Business Engineering in Environmental Science

Degree	**Bachelor of Engineering (B.Eng.)**
Type of study	**Full-time study**
Standard period of study	**7 semesters**
Commencement of studies	**Winter semester (1 Oct)**
Credits (ECTS)	**210**
Language of instruction	**German**
Department / Central Institute	**Department of Business and Economics**

Degree programme

Sustainability encompasses actions such as stopping climate change, devel- oping and implementing innovative power-generation concepts, reducing pollution, providing clean drinking water and conserving natural resources. In short, it means addressing a range of social, economic and technological challenges to cater for the needs of the current population without endangering the chances of future generations. Moreover, its realization needs qualified experts to design and implement the processes involved.

The interdisciplinary degree programme incorporates this holistic approach in its syllabus. The Beuth University of Applied Sciences and the HWR Berlin have joined together to provide a Bachelor's degree programme which reflects the expertise of both institutions. Focussing on Environmental and Sustainable Management and Environmental and Process Engineering, we have developed a high-quality programme which combines the principles of Engineering and Economic Sciences with a wider field of view (e. g. Envi- ronmental Engineering and Renewable energies, Sustainable Operations and Company Environmental Management) and a range of key skills. The pro- gramme includes a practical phase and permits students to spend a semester at one of our international partner universities. After all, the Environment and Sustainability are global topics.

Professional field

Graduates proficient in a combination of Economics and Engineering are highly sought-after on the employment market, both in small start-ups, SMEs, Man- agement Consultancies and NGOs. Graduates of this course often progress to positions of responsibility in the Energy sector; strategic and practical Product and Facility Design; the Resource, Waste and Production Management sector; the Commercial Environmental, Work Safety and Quality Management sector; and Commercial and Consumer advisory services.

Degree structure

The programme is structured into a four-semester foundation course and a three-semester specialization phase. After a combined Business Administration and technical-based training, students then study a number of central issues in greater detail whilst choosing to specialize in Economics or technical issues.

Guidance for prospective students

Student Counselling Service

+49 30 30877-1254
studentcounselling@hwr-berlin.de

Telephone consultation hours
Tue, Thu 14.00–15.00

Student advisory service

Department of Business and Economics
Elzbieta Zielonka
Study Office 2 (Bachelor Business Engineering in Environmental Science)

+49 30 30877-1268
umwelt@hwr-berlin.de

The foundation course is divided equally between the HWR Berlin and the Beuth University of Applied Sciences.

Course contents

Foundation (1st –4th semesters) Economic Principles – HWR Berlin
Financial and Managerial Accounting; Industry and Society; Economics; The Principles of Sustainable Economics; Investment & Financing; Statistics; Business Law; Strategic Financial Planning and Evaluation; Marketing; Organisation & Personnel;
Environmental and Technology Law;
Sustainability in the Value Creation Chain; Business English

Technical Scientific Foundations – Beuth University of Applied Sciences
Mathematics for Engineering; IT; Physics;
Thermodynamics and Thermal Transfer; Environmental Chemistry;
Mechanics/Mechanics of Materials; Automation & System Technology; Machine Elements & Design; Unit Operations with Laboratory; CAD/CAE; Technical English;
Heat Transfer and Fluid Dynamics Laboratory; Apparatus Engineering in Environmental and Process Engineering

Specialist stage (5th –7th semesters) HWR Berlin
Management Systems for Environmental Sustainability; Quality & Occupational Safety; Project Management; the Analysis of Commercial Sustainability;
Sustainable Energy and Resource Economics; Key Qualifications; Personal Competence and Supervision

Beuth University of Applied Sciences
Facility Design and Simulation; Environmental Process Engineering with Laboratory; Power Engineering; Regenerative Energies; Sustainable Process Engineering;
Integrated Environmental Engineering with Laboratory

Practical phase (6th –7th semesters)
Internship semester in a company; internship semester at the HWR Berlin or the Beuth University of Applied Sciences

Admission requirements

- University entrance qualification or an entrance qualification for a University of Applied Sciences

Application procedure and deadlines

The application is to be submitted to the Beuth University of Applied Sciences

Aplication period with a non-German university entrance qualification:
15 April – 15 June

Accreditation

Programmakkreditiert durch den Akkreditierungsrat

Fees and grants

Tuition fees	**None**
Semesterfee	**ca. € 300 per semester (incl. local transport semester ticket)**