

Meteorological Student Exchange Program



About the Student Exchange Program

It is often desirable for meteorologists to have an understanding not only of their regional weather and climatic conditions, but also of these conditions around the world. This increased knowledge results in further understanding of meteorological principles and the ability to apply them to different conditions. To achieve this goal, a student exchange program between Nanjing University of Information Science and Technology (NUIST), China, and the University of Hamburg (UH), Germany, was developed in 2006.

Both NUIST and UH are leading institutions in the field of Atmospheric Sciences in their respective countries.

The exchange typically takes place in the 3rd year for Nanjing and Hamburg students. Students who are not able to follow lectures in the language of the partner university will be given the chance to carry out study projects or internships. Exchanges during the Master-Phase or PhD-Phase are also envisaged.

About the Universities

The University of Hamburg is located in the centre of Hamburg, the second largest city of Germany with about 2 million inhabitants. Hamburg University has identified atmospheric science as one of the university's priority research areas. The Meteorological Institute at the University of Hamburg is one of the largest academic units for meteorology in Germany. It is a member of the Centre for Marine and Climate Research (ZMAW), and closely linked to the Max Planck Institute for Meteorology. Together with the German Computer Centre for Climate Research, the Institute is equipped with most up-to-date computers ranging from Super Computers to ordinary PCs. As the only meteorological institute in Germany, a laboratory with several boundary layer wind tunnels equipped with advanced instrumentation is operated. Hamburg University has a comprehensive atmospheric science program, and offers a wide range of subjects in meteorology and climatology.

Nanjing University of Information Science & Technology (NUIST), founded in 1960 and renamed from Nanjing Institute of Meteorology in 2004, was designated in 1978 as one of the key institutions of higher learning in China. The College of Atmospheric Sciences together with the WMO Regional Training Centre Nanjing at NUIST is one of the largest meteorological institutions in China, with 1200 undergraduate students and 400 graduate students. This College has six laboratories including the Weather Laboratory, and shares the Key Laboratory of Meteorological Disasters with other three colleges at NUIST. The laboratories are equipped with a SGI Altix3700 supercomputer and a variety of advanced instrumentation. NUIST has a comprehensive meteorological program. International education and training for meteorologists are highly encouraged and supported by the government as well as the university.

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Approved Exchange Courses

The College of Atmospheric Sciences of Nanjing University of Information Science and Technology and the Meteorological Institute, University of Hamburg, have agreed on the following subjects and courses as a basis for exchanges of their students:

Nanjing Year-3 Students at Hamburg University

NUIST's students should choose at least 4 subjects* from the following list for the chosen semester of study* at UH.

Summer Semester (April - mid July)

- 15.504 - Turbulence and Boundary Layer(Lectures)
- 15.505 - Turbulence and Boundary Layer (Exercises)
- 15.507 - Atmospheric Thermodynamics (Lectures)
- 15.508 - Atmospheric Thermodynamics (Exercises)
- 15.509 - Atmospheric Optics (Lectures)
- 15.510 - Theoretical Meteorology I (Lectures)
- 15.511 - Theoretical Meteorology I (Exercises)

Winter Semester (October - mid February)

- 15.515 – Hydrodynamics (Lectures)
- 15.517 – Hydrodynamics (Exercises)
- 15.520 - Synoptic Meteorology (Lectures)
- 15.521 - Climate Physics (Lectures and Exercises)
- 15.522 - Meteorological Statistics (Lectures)
- 15.523 - Meteorological Statistics (Exercises)
- 15.524 - Aerosol and Cloud Physics
- 15.525 - Technical Meteorology (Lectures)
- 15.526 - Technical Meteorology (Exercises)

**Subject choices should be discussed with liaisons and advisors to assure suitability*

Remark:

Exchange students at undergraduate level should understand German since most courses are taught in German. However, English serves as a second language. Staff and students in Hamburg are more or less fluent in English. Most textbooks are in English, exams can be taken and reports can be written in English. It is suggested that Chinese students arrive in Hamburg in January or August and attend an intensive language course before they take on the meteorological lectures.

Students who speak English only can be accepted for internships in one of the institute's research groups.

Hamburg Year 3 Students at NUIST

UH's students should choose at least 4 subjects* from the following list for the chosen semester of study at NUIST.

Summer Semester (March - mid July)

- 001. Theoretical Meteorology I (Lectures)
- 002 Numerical Weather Prediction (Lectures)
- 003. Synoptic meteorology II (Lectures)
- 004. Weather Information Service (Lectures)
- 005. Weather Analysis II (Practice)
- 006. Weather Observation (Practice)
- 007. Comprehensive Weather Forecast (Practice)

Winter Semester (September -mid February)

- 008. Tropical Meteorology (Lectures)
- 009. Plateau Meteorology (Lectures)
- 010. Synoptic Meteorology I (Lectures)
- 011 Theoretical Meteorology II (Lectures)
- 012. Weather Analysis I (Practice)
- 013. Numerical Simulation (Practice)
- 014. Short-term Climate Prediction (Practice)

Remark:

Exchange students at undergraduate level should understand Chinese since most courses are taught in Chinese. However, English serves as a second language. Staff and students in NUIST are more or less fluent in English or German. Most textbooks are written in Chinese. Reports can be written in English as well as in German. It is suggested that German students arrive at NUIST in March or September and attend an intensive language course before they take on the meteorological lectures.

Students who speak English or German only will be accepted for internships in one of the institute's research groups.

Additional Information

For additional information on subjects and the universities, contact the student liaisons or go to:

<http://www.mi.uni-hamburg.de> for information on the University of Hamburg's and on
<http://www.nuist.edu.cn/english/> for information on NUIST's meteorology program.