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Transitional Regulations for the Introduction of the New Study and Examination Regulations in Winter Semester 2026/27

The following transitional regulations apply in connection with the introduction of the new Study and Examination Regulations for the degree programmes offered by the Department of Mathematics and the associated changes to the course offerings.

Credit Transfer when Changing to the New Study and Examination Regulations

When transferring to the new Study and Examination Regulations in the Bachelor's degree programmes, previously completed achievements will be recognised in accordance with the table below. Where grades are calculated from partial achievements that are either recognised or still have to be completed, the corresponding weightings used in the grade calculation are indicated. These weightings are always based on the distribution of the ECTS credits. Only modules that have been changed or transferred into new modules are listed. For the degree programmes M.Ed. Erweiterungsfach and M.Ed. Quereinstieg, credit transfer follows the same rules as for the B.Ed. programme, since the corresponding modules are taken from that degree programme.

Completed Modules		
Degree Programme	**Completed Achievement**	**Recognised as**
B.Ed.	Module Foundations of Mathematics	Module Foundations of Mathematics The submodule Exploring Mathematics does not have to be completed retrospectively.
B.Ed.	Submodule Algebraic Structures	Submodule Algebraic Structures
	Module Algebra	Submodule Introduction to Galois Theory
	Module Geometry	Submodule Introduction to Geometry
		Within the module Compulsory Intermediate Modules Algebra and Geometry, only the outstanding exercise certificates and a single oral examination covering the missing submodules must still be completed. Each submodule contributes with weight 1 to the module grade.

Degree Programme	Completed Achievement	Recognised as
B.Ed.	Module Numerical Mathematics	Submodule Introduction to Numerical Mathematics
	Submodule Mathematical Software	Submodule Mathematical Software
		If the module Numerical Mathematics is recognised, its original module grade is transferred.
B.Sc.	Module Analysis + Module Linear Algebra	Module Foundations of Mathematics (grade weighting 2:1) + Module Elements of Linear Algebra (grade of the module Linear Algebra)
B.Sc.	Module Analysis	Within the module Foundations of Mathematics only an oral examination on the submodule Linear Algebra 1 still has to be completed; grade weighting 2:1 (Analysis : Linear Algebra).
B.Sc.	Module Linear Algebra	Within the module Foundations of Mathematics only an oral examination on the submodules Analysis 1 and Analysis 2 remains to be completed; regarding the exercise certificates see the table below. Grade weighting 1:2 (Linear Algebra : Analysis). The module Elements of Linear Algebra is regarded as completed; the grade of the module Linear Algebra is transferred.
B.Sc.	Module Measure and Integration Theory + Module Introduction to Complex Analysis and ODE	Module Compulsory Intermediate Modules Analysis
B.Sc.	Module Measure and Integration Theory	Within the module Compulsory Intermediate Modules Analysis only the exercise certificates for Introduction to Complex Analysis and Introduction to ODE, together with a single oral examination covering these two parts, still have to be completed; grade weighting 1:1.
B.Sc.	Module Introduction to Complex Analysis and ODE	Within the module Compulsory Intermediate Modules Analysis only the exercise certificates for Measure and Integration Theory and Integration on Submanifolds of $\mathbb{R}^n$, together with a single oral examination covering these two parts, still have to be completed; grade weighting 1:1.
B.Sc.	Module Algebra	Module Algebra
B.Sc.	Module Numerical Mathematics	Module Numerical Mathematics

Course Work (Exercise Certificates)		
Degree Programme	**Completed Course Work**	**Recognised as**
B.Ed. + B.Sc.	Exercise certificate Analysis 1 and/or Linear Algebra 1	Exercise certificate Foundations of Mathematics 1
B.Ed. + B.Sc.	Exercise certificate Analysis 2	Exercise certificate Foundations of Mathematics 2
B.Ed. + B.Sc.	Exercise certificate Stochastics	Exercise certificate Stochastics
B.Ed.	Exercise certificate Algebraic Structures	Exercise certificate Algebraic Structures
B.Ed.	Exercise certificate Algebra	Exercise certificate Introduction to Galois Theory
B.Ed.	Exercise certificate Geometry	Exercise certificate Introduction to Geometry
B.Ed.	Exercise certificate Numerical Mathematics	Exercise certificate Introduction to Numerical Mathematics
B.Ed.	Practical certificate Mathematical Software	Practical certificate Mathematical Software
B.Sc.	Exercise certificate Linear Algebra 2	Both exercise certificates of the module Elements of Linear Algebra
B.Sc.	Exercise certificate Algebra	Both exercise certificates of the module Algebra
B.Sc.	Exercise certificate Numerical Mathematics	Both exercise certificates of the module Numerical Mathematics
B.Sc.	Exercise certificate Measure and Integration Theory	Exercise certificate Measure and Integration Theory + exercise certificate Integration on Submanifolds of $\mathbb{R}^n$
B.Sc.	Exercise certificate Introduction to Complex Analysis and ODE	Exercise certificate Introduction to Complex Analysis + exercise certificate Introduction to ODE

Special Provision for the M.Ed. in Teaching at Gymnasium

The 2018 Study and Examination Regulations for the M.Ed. in Teaching at Gymnasium prescribe the module *Introduction to Complex Analysis and ODE* as a compulsory module, and this remains unchanged for all students completing the degree programme under these Study and Examination Regulations. In the new 2026 Study and Examination Regulations, this module is replaced by a second compulsory module with choice, *Advanced Topics in Mathematics 2*.

From Winter Semester 2026/27 onwards, *Introduction to Complex Analysis* and *Introduction to ODE* form part of the B.Ed. in Teaching at Gymnasium. It is, however, expected that during the coming semesters a considerable number of students will still complete the B.Ed. under the 2018 Study and Examination Regulations and will then begin the M.Ed. under the new 2026 Study and Examination Regulations. Likewise, students who are already enrolled in the M.Ed. may decide to transfer to the new Study and Examination Regulations. In both cases, the module *Introduction to Complex Analysis and ODE* is **no longer** a compulsory module, and the associated courses do not have to be taken. Since the contents of this module form part of the national curricular standards, we nevertheless strongly recommend that all students who have not already taken *Introduction to Complex Analysis* and/or *Introduction to ODE* during their B.Ed. studies should take these courses as part of their M.Ed. and include them within one of the modules *Advanced Topics in Mathematics 1 / 2*.

Changes to Compulsory Courses from Winter Semester 2026/27 Onwards

As a result of the new Study and Examination Regulations, some four-hour lecture courses will be replaced by two separate two-hour lecture courses. The following tables show which courses will be offered in which semesters. Where a course would be required in a different format under either the old or the new Study and Examination Regulations, we indicate how it may be credited.

First Year of Study		
Semester	**Course**	**How can it be credited?**
WS 26/27	Foundations of Mathematics 1 (6+3 contact hours)	
WS 26/27	Analysis 2 (4+2 contact hours)	
WS 26/27	Algebraic Structures (2+1 contact hours)	The two courses may be credited towards the module *Linear Algebra 2* in the B.Sc. (Study and Examination Regulations 2020).
WS 26/27	Multilinear Algebra (2+1 contact hours)	
SS 27	Foundations of Mathematics 1 (6+3 contact hours)	
SS 27	Foundations of Mathematics 2 (6+3 contact hours)	
SS 27	Algebraic Structures (2+1 contact hours)	The two courses may be credited towards the module *Linear Algebra 2* in the B.Sc. (Study and Examination Regulations 2020).
SS 27	Multilinear Algebra (2+1 contact hours)	
WS 27/28	Foundations of Mathematics 1 (6+3 contact hours)	
WS 27/28	Foundations of Mathematics 2 (6+3 contact hours)	
WS 27/28	Algebraic Structures (2+1 contact hours)	
SS 28	Foundations of Mathematics 1 (6+3 contact hours)	
SS 28	Foundations of Mathematics 2 (6+3 contact hours)	

Semester	Course	How can it be credited?
SS 28	Algebraic Structures (2+1 contact hours)	The two courses may be credited towards the module *Linear Algebra 2* in the B.Sc. (Study and Examination Regulations 2020).
SS 28	Multilinear Algebra (2+1 contact hours)	

Second Year of Study		
Semester	**Course**	**How can it be credited?**
WS 26/27	Algebra (4+2 contact hours)	The first half may be credited as *Introduction to Galois Theory*; the complete course may be credited as the module *Algebra*.
WS 26/27	Numerical Mathematics (4+2 contact hours)	The first half may be credited as *Introduction to Numerical Mathematics*; the complete course may be credited as the module *Numerical Mathematics*.
WS 26/27	Geometry (4+2 contact hours)	The first half may be credited as *Introduction to Geometry*; the complete course may be credited as the module *Geometry*.
WS 26/27	Measure and Integration Theory (2+1 contact hours)	The two courses may be credited towards the module *Measure and Integration Theory* in the B.Sc. (Study and Examination Regulations 2020), which concludes with an oral examination.
SS 27	Integration on Submanifolds of $\mathbb{R}^n$ (2+1 contact hours)	
WS 26/27	Introduction to ODE (2+1 contact hours)	The two courses may be credited towards the module *Introduction to Complex Analysis and ODE* in the B.Sc. (Study and Examination Regulations 2020) and the M.Ed. (Study and Examination Regulations 2018), which concludes with an oral examination.
SS 27	Introduction to Complex Analysis (2+1 contact hours)	
SS 27	*Introduction to Galois Theory* will NOT be offered.	
SS 27	Algebra (4+2 contact hours) – offered digitally	May be credited as *Introduction to Galois Theory*; the complete course may be credited as the module *Algebra*.
SS 27	Stochastics	
WS 27/28	Introduction to Numerical Mathematics (2+1 contact hours)	The two courses may be credited towards the module *Numerical Mathematics* in the B.Sc. (Study and Examination Regulations 2020) and the B.Ed. (Study and Examination Regulations 2018).
WS 27/28	Further Lecture on Numerical Mathematics (2+1 contact hours)	
WS 27/28	Introduction to Geometry (2+1 contact hours)	An additional Geometry course will be offered for students in the B.Ed. (Study and Examination Regulations 2018).
WS 27/28	Measure and Integration Theory (2+1 contact hours)	The two courses may be credited towards the module *Measure and Integration Theory* in the B.Sc. (Study and Examination Regulations 2020), which concludes with an oral examination.
SS 28	Integration on Submanifolds of $\mathbb{R}^n$ (2+1 contact hours)	
WS 27/28	Introduction to ODE (2+1 contact hours)	The two courses may be credited towards the module *Introduction to Complex Analysis and ODE* in the B.Sc. (Study and Examination Regulations 2020) and the M.Ed. (Study and Examination Regulations 2018), which concludes with an oral examination.
SS 28	Introduction to Complex Analysis (2+1 contact hours)	
SS 28	Introduction to Galois Theory (2+1 contact hours)	The two courses may be credited towards the module *Algebra* in the B.Sc. (Study and Examination Regulations 2020) and the B.Ed. (Study and Examination Regulations 2018), which concludes with an oral examination.
SS 28	Elementary Number Theory (2+1 contact hours)	
SS 28	Stochastics	

Recommendations on Changing the Study and Examination Regulations

- Students who, at the beginning of Winter Semester 2026/27, have completed only the module *Foundations of Mathematics* in the B.Ed., or only the modules *Analysis* and *Linear Algebra* in the B.Sc., are advised to transfer to the new Study and Examination Regulations.
- Students who, at the beginning of Winter Semester 2026/27, only need *Analysis 2* and/or *Linear Algebra 2* to complete the modules *Analysis* and/or *Linear Algebra* in the B.Sc. should take these courses during Winter Semester 2026/27, complete the modules, and then transfer to the new Study and Examination Regulations at the beginning of Summer Semester 2027.
- Note: The courses *Linear Algebra 1* and *Analysis 1* will no longer be offered from Winter Semester 2026/27 onwards, and *Analysis 2* will no longer be offered from Summer Semester 2027 onwards.
- Students who have already completed a substantial proportion of their studies under the current Study and Examination Regulations, and for whom changing to the new regulations would result in significant changes to the recognition of their achievements, are generally advised *not* to transfer.
- Students seeking advice on whether they should transfer to the new Study and Examination Regulations are welcome to contact the Dean of Studies.

Yours sincerely,