

# Module Overview B.Sc. B.Sc. Wirtschaftsingenieurwesen - technische Fachrichtung Materialwissenschaft - 8 Semesters

Degree Programme Guidelines as per 01.10.2022, Version 01.06.2024 (SB2024II)

The degree programme consists of 120 Credit Points (CP) in total:

**Mathematics:**

**Law and Economics (Mandatory Subject Area):**

**Materials Sciences (Mandatory and Elective Subject Area):**

**- including Lab Practicals:**

**Electives Law and Economics and Interdisciplinary Compulsory Elective Area:**

**Bachelor's Thesis:**

This leads to the *following* possible part-time semester course schedule:

20 CP ■  
 67 CP ■  
 72 CP ■  
 8 CP ■  
 9 CP ■  
 12 CP ■

**Language of Tuition:**  
**GERMAN**  
*Certificates required*



Full-time				Part-time				
1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester	7. Semester	8. Semester	
Mathematics I (8 CP)	Mathematics II (8 CP)	Mathematics III (4 CP)	Cost and Performance Accounting (4 CP)	Investment and Financing (4 CP)	Empirical Economic Research (4 CP)	Operations Research (4 CP)	Bachelor's Thesis (12 CP) <i>(optionally at the Faculty of Law and Economics or Mechanical and Process Engineering)</i>	
Bookkeeping and Accounting (5 CP)	Fundamentals of Software Development and Management (5 CP)	Statistics for Economics (4 CP)	Production and Supply Chain Management (4 P)	Macroeconomics (5 CP)		German and International Corporate Law (4 CP)		
Contract Law (5 CP)		Microeconomics (5 CP)	Marketing (4 CP)					
	Management of Value Networks (4 CP)	Specific catalogue or Studium Generale (3 - 6 CP)	Seminar for Bachelors (6 CP)		Specific catalogue or Studium Generale (3 - 6 CP)			
General Chemistry (5 CP)	Thermodynamics of Solid State Bodies (5 CP)	Real Crystals and their Properties (5 CP)	Mechanical Properties (6 CP)	Concepts in Materials Physics (6 CP)	Circular Materials (5 CP)	Elective Area (3 CP)		
Fundamentals of Materials Sciences (6 CP)	Physics (for Business Administration - Materials Scientists) (6 CP)	Characterisation Methods in Materials Science (3 CP)	Sustainability in Materials Production and Engineering (5 CP)			Structural Materials (6 CP)		Seminar Materials Science (for Business Administration - Materials Scientists) (2 CP)
		Basic Lab Materials Science I (4 CP)	Basic Lab Materials Science II (4 CP)					
		Elective Area (3 CP)						
Ø 30 CP	Ø 30 CP	Ø 30 CP	Ø 30 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP		Ø 15 CP