

University of Applied Sciences Bingen

Lists of modules offered in English

Bachelor Modules					
Englisch Module title	German Modul title	Short name	Course administration / Lecturer	Summer / Winter	Listed in degree programme
Introduction to Digital Image Processing	Einführung in die Digitale Bildverarbeitung	DIBI	Dr. Görmez	shifting	Bachelor Applied Bioinformatics
Individual Profiling	Individuelle Profilbildung	PROFI	Prof. Dr. rer. nat. Schmidt	shifting	Bachelor Informatics
Fuel Cells	Brennstoffzellen	BRZE	Prof. Dr.-Ing. habil. Michael Mangold	Summer	Bachelor Mechanical Engineering
Master Modules					
Englisch Module title	German Modul title	Short name	Course administration / Lecturer	Summer / Winter	Listed in degree programme
Applied comparative genomics	Angewandte vergleichende Genomik	ACOG	Prof. Dr. Asis Hallab	Winter	Master Synthetic Biotechnology

Bachelor and master exchange students can also choose courses from the master degree programmes [Environmental Sustainability](#) and [Informatics / Computer Science](#). You will also find our list of [English friendly modules](#) below.

Module overview master degree programme Environmental Sustainability

(last update 02-2026, [latest version of the module handbook here](#))

English module titel	Lecturer	Semester
World Heritage Summer School	Dr. Bettina Kempf	irregularly
Ecological Intensification of Agricultural Systems	Prof. Dr. Elmar Schulte genannt Geldermann	Summer
Environmental Impacts of Climate Change	Prof. Dr. Elke Hietel, Prof. Dr. Oleg Panferov	Summer
Geographic Information Systems	Dipl.-Ing. Sigrid Daub-Spielmann	Summer
Georisks	Dr. Anna Reusch-Oehler	Summer
Internatonal Sales with Case Studies	Prof. Dr. Stefan Gabriel	Summer
International Water and Waste Management	Prof. Rainer Hartmann, Prof. Dr. Mike Heath	Summer
Life Cycle Assessment - Case Study	Prof. Dr. Thilo Kupfer	Summer
Professional English	Birgit Hoess	Summer
Renewable Energies	Prof. Dr.-Ing. Frieder Kunz	Summer
Sustainable Business Administration and Simulation	Prof. Dr.-Ing. Christian Reichert, Dr. rer. nat. Martin Pudlik	Summer
Academic English	Birgit Hoess	Winter
Air Resources	Prof. Dr.-Ing. Dr. rer. nat. Sven Meyer	Winter
Atmospheric Chemistry	Prof. Dr. Katharina Lenhart	Winter
Climate Risk Assessment	Dr. Borbála Katalin Pájer-Gálos	Winter
Conflicts and Synergies in Climate and Environmental Protection	Prof. Dr. Oleg Panferov	Winter
Emission and Immission Lab. Air & Noise	Prof. Dr.-Ing. Frieder Kunz, Prof. Dr.-Ing. Dr. rer. nat. Sven Meyer	Winter
Energetic Use of Renewable Materials	Prof. Dr. Oliver Marcus Türk	Winter
Environmental Controlling	Prof. Rainer Hartmann	Winter
Environmental Impact of Plastics	Prof. Dr. Oliver Marcus Türk	Winter
Environmental Noise Control	Prof. Dr.-Ing. Frieder Kunz	Winter
Fuel Cells	Prof. Dr.-Ing. Michael Mangold	Winter
Global Environment and Sustainability Management	Ingo Weiss	Winter
Life Cycle Assessment	Dr. András Polgár	Winter
Material Flow Management	Prof. Dr. Oliver Marcus Türk	Winter
Remote Sensing of Environmental Changes	Dr. Elena Zakharova	Winter

Renewable Materials	Prof. Dr. Oliver Marcus Türk	Winter
Renewable Materials - Practical Course	Prof. Dr. Oliver Marcus Türk	Winter
Restoration Ecology	Prof. Dr. rer. nat. Michael Rademacher	Winter
Sustainable Agricultural Economics	Prof. Dr. Thore Toews	Winter
Marine and Mediterranean Ecosystems 2	Prof. Rainer Hartmann	Winter/Summer

Module overview master degree programme Informatics / Computer Science

(last update 02-2026, [latest version of the module handbook here](#))

English module titel	Lecturer	Winter/Summer
Computer Science		
Advanced Database Systems (VEDA)	Prof. Dr. rer. nat. Schmidt	Summer
Artificial Intelligence (AI) (ARTI)	Prof. Dr. rer. nat. Marx	Summer
Scientific Course (WISE)	Prof. Dr. rer. nat. Marx	Winter/Summer
Architecture of Information Systems (SYSE)	Prof. Dr. Daniel Kulesz	Winter
Systems Analysis (SYSA)	Prof. Dr. Mehler	Winter
Mathematics		
Higher mathematics for information systems (HÖMA)	Prof. Dr. Schäfer	Summer
Electives Computer Science		
Advanced Project Management (comprehensive) (PROJM)	Prof. Dr. rer. nat. Marx	Summer
E-Learning (ELEA)	Prof. Dr.-Ing. Mengel	Summer
Simulation (SIMU)	Prof. Dr.-Ing. Luckas	Summer
Network Security (NETS)	Prof. Dr.-Ing. Graffi	Summer
Game Programming (GAME)	Prof. Dr. Hallab	Winter/Summer
Planning and Scheduling (AI) (PLANS)	Prof. Dr. rer. nat. Marx	Winter/Summer
Safe and Secure Programming in Rust (RUST)	Prof. Dr. Daniel Kulesz	Winter/Summer
Computer Vision (AI) (COVI)	Dipl. Phys. Haag-Pichl	Winter
Natural Language Processing (AI) (NALP)	Prof. Dr. rer. nat. Marx	Winter
Advanced Data Mining with R and JavaScript on GNU/Linux (AI) (ADAM)	Prof. Dr. Hallab	Winter
Autonomous and Mobile Robots (AI) (AROB)	Prof. Dr. rer. nat. Marx	Winter
Advanced Software Engineering: Principles & Structures (comprehensive) (ADSE)	Prof. Dr. Daniel Kulesz	Winter
Model-Based Software Engineering (MBSE)	Prof. Dr. Brings	Winter

Electives Interdisciplinary		
Innovation & IT (comprehensive) (INOV)	Prof. Dr. rer. nat. Marx	Summer
Current Topics in Software Engineering (comprehensive) (CTSE)	Prof. Dr. Brings	Summer
Individual Profiling (Master) (IPROF)	Prof. Dr. Daniel Kulesz	Summer
ERP in the Cloud (ERPC)	Prof. Dr. rer. nat. Marx	Winter
Business Models and IT-Strategy (comprehensive) (BMST)	Prof. Dr. Mehler-Bicher	Winter
Electives Mathematics		
Advanced Topics in Discrete Optimization (ATDO)	Prof. Dr. Schäfer	Winter

English friendly modules

We presorted a list of German taught modules which has at least one of the following characters:

- Mixed language during lecture or the lecturer is open for English speaking hearers
- Course literature is (almost) completely in English
- Subject of instruction has an international syntax such as programme code or Mathematics

Bachelor modules					
Englisch module title	German module title	Short name	Course administration / Lecturer	Summer / Winter	Listed in degree programme
Agrarmeteorologie	Agricultural Meteorology	AMET	Prof. Dr. Oleg Panferov	Summer	Bachelor Agriculture
Klimaschutz in der Landwirtschaft	Climate protection in agriculture	ASCH	Prof. Dr. Oleg Panferov	Winter	Bachelor Agriculture
Zellbiologie	Cell Biology	ZEBI	Prof. Dr. Lehmann	Summer	Bachelor Applied Bioinformatics
Rechnersystem-Infrastrukturen	Computer Systems Infrastructures	REIN	Prof. Dr.-Ing. Lang	shifting	Bachelor Applied Bioinformatics
Vertiefung Web-Technologien	Advanced Web Technologies	WETE2	Prof. Dr. rer. nat. Rodrian	Winter	Bachelor Applied Bioinformatics
Gentherapie und Personalisierte Medizin	Gene Therapy and Personalized Medicine	GEME	Prof. Dr. Maik Lehmann	Summer	Bachelor Biotechnology
Current Bioinformatics	Current Bioinformatics	CBIO	Prof. Dr. Asis Hallab	Summer	Bachelor Biotechnology
Komparative Genomik	Comparative Genomics	KOGE	Prof. Dr. Asis Hallab	Winter	Bachelor Biotechnology
Data Mining mit R	Data Mining with R	DATR	Prof. Dr. Asis Hallab	Winter	Bachelor Biotechnology
Systembiologie	Systems Biology	SYBI	Prof. Dr. Asis Hallab	Summer	Bachelor Biotechnology
Pharmakologie und Toxikologie	Pharmacology and Toxicology	PHAR	Prof. Dr. Maik Lehmann	Winter	Bachelor Biotechnology
Scientific Communication and Management	Scientific Communication and Management	SCIM	Dr. Ralf Dahm	Summer	Bachelor Biotechnology
Algorithmische Bioinformatik	Bioinformatics Algorithms	ALBI	Prof. Dr. Asis Hallab	Summer	Bachelor Biotechnology
Web-Technologien	Web Technologies	WETE1	Prof. Dr. Brings	Summer	Bachelor Informatics
Enterprise Programmierung	Enterprise Programming	EPRO	Prof. Dr. rer. nat. Marx	Winter	Bachelor Informatics
Mathematik 3	Mathematics 3	MAT3	Prof. Dr. Schäfer	Winter	Bachelor Informatics

Master modules					
Englisch Module title	German Modul title	Short name	Course administration / Lecturer	Summer / Winter	Listed in degree programme
Verkehrssimulation	Traffic Simulation	ANVS	Prof. Dr.-Ing. habil. Michael Mangold	Winter	Master Mechanical Engineering
Angewandtes Maschinelles Lernen	Applied machine learning	APML	Prof. Dr. Florian Heigwer	Winter	Master Synthetic Biotechnology
Wissenschaftliche Daten des Genoms	Genome Data Science	GESC	Prof. Dr. rer. nat. F. Heigwer	Winter	Master Synthetic Biotechnology
CRM und International Sales	CRM und International Sales	CRIS	Prof. Dr. Stefan Gabriel	Summer	Master Industrial Engineering
Agile Methoden	Agile Methods	METH	Prof. Dr. C. Weiß	Winter	Master Industrial Engineering
International Business Administration	International Business Administration	INBU	Prof. Dr. Hartmut Sommer	Winter	Master Industrial Engineering

In almost all degree programmes it is possible to write a thesis, study paper or research project in English, after consulting the lecturer.

Please note that the modules offered may change due to timetable changes. Contact the International Office in a timely manner. incoming@th-bingen.de