

# Mathematics (M.Sc.) - Effective 01 June 2024 - Field of Study: Mathematics

The degree programme consists of 120 Credit Points (CP) in total:

Language of Tuition:  
ENGLISH  
certificates required

- Advanced Courses in Mathematics (Mandatory Subject Area)** 46 CP
- Elective Subject Area:** 31-34 CP
- Interdisciplinary Elective Area:** 5-8 CP
- Research/Thesis:** 35 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:

1 <sup>st</sup> semester	2 <sup>nd</sup> semester	3 <sup>rd</sup> semester	4 <sup>th</sup> semester
<b>Advanced Courses in Mathematics</b> (choose two modules with 18 CP each)  Areas of research are: Algebra, Analysis, Geometry and Approximation, Mathematical Logic, Numerical Analysis, Optimisation, Stochastics			<b>Master Thesis</b> (30 CP)
		<b>Seminars or Projects in Mathematics</b> (choose two with 5 CP each)	
		<b>Research Project Preparation</b> (5 CP)	
<b>Additional Courses in Mathematics (14-25 CP)</b>			
<b>Courses in a Minor or Additional Courses in Mathematics (9-20 CP)</b>			
<b>Interdisciplinary Courses (5-8 CP), consisting of:</b> Interdisciplinary Electives (0-3 CP); Studium Generale (5-8 CP)			

# Mathematics (M.Sc.) - Effective 01 June 2024 - Field of Study: Business Mathematics

The degree programme consists of 120 Credit Points (CP) in total:

<b>Advanced Course in Mathematics (Mandatory Subject Area)</b>	<b>23 CP</b>	<span style="color: blue;">■</span>
<b>Elective Subject Area:</b>	<b>54-57 CP</b>	<span style="color: green;">■</span>
<b>Interdisciplinary Elective Area:</b>	<b>5-8 CP</b>	<span style="color: pink;">■</span>
<b>Research/Thesis:</b>	<b>35 CP</b>	<span style="color: orange;">■</span>

Language of Tuition:  
ENGLISH  
certificates required

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:

1 <sup>st</sup> semester	2 <sup>nd</sup> semester	3 <sup>rd</sup> semester	4 <sup>th</sup> semester
<b>Advanced Course in Mathematics (18 CP)</b> Areas of research are: Optimization or Stochastics			<b>Master Thesis (30 CP)</b>
		<b>Seminar or Project in Mathematics (5 CP)</b>	
		<b>Research Project Preparation (5 CP)</b>	
<b>Additional Courses in Mathematics (18-28 CP)</b>			
<b>Non-Mathematical specialization Economics (22-32 CP)</b>			
<b>Minor intermediate in Business and Computer Science (7-17 CP)</b>			
<b>Interdisciplinary Courses (5-8 CP), consisting of:                      Interdisciplinary Electives (0-3 CP); Studium Generale (5-8 CP)</b>			

# Mathematics (M.Sc.) - Effective 01 June 2024 - Field of Study: Mathematics in Data Science

The degree programme consists of 120 Credit Points (CP) in total:

Language of Tuition:  
ENGLISH  
certificates required

**Advanced Courses in Mathematics (Mandatory Subject Area):**  
**Elective Subject Area:**  
**Interdisciplinary Elective Area:**  
**Research/Thesis:**

46 CP  
 31-34 CP  
 5-8 CP  
 35 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:

1 <sup>st</sup> semester	2 <sup>nd</sup> semester	3 <sup>rd</sup> semester	4 <sup>th</sup> semester	
<p><b>Advanced Courses in Mathematics</b>                      (chose two modules with 18 CP each)</p> <p>Areas of research are:                      Analysis, Numerical Analysis, Optimization, Stochastics                      (Data Science)</p>		<p><b>Master Thesis</b>                      (30 CP)</p>		
				<p>Seminars or Projects                      in Mathematics                      (chose two with 5 CP each)</p>
				<p>Research Project Preparation                      (5 CP)</p>
<p>Additional Courses in Mathematics (9-14 CP)</p>				
<p>Courses in Computer Science (20-25 CP)                      (Data Science)</p>				
<p>Interdisciplinary Courses (5-8 CP), consisting of:                      Interdisciplinary Electives (0-3 CP); Studium Generale (5-8 CP)</p>				

# Mathematics (M.Sc.) - Effective 01 June 2024 - Field of Study: Mathematics Interdisciplinary

The degree programme consists of 120 Credit Points (CP) in total:

**Advanced Course in Mathematics (Mandatory Subject Area):**  
**Elective Subject Area:**  
**Interdisciplinary Elective Area:**  
**Research/Thesis:**

23 CP ■  
 54-57 CP ■  
 5-8 CP ■  
 35 CP ■

Language of Tuition:  
 ENGLISH  
 certificates required

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:

1 <sup>st</sup> semester	2 <sup>nd</sup> semester	3 <sup>rd</sup> semester	4 <sup>th</sup> semester
<b>Advanced Course in Mathematics (18 CP)</b> Areas of research are: Algebra, Analysis, Geometry and Approximation, Logic, Numerical Analysis, Optimisation or Stochastics			<b>Master Thesis (30 CP)</b>
		Seminar or Project in Mathematics (5 CP)	
		Research Project Preparation (5 CP)	
Additional Courses in Mathematics (18-28 CP)			
Non-Mathematical Advanced Course (22-32 CP)			
Courses in a Minor (7-17 CP)			
Interdisciplinary Courses (5-8 CP), consisting of: Interdisciplinary Electives (0-3 CP); Studium Generale (5-8 CP)			

Study Programmes

[www.tu-darmstadt.de/studieren](http://www.tu-darmstadt.de/studieren)

Course Schedule

[www.tucan.tu-darmstadt.de](http://www.tucan.tu-darmstadt.de)

Application and Admission for international students  
(International Office)

[www.tu-darmstadt.de/international](http://www.tu-darmstadt.de/international)

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# Mathematics Master of Science



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## Brief Description

The research-oriented Master of Science programme  
Mathematics is offered in four fields of study: Mathematics;  
Business Mathematics; Mathematics in Data Science;  
Interdisciplinary Mathematics. Mathematical areas of  
specialisation are: Algebra; Analysis; Geometry and  
Approximation; Mathematical Logic; Numerical Analysis;  
Optimization; Stochastics. Electives, Interdisciplinary Courses and  
General Studies complete the programme's profile and allow  
individual shaping of your research focus.

[www.mathematik.tu-darmstadt.de](http://www.mathematik.tu-darmstadt.de)

## Admission

For information on application deadlines please refer to

[www.tu-darmstadt.de/bewerbung](http://www.tu-darmstadt.de/bewerbung)

[www.tu-darmstadt.de/application](http://www.tu-darmstadt.de/application)