

Admission Criteria for the Master BIPM at BSEL (HWR Berlin)

*This is a list with subjects from last year's application process for your use. It is **not** a complete list of all possible subjects, but for your orientation only.*

Bachelor Degree

- **Banking and Finance**
- **Business Administration**
- **Business Information Systems**
- **Civil Engineering**=> OK, if all 3 areas Bus.Admin., Quant. /DB, und informatics are covered
- **Commerce**
- **Computer Science**
- **Economics** => OK, if all 3 areas Bus.Admin., Quant. /DB, und informatics are covered
- **Electronic Engineering** => OK, if all 3 areas Bus.Admin., Quant. /DB, und informatics are covered
- **Logistics** => OK, if all 3 areas Bus.Admin., Quant. /DB, und informatics are covered
- **Management Science**
- **Telecommunications** => OK, if all 3 areas Bus.Admin., Quant. /DB, und informatics are covered
- **Technology - Instrumentation**

Bachelor Degree not possible

- **International Relations**

Business Administration possible courses

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| <ul style="list-style-type: none"> • Accounting • Basics of Industrial Social Economics and Management • Business Administration • Business Communication • Business Economics • Cost Management System • Cross Culture Management • Decision Theories • Economy and Management of the Institutions • Entrepreneurship • Finance • Finanz-Engineering • Financial Management • Financial Reporting • Financial Accounting • Foundations of Business • General Management • Human Resources • Industrial Management • International Management • Intro. Management • Investment and investment Projects • Knowledge Management • Leadership • Management • Management Consulting • Managerial Accounting • Marketing | <ul style="list-style-type: none"> • Marketing Communication • Organization • Organization Behaviour • Operations Analysis • Operational Research • Operations Management • Performance Management • Production Management • Project Management • Project Formulation and Assessment • Principles of Engineering Economics Management Techniques • Quality Management • Risk Management • Strategic Management • Supply Chain Management • Technological Entrepreneurship and Business Plan • Technology Management • Taxation |
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Not possible:

- **Construction Management**
- **Economics (Principles of)**
- **Environmental Studies**
- **IT Business Management (it's Informatics)**
- **Microeconomics**
- **Process Management (it's Informatics)**

Quantitative Methods / Databases possible courses

- Algebra
 - Applied Mathematics
 - Linear Algebra
 - Analysis
 - Business Statistics
 - Calculus
 - Control Theory
 - Data Analysis
 - Database Systems
 - Database Interface Programming
 - Databases
 - Database Management System
 - Data Management
 - Distributed Databases
 - Differential Equations
 - Discrete Structure
 - Discrete Mathematics
 - Econometrics
 - Engineering Mathematics
 - Finite Math
 - Integral Calculus Elements of Probability and Statistics
 - Introduction to Databases
 - Introduction to Probability
 - Math 1
 - Math 2
 - Mathematical Foundations
 - Numerical Analysis
 - Numerical Calculations
 - Computer Based Numerical Methods
 - Numerical Methods and Programming
 - Numerical Techniques
 - Optimisation Estimation and Numerical Methods
 - Probability and Random Variables
 - Quantitative Methods
 - Quantitative Business Analysis
 - Regression analysis
 - Statistics
 - Stochastic
- Not possible:**
- Data Engineering (it's **Informatics**)
 - Data Mining (it's **Informatics**)
 - Data Structure (it's **Informatics**)
 - Data Structure and Algorithms (it's **Informatics**)
 - Data Transmission (it's **Informatics**)
 - Decision Support Systems (it's **Informatics**)
 - Demography
 - Research Approaches in Business
 - Scientific Research Methods

Information Systems / Computer Science possible courses

- Algorithm Design
 - Algorithms
 - Algorithms and Data Structure
 - Analytical Information System
 - Artificial Intelligence
 - Business Intelligence
 - Business Process Management
 - Business Process Modelling
 - Business Systems
 - C / C++ Programming
 - Collaborative Systems
 - Compiler Design
 - Computer Architecture
 - Computing Fundamentals
 - Computing Networks
 - Computational Biology
 - Computational Graphics
 - Computer Graphics
 - Computer Networks
 - Computer Organization and Systems
 - Computer Science Theory
 - Computer Communication
 - Advanced Communication LAB
 - Data Engineering
 - Data Mining
 - Data mining & Warehousing
 - Data Structure
 - Data Structures and Advanced Programming
 - Data Structure and Algorithms
 - Data Transmission
 - Data Warehousing
 - Decision Support Systems
 - Design and Analysis of Algorithms
 - Digital Signal Processing
 - Digital Communications
 - Digital Principles and Systems Design
 - Digital Systems
 - Distributed Systems
 - E-Commerce
 - Enterprise Resource Planning
 - Human-Computer Interaction (HCI)
 - Information Assurance and Security
 - Information Management
 - Information Technology
 - Internet Programming LAB
 - Intro. Computer Science
 - Intro. Information Systems
 - Introduction to SAP-ERP
 - IT Business Management
 - IT Security
 - Java Programming
 - Knowledge Based Systems
 - Machine Learning
 - Management Information Systems
 - Mobile Development
 - Microcontrollers
 - Microcomputer Applications
 - Managerial Technology
 - Numerical Computing
 - Object-oriented Programming
 - Object-Oriented Systems Design
 - Operation Systems
 - Parallel Programming
 - Principles of Computer System
 - Process Management
 - Electronic Processing of Firm Data
 - Programming Abstractions
 - Programming Languages
 - Programming Methodology
 - Python Programming
 - Simulation
 - Software Development
 - Software Engineering
 - Software Project
 - System modeling and simulation
 - System Analysis
 - System Analysis and Design
 - System Building
 - System Design
 - Telematik
 - Theory of Computation
 - Unternehmensmodellierung
 - UNIX Programming LAB
 - Web Development
- Not possible:**
- Business Communication
 - Discrete Structure it's **Maths**
 - Digital Design
 - Engineering Graphics