Module Overview B.Sc. Mathematics - Field of Study Mathematics (9 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 Mathematical Seminar/Project: 5 CP **Elective Subjects Area:** 60-63 CP

Additional Courses in Mathematics: 32-37 CP

Minor Courses: bili offered in English or German

26-31 CP

Interdisciplinary Electives/Studium Generale: 17-20 CP 9 CP

Mandatory Interdisciplinary Area:

Interdisciplinary Electives:

Studium Generale:

Bachelor-Thesis:



Language of Tuition: GERMAN

5-8 CP

3-6 CP

12 CP

Certificates required

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

1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester	7. Semester	8. Semester	9. 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)	Introduction to Stochastics (9 CP)	Seminar ^{bili} or Project ^{bili} in Mathematics (5 CP)		Bachelor-Thesis
Analysis I ^{bili} (9 CP)	Analysis II ^{bili} (9 CP)	Complex Analysis (5 CP)	Introduction to Algebra (5 CP)		Algorithmic Discrete Mathematics (5 CP)			(12 CP)
Introduction to Programming I (3 CP)	Introduction to Programming II (3 CP)	Introductory Seminar ^{bili} (3 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)						
21 CP	21 CP	18 CP	20 CP	20 CP	20 CP	20 CP	20 CP	20 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.