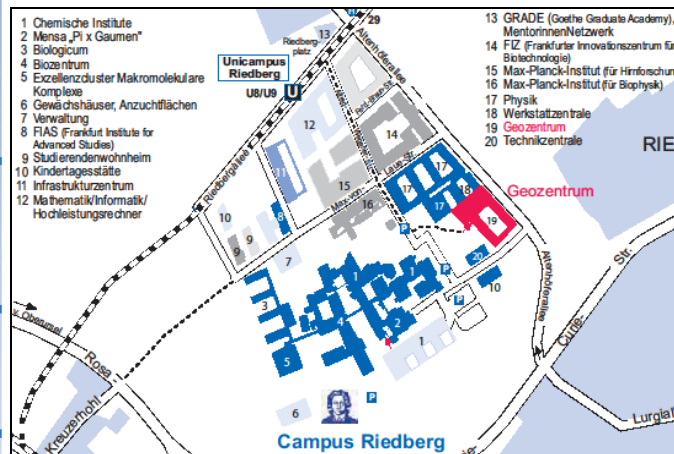
To get an impression of the Institute for Atmospheric and Environmental Sciences please visit:  
<http://www2.uni-frankfurt.de/45678073/IAU>

A detailed description of the BSc Meteorology curriculum can be found at:  
[http://www2.uni-frankfurt.de/43712757/meteorologie\\_bachelor](http://www2.uni-frankfurt.de/43712757/meteorologie_bachelor)

Objectives, subject matter, overall structure, and performance requirements of the Meteorology degree program are defined in the study regulations and can be downloaded from:  
<http://www2.uni-frankfurt.de/43713441/fachbeschreibung>

For general university admission requirements and procedures please visit:  
<http://www2.uni-frankfurt.de/34789085/bewerbung>

The Institute for Atmospheric and Environmental Sciences is located at the Geozentrum, Campus Riedberg, Altenhöferallee 1, 60438 Frankfurt am Main



## Meteorology (Bachelor of Science)



## Program Description

Meteorology is the science of weather and climate. It is a discipline of the geosciences, with strong roots in physics, which investigates atmospheric processes using empirical and theoretical methods. Apart from physics and mathematics, there are also connections to chemistry, oceanography, hydrology, and geography.

## Program Structure

The Bachelor of Science (BSc) Meteorology provides an ideal preparation for a subsequent professional career or further graduate studies (Master's degree). Since the study of meteorology relies heavily on mathematics and physics, most courses focus extensively on both topics during the first semesters. Only in later semesters does emphasis shift toward strictly meteorological topics. Along with the required courses there is a selection of electives that allow some freedom in composing the curriculum. Roughly half of the elective coursework should focus on meteorological topics. The remaining courses are offered primarily in:

- Physics

However, depending on the field of interest, minor degree coursework may be substituted in part or whole for the aforementioned electives. The following minor fields of study are available:

- Chemistry
- Geosciences
- Mathematics
- Economics
- Business Administration

The primary course of studies ends after six semesters, culminating in a bachelor thesis, which provides initial contact with contemporary research. Within a time frame of three months, the bachelor thesis may be written in a work group of the student's choice either at the institute or an external institution (e.g. the German Weather Service).

## Prerequisites

The core requirement for the bachelor degree program in meteorology is a German secondary school diploma or an equivalent recognized by the Hessian Ministry of Culture (§ 63 HHG). Also required are:

- an interest in physics
- a certain aptitude in mathematics

Advantageous but not required are:

- high school physics and/or chemistry
- good command of English
- computing and programming skills



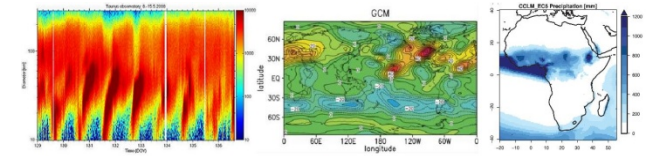
## Study in Frankfurt

The study of Meteorology in Frankfurt offers many advantages:

- close and on-site cooperation with the German Weather Service
- good individual supervision:
  - mentoring program
  - small tutorial groups
  - high professor to student ratio
- a variety of research topics from different work groups offers students a broad range of specialization opportunities
- the institute's affiliation with the Taunus observatory on the Kleine Feldberg facilitates experimental work in the field
- grouping of all important natural sciences (chemistry, physics, geo sciences) except mathematics on a single campus provides good interdisciplinary exchange
- good field-related job opportunities due to close proximity to the German Weather Service and the Hessian Environmental and Geological Agency, among others

- good transport connections to all campuses via the public transportation network

Frankfurt also has much to offer outside of university life, not least due to its cultural diversity



## Professional Fields of Activity

Although the full spectrum of possible occupations becomes available to meteorologists only after successful completion of a masters degree and a doctorate, a bachelor of science offers the first internationally recognized degree that substantiates the graduate's capabilities in applying scientific techniques in a professional field of the natural sciences. Apart from a high standard in analytical abilities, qualifications such as teamwork, presentation skills, computational skills, and many more, are attained during the course of study. Meteorologists are therefore often sought after in the economic, industrial, and public sectors. Typical fields of occupation are:

- German Weather Service and private sector weather services
- environmental agencies
- research and development in the areas of environmental engineering and renewable energies
- public administration
- Management
- banking and the stock exchange
- systems analysis
- data processing and analysis
- patent laws, and
- business consultancy