Materialwissenschaft (B.Sc.) - Effective 01 October 2017

The degree programm consists of 180 Credit Points (CP) in total:

Language of Tuition:
GERMAN
certificates required

Mandatory Subject Area:	**145 CP**
- including Lab Practical:	**21 CP**
Elective Subject Area:	**14 CP**
Studium Generale:	**6 CP**
Research/Thesis:	**15 CP**

The following **module overview** is an abbreviated, easy-to-read version of the **official course schedule** in the examination regulations, to be found in the Satzungsbeilagen of TU Darmstadt:

1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester
Materials Science I: Crystallography and Crystal Chemistry (5 CP)	Materials Science II: Thermodynamics of Solid State Bodies (4 CP)	Materials Science III: Real Crystals and their Properties (5 CP)	Materials Science IV: Mechanical Properties (6 CP)	Materials Science V: Diffusion and Transport in Solid State Bodies (5 CP)	Materials Science VII: Functional Properties of Condensed Matter (6 CP)
Mathematics for Civil Engineers I (8 CP)	Mathematics for Civil Engineers II (8 CP)	Mathematics for Civil Engineers III (8 CP)	Material Production and Processing (5 CP)	Materials Science VI: Crystal and electronic solid state structure (5 CP)	Structural Materials (6 CP)
Basic Lab I (3 CP)	Basic Lab II (3 CP)	Basic Lab III (3 CP)	Advanced Lab I (3 CP)	Advanced Lab II (3 CP)	Bachelor's Thesis and Colloquium (15 CP)
Physics I (5 CP)	Physics II (5 CP)	Technical Mechanics for Materials Scientists (6 CP)	Numerical Methods of Materials Science (3 CP)	Study Project (2 CP)	
Physics Lab I (3 CP)	Physics Lab II (3 CP)	Characterisation Methods in Materials Science (6 CP)	Introduction to Electrical Engineering (6 CP)	Physical Chemistry II (6 CP)	
General Chemistry (5 CP)	Physical Chemistry I (6 CP)	Materials Science Elective Subjects (14 CP)			
Introduction in Material Science (1 CP)			Non-technical-scientific Elective Subjects (6 CP)		

Study Programmes
www.tu-darmstadt.de/studieren

hobit – Information fair for pupils
www.hobit.de

TUDay – Info day for prospective students
www.tu-day.de

Online Self-Assessment
www.self-assessment.tu-darmstadt.de

Course Schedule
www.tucan.tu-darmstadt.de

Application and Admission for international students
(International Office)
www.tu-darmstadt.de/international

Zentrale Studienberatung und -orientierung ZSB
(Central Student Advisory and Orientation Office)

Karolinenplatz 5, 64289 Darmstadt
Gebäude S1 | 01
E-mail: info@zsb.tu-darmstadt.de

Opening hours: www.zsb.tu-darmstadt.de

Imprint

Publisher President of TU Darmstadt
Editorial office Zentrale Studienberatung und -orientierung ZSB

Design: DUBBEL SPATH, Darmstadt | Titelfoto: Gregor Schuster, Darmstadt

Materialwissenschaft
Bachelor of Science

Please fold here

Brief Description

The Bachelor of Science programme Materialwissenschaft builds bridges between natural and engineering sciences by focusing on research and development of construction and functional materials. Within a broad framework of scientific fundamentals, relevant engineering skills are included. In contrast to classic material- scientific courses of study, B.Sc. Materials Science in Darmstadt aims at developing a fundamental microscopic understanding of the characteristics of materials and their changeability beyond pure phenomenology.

www.mawi.tu-darmstadt.de

Admission

For information on application deadlines please refer to

www.tu-darmstadt.de/international