

## Annex SFB

### Studienfachbeschreibung (subject description, SFB) for the subject Didactics in Mathematics (Middle School) as Didaktikfach with the degree "Erste Staatsprüfung für das Lehramt für Sonderpädagogik"

Responsible: Institute of Mathematics

Examination regulations version: 2013

Abbreviations used: Course types: **E** = field trip, **K** = colloquium, **O** = conversatorium, **P** = placement/lab course, **R** = project, **S** = seminar, **T** = tutorial, **Ü** = exercise, **V** = lecture

Term: **SS** = summer semester, **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: **(L)ASPO** = general academic and examination regulations (for teaching-degree programmes), **FSB** = subject-specific provisions, **SFB** = list of modules

Other: **A** = thesis, **LV** = course(s), **PL** = assessment(s), **TN** = participants, **VL** = prerequisite(s)

Conventions for the modules in this SFB: Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not creditable for bonus.

Information on assessment procedures: Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.

Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.

In accordance with the general regulations governing the degree subject described in this module catalogue:

**LASPO2009**

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

**25-Sep-2014 (2014-53)**

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

Every module will be described using the following form:

Abbreviation	<b>Module title</b>						
	ECTS		Duration	(in semesters)	Method of grading		Module level
	Courses		To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y				
	Method of assessment						
	Only after successful completion of		if applicable				
	Other prerequisites		if applicable				
	Participants and allocation of places		if applicable				
	Additional information		if applicable				
	Referred to in LPO I		if applicable (examination regulations for teaching-degree programmes)				

**Compulsory Courses (20 ECTS credits)**

Successful completion of modules worth 20 ECTS credits in each subject selected as Didaktikfach (subject studied with a focus on teaching methodology) is a prerequisite for admission to the Erste Staatsprüfung (First State Examination) in the subject Didaktiken einer Fächergruppe der Mittelschule (Didactics of a Group of Subjects of Mittelschule).

10-M-MH1-092-mo1	<b>Mathematics in German Hauptschule (Arithmetic and Algebra)</b>							
	ECTS	10	Duration	2 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		This module comprises 3 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"> <li>10-M-MH1-P-092: M (no information on SWS (weekly contact hours) and course language available)</li> <li>10-M-MH1-1-092: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> <li>10-M-MH1-2-092: V + Ü (no information on SWS (weekly contact hours) and course language available)</li> </ul>					
	Method of assessment		<p>Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.</p> <p><b>Assessment in module component 10-M-MH1-P-092:</b> Mathematics in German Hauptschule (Arithmetic and Algebra)</p> <ul style="list-style-type: none"> <li>1 ECTS, Method of grading: numerical grade</li> <li>written examination (approx. 120 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 15 minutes) or an oral examination in groups (groups of 2: approx. 20 minutes, groups of 3: approx. 30 minutes) or by a written and/or multi-media portfolio (as announced)</li> <li>Only after successful completion of module components: Successful completion of the two module components 10-M-MH1-1 and 10-M-MH1-2 is a prerequisite for participation in module component 10-M-MH1-P.</li> </ul> <p><b>Assessment in module component 10-M-MH1-1-092:</b> Mathematics in German Hauptschule (Arithmetic) Mathematics in German Hauptschule (Arithmetic)</p> <ul style="list-style-type: none"> <li>5 ECTS, Method of grading: (not) successfully completed</li> <li>exercises: At the beginning of the course, the lecturer will specify the type and scope of exercises to be successfully completed over the course of the semester for the module component to be considered successfully completed.</li> </ul> <p><b>Assessment in module component 10-M-MH1-2-092:</b> Mathematics in German Hauptschule (Algebra) Mathematics in German Hauptschule (Algebra)</p> <ul style="list-style-type: none"> <li>4 ECTS, Method of grading: (not) successfully completed</li> <li>exercises: At the beginning of the course, the lecturer will specify the type and scope of exercises to be successfully completed over the course of the semester for the module component to be considered successfully completed.</li> </ul>					
	Referred to in LPO I		§ 38 (1) 1. Didaktik der Hauptschule Mathematik § 38 (1) 1. Didaktik der Mittelschule Mathematik					

10-M-MH2-092-mo1	Mathematics in German Hauptschule (Geometry, use-oriented teaching and Stochastics)							
	ECTS	10	Duration	2 semester	Method of grading	numerical grade	Modul level	undergraduate
	Courses		This module comprises 3 module components. Information on courses will be listed separately for each module component. <ul style="list-style-type: none"><li>10-M-MH2-P-092: M (no information on SWS (weekly contact hours) and course language available)</li><li>10-M-MH2-1-092: V + Ü (no information on SWS (weekly contact hours) and course language available)</li><li>10-M-MH2-2-092: V + Ü (no information on SWS (weekly contact hours) and course language available)</li></ul>					
	Method of assessment		Assessment in this module comprises the assessments in the individual module components as specified below. Unless stated otherwise, successful completion of the module will require successful completion of all individual assessments.  <b>Assessment in module component 10-M-MH2-P-092:</b> Mathematics in German Hauptschule (Geometry, use-oriented teaching and Stochastics) <ul style="list-style-type: none"><li>1 ECTS, Method of grading: numerical grade</li><li>written examination (approx. 120 minutes); if announced by the lecturer, the written examination can be replaced by an oral examination of one candidate each (approx. 15 minutes) or an oral examination in groups (groups of 2: approx. 20 minutes, groups of 3: approx. 30 minutes) or by a written and/or multi-media portfolio (as announced)</li><li>Only after successful completion of module components: Successful completion of the two module components 10-M-MH2-1 and 10-M-MH2-2 is a prerequisite for participation in module component 10-M-MH2-P.</li></ul> <b>Assessment in module component 10-M-MH2-1-092:</b> Mathematics in German Hauptschule (Geometry) Mathematics in German Hauptschule (Geometry) <ul style="list-style-type: none"><li>5 ECTS, Method of grading: (not) successfully completed</li><li>exercises: At the beginning of the course, the lecturer will specify the type and scope of exercises to be successfully completed over the course of the semester for the module component to be considered successfully completed.</li></ul> <b>Assessment in module component 10-M-MH2-2-092:</b> Mathematics in German Hauptschule (Exam in Geometry, used-oriented teaching and Stochastics) Mathematics in German Hauptschule (Exam in Geometry, used-oriented teaching and Stochastics) <ul style="list-style-type: none"><li>4 ECTS, Method of grading: (not) successfully completed</li><li>exercises: At the beginning of the course, the lecturer will specify the type and scope of exercises to be successfully completed over the course of the semester for the module component to be considered successfully completed.</li></ul>					
	Referred to in LPO I		§ 38 (1) 1. Didaktik der Hauptschule Mathematik § 38 (1) 1. Didaktik der Mittelschule Mathematik					
<b>Freier Bereich (general as well as subject-specific electives) (0-15 ECTS credits)</b> Teaching degree students must take modules worth a total of 15 ECTS credits in the area Freier Bereich (general as well as subject-specific electives) (Section 9 LASPO (general academic and examination regulations for teaching-degree programmes)). To achieve the required number of ECTS credits, students may take any modules from the areas below. Freier Bereich -- interdisciplinary: The interdisciplinary additional offer for a teaching degree can be found in the respective Annex "Ergänzende Bestimmungen für den "Freien Bereich" im Rahmen des Studiums für ein Lehramt".								
10-M-DCMU-092-mo1	Computers in Mathematical Teaching							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses		V (no information on SWS (weekly contact hours) and course language available)					
	Method of assessment		project (type and expenditure of time to be specified by the lecturer at the beginning of the course) Assessment offered: every two years, summer semester					

10-M-DM- HS-092-m01	<b>Methodology of Teaching in Mathematics (German Hauptschule)</b>							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) talk (approx. 45 minutes) or b) project (approx. 5 to 15 pages) or c) portfolio (approx. 5 to 15 pages)						
10-M-DV- HS-092-m01	<b>Advanced Didactics of Mathematics (German Hauptschule)</b>							
	ECTS	2	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	S (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	a) talk (approx. 60 minutes) or b) assignment to be completed at home (approx. 50 to 60 hours)						
	Referred to in LPO I	§ 51 (1) 4. Mathematik Fachdidaktik						
10-M-DV- HB-092-m01	<b>E-Learning and Blended Learning in Mathematics at school</b>							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	web-based project assignments and tests (length/expenditure of time to be announced at the beginning of the course)						
	other prerequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew. Courses offered online by Virtuelle Hochschule Bayern (vhb) in the field of mathematics are always incorporated into a module with an exercise. The respective modules can be identified by the word virtuell (online) added in brackets. Registration for the exercise must always be made via SB@Home at the beginning of the course. This registration for the exercise will be considered a declaration of will to seek admission to assessment. If the exercise was successfully completed, the lecturer will put the registration for assessment into effect at the end of the course.						
10-M-VHBA- ri-092-m01	<b>Basics in Arithmetics (virtual course)</b>							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	web-based project assignments and tests (length/expenditure of time to be announced at the beginning of the course)						
	other prerequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew. Courses offered online by Virtuelle Hochschule Bayern (vhb) in the field of mathematics are always incorporated into a module with an exercise. The respective modules can be identified by the word virtuell (online) added in brackets. Registration for the exercise must always be made via SB@Home at the beginning of the course. This registration for the exercise will be considered a declaration of will to seek admission to assessment. If the exercise was successfully completed, the lecturer will put the registration for assessment into effect at the end of the course.						

10-M-VHBGeo-092-m01	<b>Basics in School Geometry (virtual course)</b>							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	web-based project assignments and tests (length/expenditure of time to be announced at the beginning of the course)						
	other prerequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew. Courses offered online by Virtuelle Hochschule Bayern (vhb) in the field of mathematics are always incorporated into a module with an exercise. The respective modules can be identified by the word virtuell (online) added in brackets. Registration for the exercise must always be made via SB@Home at the beginning of the course. This registration for the exercise will be considered a declaration of will to seek admission to assessment. If the exercise was successfully completed, the lecturer will put the registration for assessment into effect at the end of the course.						
10-M-VH-BSto-092-m01	<b>Stochastics in Sekundarstufe I (virtual course)</b>							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	web-based project assignments and tests (length/expenditure of time to be announced at the beginning of the course)						
	other prerequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew. Courses offered online by Virtuelle Hochschule Bayern (vhb) in the field of mathematics are always incorporated into a module with an exercise. The respective modules can be identified by the word virtuell (online) added in brackets. Registration for the exercise must always be made via SB@Home at the beginning of the course. This registration for the exercise will be considered a declaration of will to seek admission to assessment. If the exercise was successfully completed, the lecturer will put the registration for assessment into effect at the end of the course.						
10-M-VHBM10-092-m01	<b>Mathematics in Class 10 (virtual course)</b>							
	ECTS	3	Duration	1 semester	Method of grading	(not) successfully completed	Modul level	undergraduate
	Courses	Ü (no information on SWS (weekly contact hours) and course language available)						
	Method of assessment	web-based project assignments and tests (length/expenditure of time to be announced at the beginning of the course)						
	other prerequisites	Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew. Courses offered online by Virtuelle Hochschule Bayern (vhb) in the field of mathematics are always incorporated into a module with an exercise. The respective modules can be identified by the word virtuell (online) added in brackets. Registration for the exercise must always be made via SB@Home at the beginning of the course. This registration for the exercise will be considered a declaration of will to seek admission to assessment. If the exercise was successfully completed, the lecturer will put the registration for assessment into effect at the end of the course.						
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**Thesis (10 ECTS credits)**

Preparation of a written Hausarbeit (thesis) in accordance with the provisions of Section 29 LPO I (examination regulations for teaching-degree programmes) is a prerequisite for teaching degree students to be admitted to the Erste Staatsprüfung (First State Examination). In accordance with the provisions of Section 29 LPO I, students studying for a teaching degree Mittelschule may write this thesis in the subject Didaktik einer Fächergruppe der Mittelschule (Didactics of a Group of Subjects of Mittelschule), in the subject they selected as Unterrichtsfach (subject studied with a focus on the scientific discipline) or in the subject Erziehungswissenschaften (Educational Science). Pursuant to Section 29 Subsection 1 Sentence 2 LPO I, students may also choose to write an interdisciplinary thesis.