Module Overview B.Sc. Mathematics - Field of Study Mathematics with Economics (9 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	
Mathematical Seminar/Project:	5 CP	
Elective Subjects Area:	52-55 CP	
‣ Additional Courses in Mathematics:	9-15 CP	
‣ Minor Courses in Economics:	25-31 CP	
‣ Minor Courses in Computer Science:	15-21 CP	

Interdisciplinary Electives/Studium Generale	17-20 CP	
‣ Mandatory Interdisciplinary Area:	9 CP	
‣ Interdisciplinary Electives:	5-8 CP	
‣ Studium Generale:	3-6 CP	
Bachelor-Thesis:	12 CP	

bili offered in English or German

Language of Tuition:
GERMAN
Certificates required

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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)	Lineare 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)	Introduction to Optimisation (9 CP)		Bachelor-Thesis (12 CP)
Analysis I bili (9 CP)	Analysis II bili (9 CP)				Algorithmic Discrete Mathematics (5 CP)	Probability Theory bili (9 CP)		
Introduction to Programming I (3 CP)	Introduction to Programming II (3 CP)	Introductionary Seminar bili (3 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)****						
21 CP	21 CP	18 CP	20 CP	20 CP	20 CP	20 CP	20 CP	20 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