

**Second Regulations Amending
the Examination Regulations for the
Master's Programme in Mathematics
at the University of Münster
of 11 February 2020
of 1 June 2023**

This is a translation of the original German text and is intended for your information only. Under German law, only the official German version of the “*Zweite Ordnung zur Änderung der Prüfungsordnung für den Masterstudiengang Mathematics an der Westfälischen Wilhelms-Universität Münster vom 11. Februar 2020 vom 01.06.2023*” is legally binding. It was published in the *Amtliche Bekanntmachungen* (Official Announcements – AB Uni) on 21 June 2023, pp. 1832–1837.

On the basis of § 2 (4) and § 64 (1) of the Higher Education Act of the Federal State of North Rhine-Westphalia [*Hochschulgesetz – HG*] as amended by the Act on the Future of Higher Education [*Hochschulzukunftsgesetz – HZG NRW*] of 16 September 2014 (GV. NRW. p. 547), as amended most recently by the Act of 30 June 2022 (GV. NRW. p. 780b), the University of Münster has issued the following regulations:

Article I

The Examination Regulations (*Prüfungsordnung*) for the Master's Programme in Mathematics at the University of Münster of 11 February 2020 (AB Uni 04/2020, p. 153 ff.), as amended most recently by the First Amending Regulations of 16 March 2021 (AB Uni 25/2021, p. 2195 ff.), are amended as follows:

1. § 8 contains the following new paragraph 4a:

(4a) In the mandatory module (*Pflichtmodul*) Ma-E “Specialisation Supplement and Research Skills”, students may, in accordance with the module description, complete up to two different degree-relevant examinations for the first part. If the student successfully completes two degree-relevant examinations in the first part, the degree-relevant examination with the highest grade counts towards the module grade. Any coursework or examinations completed in addition are to be recorded on the Transcript of Records.

2. § 11 contains the following new paragraph 9:

(9) The types of examinations mentioned in § 11 (2) can also be administered and assessed electronically using software-aided technology or in the form of electronic communication; the form of examination must be announced by the instructor in due form and in good time at the beginning of the course. Should an examination resemble an oral examination in character, the rules pertaining to oral examinations are to be applied accordingly, provided that the student concerned and the participating examiner(s) and assessor give their written consent to the form

of examination set out in sentence 1; in all other cases, the rules pertaining to written examinations apply accordingly.

3. § 17 contains the following new paragraph 5a:

(5a) Students are granted a total of three attempts to pass the degree-relevant examination in the mandatory module Ma-E “Specialisation Supplement and Research Skills”. Students are permitted to retake an examination in a different course. § 17 (4) sentences 3 to 8 apply accordingly, with the proviso that the additional fourth attempt at an examination can also be used for another degree-relevant examination in the module Ma-E “Specialisation Supplement and Research Skills”.

4. The module description for the module Ma-E “Specialisation Supplement and Research Skills” is amended as follows:

Ma-E Specialisation Supplement and Research Skills

Degree programme	Master of Science Mathematics
Module	Specialisation Supplement and Research Skills
Module number	Ma-E

1	Basic data	
	Programme semester	3
	Credits (CP)	12
	Workload (h) in total	360
	Module duration	1 semester
	Module status (M/EM)	M

2	Profile
Aim of the module / Integration in the curriculum	
This module will prepare students intensively for working on their master’s thesis.	
Teaching content	
The courses deal with current topics of the research areas available at the Faculty.	
Learning outcomes	
The module “Specialisation Supplement and Research Skills” directly prepares students for working on a master’s thesis in the chosen area of specialisation. To this end, students deepen their knowledge in one of the subjects they have chosen in the specialisation modules. They will be enabled to acquire current research work in this field and present it in oral and written form. They are able to apply very complex methods and results from this field of research creatively and are familiar with the important open questions in this field.	

3 Structure						
Module components						
No.	Course category	Course form	Course	Status (M/EM)	Workload (h)	
					Attendance time (h)/SWS	Self study (h)
1	Lecture	Lecture	Lecture 1	EM	60 (4 SWS)	120
2	Seminar	Seminar	Seminar 1	EM	30 (2 SWS)	150
3	Course	Course	Reading Course 1	EM	30 (2 SWS)	150
4	Lecture	Lecture	Lecture 2	EM	60 (4 SWS)	120
5	Seminar	Seminar	Seminar 2	EM	30 (2 SWS)	150
6	Course	Course	Reading Course 2	EM	30 (2 SWS)	150
7	Seminar	Graduate Seminar or Privatissimum	Graduate Seminar or Privatissimum	M	30 (2 SWS)	150
Elective options within the module			<p>In all mathematical fields of research in which specialisation modules are offered, the Faculty also offers corresponding advanced lectures, seminars or reading classes, provided that there is a need for them.</p> <p>In the first part of the module, at least one of the following options must be completed. Up to two options may be completed.</p> <div style="border: 1px solid black; padding: 5px;"> <ul style="list-style-type: none"> (1) a lecture (where appropriate with integrated tutorial) comprising 4 SWS, i.e. component no. 1 (2) a seminar, i.e. component no. 2 (3) a reading course, i.e. component no. 3 (4) a lecture (where appropriate with integrated tutorial) comprising 4 SWS, i.e. component no. 4 (5) a seminar, i.e. component no. 5 (6) a reading course, i.e. component no. 6 </div> <p>If the student successfully completes two degree-relevant examinations in the first part, according to §8 (4a), the degree-relevant examination with the highest grade counts towards the module grade.</p> <p>In the second part, students will either attend an advanced research seminar in the chosen research area or be prepared for the topic of the master's thesis in regular consultation hours with a lecturer.</p> <p>With the lecturer who is to supervise his/her master's thesis, each student must agree in writing on the selection of the courses he/she intends to take. This agreement can also take place in two stages, usually first for the elective mandatory course within this module and at a later date for the mandatory course within this module. The lecturers involved in each stage of the agreement process may differ. The confirmation that the selected courses together with the courses of a</p>			

	specialisation module can serve the preparation of a master's thesis has to be submitted to the Examinations Office.
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4	Examination structure
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Degree-relevant examination(s)					
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No.	FME/MCE	Type	Duration / Scope	Connection to course no. if applicable	Weight in the module grade
1	FME	Oral examination	20–30 minutes	1	100%
2	FME	Seminar presentation	usually 60–90 minutes	2	100%
3	FME	Presentation or oral examination. The type of the degree-relevant examination will be announced by the lecturer (or examiner) in good time and in a suitable manner.	usually 60–90 minutes (Presentation) or 20–30 minutes (oral examination)	3	100%
4	FME	Oral examination	20–30 minutes	4	100%
5	FME	Seminar presentation	usually 60–90 minutes	5	100%
6	FME	Presentation or oral examination. The type of the degree-relevant examination will be announced by the lecturer (or examiner) in good time and in a suitable manner.	usually 60–90 minutes (Presentation) or 20–30 minutes (oral examination)	6	100%

Weight of the module grade for the final overall grade	8%
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Required coursework				
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No.	Type	Duration / Scope	Connection to course no. if applicable	
	none			

5	Requirements
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Module-related requirements for participation	No formal prerequisites for participation. However, see box 9 (“Miscellaneous”).
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Awarding credits	Academic credit is awarded upon completion of the entire module, i.e. when students have proven that they have achieved the learning outcomes in their entirety as provided by the module.
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Rules on course attendance	none
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6 CP allocation		
Participation	Course no. 1	2 CP
	Course no. 2	1 CP
	Course no. 3	1 CP
	Course no. 4	2 CP
	Course no. 5	1 CP
	Course no. 6	1 CP
	Course no. 7	6 CP
Degree-relevant examination(s)	No. 1	4 CP
	No. 2	5 CP
	No. 3	5 CP
	No. 4	4 CP
	No. 5	5 CP
	No. 6	5 CP
Required coursework	none	
Total CP		12 CP

7 Module administration	
Frequency	every semester
Module representative	The list of current module representatives can be accessed at go.wwu.de/mscmathematik-my .
Responsible faculty	Faculty of Mathematics and Computer Science (FB 10)

8 Recognition	
Usability in other degree programmes	none

9 Miscellaneous	
	The courses should be based on a course from a specialisation module. In some cases, it may be appropriate to attend less advanced courses as a supplement.

Article II

Transitional Provisions

These Regulations (in their original German version) enter into force on the day following their publication in the *Amtliche Bekanntmachungen* (Official Announcements – AB Uni) of the University of Münster. They apply to all students who are enrolled in the Master’s programme in Mathematics (Master of Science in Mathematics) in or after the winter semester of 2023/24. From the winter semester of 2023/24 onwards, the Regulations also apply to all students who were enrolled in the Master’s programme in Mathematics before the winter semester of 2023/24 and who are studying on the basis of the Examination Regulations for the Master’s programme in Mathematics of 11 February 2020.

Glossary of English-German translations

Examination Regulations	<i>Prüfungsordnung</i>
faculty board	<i>Fachbereichsrat</i>
mandatory module	<i>Pflichtmodul</i>

Issued (in the original German version) upon the resolution of the faculty board (*Fachbereichsrat*) of the Faculty of Mathematics and Computer Science (FB 10) of the University of Münster on 10 May 2023. The above Regulations are hereby announced.

Please note that in accordance with § 12 (5) of the Higher Education Act of the Federal State of North Rhine-Westphalia [*Hochschulgesetz* – HG NRW], violations of procedural or formal requirements of the University’s regulations or other legal provisions pertaining to university autonomy can no longer be asserted more than one year after this announcement, unless

1. these Regulations were not properly published,
2. the Rectorate previously raised an objection to the resolution passed by the deciding committee,
3. the University had already been given notice of a formal or procedural defect and had been informed of the legal provision that has been violated and of the fact giving rise to the defect, or
4. the legal consequence of a deadline for violation notifications was not included in the public announcement of the Regulations.

Münster, 1 June 2023

The Rector

Professor Dr. Johannes Wessels

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Translation of the module description: Fachbereich 10, University of Münster, 2025