

Schwäbisch Gmünd

The largely-preserved medieval town of Schwäbisch Gmünd has about 60.000 inhabitants and is part of the UNESCO World Heritage "Roman Limes". Schwäbisch Gmünd is the ideal place for students who prefer a cosy town with a rich cultural heritage and a magnificent landscape. The urban life of Stuttgart (approximately 600.000 inhabitants), the capital of South-West Germany, is only 40 minutes away by train, with its museums, theatres, shopping facilities and such famous companies such as Daimler and Porsche.

Accommodation and student life

International exchange students find very comfortable surroundings where they quickly feel at home. The International Office offers them a full range of services and activities: orientation and counselling before and during their study abroad semester, affordable accommodation (approx. 313,- € for a fully equipped single room in our dorms), a buddy system, cultural and social leisure events, sports facilities, and free German language courses.

How to apply

The application form can be downloaded from our website:
<https://www.ph-gmuend.de/en/ph-gmuend/international/international-exchange-students>

Application deadline: November 30th

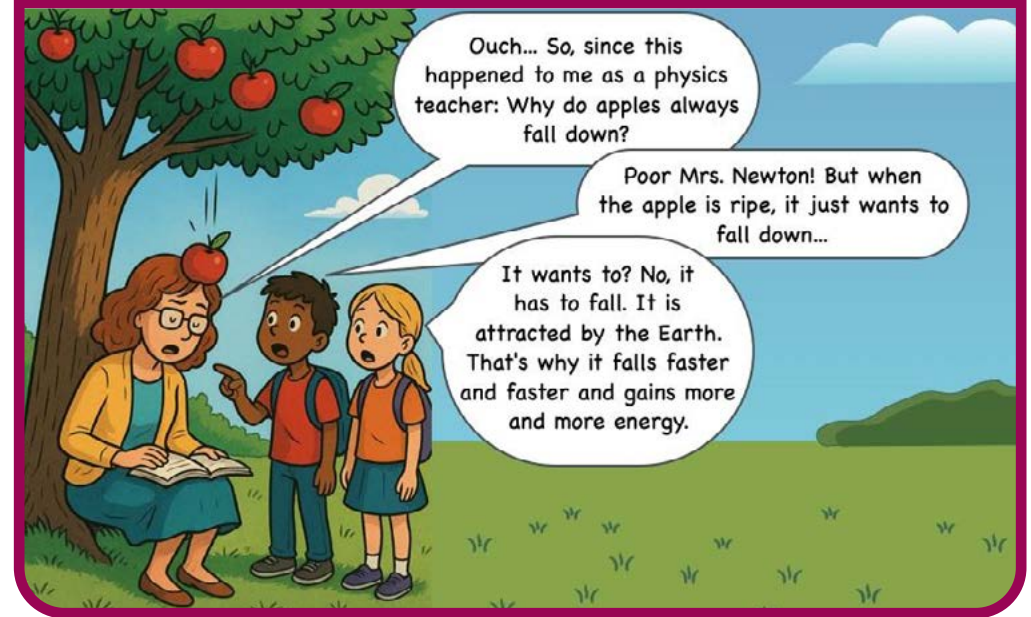
Contact

<https://www.ph-gmuend.de/en/international/internationale-programme-projekte/translate-to-english-stem-education-in-motion-daad-modelprojekt-lehramtinternational>

University of Education Schwäbisch Gmünd
Oberbettringer Str. 200
D -73525 Schwäbisch Gmünd (Germany)
www.ph-gmuend.de



STEM Education in Motion: STEM Teacher Education in international context



With funding from the:



Erasmus+
Enriching lives, opening minds.



STEM Education in Motion: STEM Teacher Education in international context

Aim & Contents

The programme will focus on the internationalisation of STEM Teacher Education – what challenges do occur and how to tackle them. The courses give the opportunity to study together in an international group. It combines academic theory with its practical application.

Target groups

STEM teacher training students for primary and secondary education. International students will study together with local students!

Language

The course language is English (level B2 is required). The courses will take place in a German speaking environment; however, the communication with the staff at the institutions can take place in English.

Assessment

Each course includes an assessment based upon oral and/or written exam. The exact form of examination will be specified in the course. For courses marked with an asterisk (*), more ECTS can be earned upon prior consultation with the course lecturer.

Details of the program

www.ph-gmuend.de > International > Coming to Schwäbisch Gmünd > International exchange students > Courses in English

All courses are subject to change. Observation placements at local schools can be arranged upon request

Other courses taught in English at our University

www.ph-gmuend.de > International > Coming to Schwäbisch Gmünd > International exchange students > Courses in English

Students with a good knowledge of German (B2) are welcome to the entire range of our courses. The complete course catalogue can be found under <https://www.ph-gmuend.de/studium/studienorganisation/vorlesungsverzeichnisse>



Courses

Act & Reflect smart: STEM Education in Motion (3 ECTS)

This course focuses on the development, identification, and instructional support of students' conceptions and misconceptions in STEM education. This includes: analysis of classroom vignettes to link theoretical perspectives with practical applications.

Current topics and international perspectives in science and technology education (4 ECTS)

This seminar discusses current international publications. Students have the opportunity to plan their own small research projects and, after presenting them in the seminar, subject them to peer review.

Didactics of Geometry (2 ECTS)*

This seminar explores the foundations of geometry didactics in primary school. Students work with classroom materials, analyse typical misconceptions, and develop rich learning opportunities that help children build strong geometric thinking.

Introduction to fundamental questions in astronomy from the perspective of science education (3 ECTS)

In this course, students will learn basic astronomical concepts even without specialized prior knowledge. From the Big Bang to the life cycle of stars to our home galaxy, the solar system.

Misconceptions and Teacher Decision-Making in Mathematics Education (4 ECTS)

This seminar focuses on student misconceptions in mathematics and how teachers can respond to them professionally. This includes analysing classroom vignettes that simulate authentic classroom situations, diagnose conceptual difficulties and reflect on instructional strategies.

Hybrid Machine Certificates for Maker Tools (2 ECTS)*

This course combines working with advanced maker tools (e.g. 3D printers, CNC machines) with theoretical knowledge. This includes a hybrid learning experience via online modules and practical phases (e.g. project-based exercises).

"Understanding Place Value" (4 ECTS)

This course offers an engaging introduction to mathematics education in primary school, with a strong focus on place value. The seminar combines theory (e.g. analyse children's thinking) and hands-on work (e.g. designing learning environments).

Education, Culture and Language in Germany (9 ECTS)

Educational systems can only be understood within their cultural contexts. This module includes: a weekly German language course (different levels available); German history, culture and society (including cultural excursions) and the course Perspectives on Culture and Education.