Module Overview B.Sc. Mathematics - Field of Study Mathematics (10 Semesters)

Degree Programm Guidelines as per 01.10.2018, Version 01.10.2018

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

Mandatory Area in Mathematics:	83 CP	Interdisciplinary Electives/	
Mathematical Seminar/Project:	5 CP	Studium Generale :	17-20 CP
Elective Subjects Area :	60-63 CP	‣ Mandatory Interdisciplinary Area:	9CP
‣ Additional Courses in		‣ Interdisciplinary Electives:	5-8 CP
Mathematics:	32-37 CP	‣ Studium Generale:	3-6 CP
‣ Minor Courses:	26-31 CP	Bachelor-Thesis:	12 CP

TECHNISCHE UNIVERSITÄT DARMSTADT

bili offered in English or German

This leads to the following *possible* semester course schedule:

Language of Tuition:
GERMAN
Certificates required

Vollzeit		Teilzeit		
1. Semester	**2. Semester**	**3. Semester**	**4. Semester**	**5. Semester**
Linear Algebra I [bili] (9 CP)	Linear Algebra II [bili] (9 CP)	Ordinary Differential Equations (5 CP)	Integration Theory (9 CP)	Introduction to Numerical Analysis (9 CP)
Analysis I [bili] (9 CP)	Analysis II [bili] (9 CP)	Complex Analysis (5 CP)	Introduction to Algebra (5 CP)	
Introduction to Programming I (3 CP)	Introduction to Programming II (3 CP)	Introductory Seminar [bili] (3 CP)		
	Interdisciplinary Electives**			
Studium Generale***				
Minor Courses				
30 CP	30 CP	15 CP	14 CP	16 CP

Teilzeit				
6. Semester	**7. Semester**	**8. Semester**	**9. Semester**	**10. Semester**
Introduction to Stochastics (9 CP)		Seminar[bili] *or* Project [bili] in Mathematics (5 CP)		Bachelor-Thesis (12 CP)
Algorithmic Discrete Mathematics (5 CP)	Additional Courses in Mathematics* (32 - 37 CP)			
Interdisciplinary Electives** (5 - 8 CP)				
Studium Generale*** (3 - 6 CP)				
Minor Courses Chemistry, Computer Science, Mechanics, Physics, Business Engineering (select one) *other* options upon request(26 - 31 CP)				
14 CP	16 CP	15 CP	15 CP	15 CP

* At least three core modules (algebra, analysis, geometry, logic, numerics, optimization and stochastics) must be taken (each 9 CP) as well as further courses in the range of 0 - 10 CP. Before registering for a course in this field for the first time, an exemplary study plan must be submitted to the examination board.

** A course of Mathematical General Knowledge must be taken.

*** Complete catalogue of all courses at the TU Darmstadt, with the exception of courses in Mathematics and the minor subject.