

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

Degree Programm Guidelines as per 01.10.2018, Version 01.10.2018

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

Mandatory Area in Mathematics:	91 CP	■	Interdisciplinary Electives/	
Mathematical Seminar/Project:	5 CP	■	Studium Generale:	17-20 CP
Elective Subjects Area:	52-55 CP		▸ Mandatory Interdisciplinary Area:	9 CP
▸ Additional Courses in Mathematics:	9-15 CP	■	▸ Interdisciplinary Electives:	5-8 CP
▸ Minor Courses in Economics:	25-31 CP	■	▸ Studium Generale:	3-6 CP
▸ Minor Courses in Computer Science:	15-21 CP	■	Bachelor-Thesis:	12 CP



TECHNISCHE
UNIVERSITÄT
DARMSTADT

^{bili} offered in English or German

Language of Tuition:
GERMAN
Certificates required

This leads to the following possible semester course schedule:

Vollzeit		Teilzeit		
1. Semester	2. Semester	3. Semester	4. Semester	5. Semester
Analysis I ^{bili} (9 CP)	Analysis II ^{bili} (9 CP)	Ordinary Differential Equations (5 CP)	Integration Theory (9 CP)	
Linear Algebra I ^{bili} (9 CP)	Lineare Algebra II ^{bili} (9 CP)	Introduction to Numerical Analysis (9 CP)	Algorithmic Discrete Mathematics (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 in Economics (25 - 31 CP)***				
Minor Courses in Computer Science (15 - 21 CP)****				
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)	Introduction to Optimisation (9 CP)		Probability Theory ^{bili} (9 CP)	Bachelor-Thesis (12 CP)
		Seminar ^{bili} or Project ^{bili} from Optimisation or Stochastics (5 CP)		
Additional Courses in Mathematics (9 - 15 CP)*				
Interdisciplinary Electives (5 - 8 CP)				
Studium Generale (3 - 6 CP)**				
Minor Courses in Economics (25 - 31 CP)***				
Minor Courses in Computer Science (15 - 21 CP)****				
14 CP	16 CP	15 CP	15 CP	15 CP

* Modules of Optimisation ^(opt) or Stochastics ^(sto) must be taken in the range of at least 5 credit points. Before registering for a module in this field for the first time, an exemplary study plan must be submitted to the examination board.

** Complete catalogue of all modules of the TU Darmstadt, except for courses of the Faculty of Mathematics and the minor subject.

*** Out of the Programms B.Sc. Business Information Systems, B.Sc. Business Administration/Industrial Engineering –specialising in Mechanical Engineering

**** Out of the Programm B.Sc. Computer Science