



Wintersemester 24/25

Module Guide

for the study of

Mathematics

valid in connection with the examination regulations MPO 2020

Gemäß Prüfungsordnung zum Zweitfach Mathematik inkl. der fachdidaktischen Anteile im Masterstudiengang Lehramt an berufsbildenden Schulen - Technik vom 03. Mai 2020.

Generated: October 12, 2024

Musterstudienplan - Studienfach Mathematik im Masterstudiengang Lehramt an berufsbildenden Schulen - Technik*

	Fachwissenschaft		Fachdidaktik	
1. Sem.	Lineare Algebra 18 CP		Grundzüge der Mathematikdidaktik 6 CP	
2. Sem.		Geometrie 6 CP		
3. Sem.	Proseminar zur Zahlentheorie 3 CP	Wahlpflichtmodul 9 CP	Diagnostizieren und Fördern mit Praxisanteilen (POE) 6 CP	Stoffdidaktisch denken lernen 3 CP
4. Sem.	Stochastik 9 CP			

Credit Points (kurz: CP) geben den durchschnittlichen Arbeitsaufwand für eine Veranstaltung bzw. ein Modul an, wobei 1 CP = 30 Std.

* Gemäß geltender Regelung für das Zweifach Mathematik inklusive fachdidaktischer Anteile beschlossen am 03.05.2020 (inkl. etwaiger Änderungsordnungen bzw. Berichtigungen)

Index by areas of study

1) Research Subject (45 CP)

Pflichtmodule im Umfang von 45 CP. Auflistung gemäß Studienverlaufsplan.

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2) Subject-Specific Didactics (15 CP)

Pflichtbereich im Umfang von 15 CP. Reihenfolge gemäß Studienverlaufsplan.

03-MAT-BA-D1: Fundamentals of Mathematics Education (6 CP).....	13
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Module 03-MAT-BA-MGY1: Lineare Algebra

Linear Algebra

Assignment to areas of study:

- Research Subject

Content-related prior knowledge or skills:

None

Learning content:

- Linear systems of equations: solvability criteria, Gaussian elimination
- Vector spaces: axiomatics, linear (in)dependence, basis, dimension. Complex numbers
- Linear mappings: Kernel, image, dimension theorem, matrix calculus, change of basis
- Scalar products: Orthonormal bases, Gram-Schmidt method
- Determinants: axiomatic and explicit description, properties
- Eigenvalues: characteristic polynomial, multiplicities, diagonalizability, Jordan normal form (without proof), minimal polynomial, spectral theorems
- Symmetric bilinear forms over the real numbers: Classification, orthogonal complements.

Learning outcomes / competencies / targeted competencies:

- Students master basic mathematical skills
- Students can independently develop mathematical concepts and facts
- Students have active knowledge of proof strategies and techniques
- Students solve linear algebra problems independently
- Students know how linear algebra relates to school mathematics, theoretical mathematics and real world situations

Calculation of student workload:

168 h SWS / presence time / working hours

70 h Exam preparation

302 h Preparation / follow-up work

Are there optional courses in the modules?

no

Language(s) of instruction:

German

Responsible for the module:

Prof. Dr. Eva Maria Feichtner

Frequency:

winter semester, yearly

Duration:

2 semester[s]

The module is valid since / The module is valid until:

SoSe 24 / -

Credit points / Workload:

18 / 540 hours

Module examinations

Module examination: Kombinationsprüfung zur Linearen Algebra

Type of examination: combination exam

Form of examination:

Announcement at the beginning of the semester

The examination is ungraded?

no

Number of graded components / ungraded components / prerequisites of the examination:

1 / 1 / -

Language(s) of instruction:

Deutsch

Description:

Type of Examination: Oral or Written Exam.

The Coursework requirements will be decided upon by the Lecturer at the beginning of the course (Weekly Worksheets, Midterm Exam, Presentation etc.).

Module courses

Course: Vorlesung mit Übung zur Linearen Algebra 1

Frequency:

winter semester, yearly

Language(s) of instruction:

Deutsch

Contact hours:

6,00

University teacher:

Teaching method(s):

Associated module examination:

Kombinationsprüfung zur Linearen Algebra

Associated module courses

Lineare Algebra 1 (Lecture)

Course: Plenum zur Linearen Algebra 1

Frequency:

winter semester, yearly

Language(s) of instruction:

Deutsch

Contact hours:

2,00

University teacher:

Teaching method(s):

Associated module examination:

Kombinationsprüfung zur Linearen Algebra

Associated module courses

Vertiefung zur Linearen Algebra 1 für Lehramt ()

Course: Vorlesung mit Übung zur Linearen Algebra 2

Frequency:

summer semester, yearly

Language(s) of instruction:

Deutsch

Contact hours:

4,00

University teacher:

Teaching method(s):

Associated module examination:

Kombinationsprüfung zur Linearen Algebra

Module 03-MAT-BA-MGY2: Geometrie

Geometry

Assignment to areas of study:

- Research Subject

Content-related prior knowledge or skills:

none

Learning content:

- Axiomatic structure of Euclidean geometry
- Geometry in space (volumes and surface areas of solids and their lateral surfaces)
- Extracts from analytical geometry
- Conic sections
- Non-Euclidean geometries

Learning outcomes / competencies / targeted competencies:

The students

- Understand concepts of the axiomatic structure of geometry
- Derive basic theorems of geometry by logical reasoning from the given axioms
- Master fundamental concepts and factual relationships within plane geometry
- Sensibly use dynamic geometry software (e.g. GeoGebra, Cinderella) to understand problems and generate knowledge
- Can independently solve problems in the field of geometry and prove central theorems
- Deepen and further develop skills in spatial imagination
- Can name and present examples of non-Euclidean geometries

Calculation of student workload:

84 h Preparation / follow-up work

26 h Exam preparation

70 h SWS / presence time / working hours

Are there optional courses in the modules?

no

Language(s) of instruction:

German

Responsible for the module:

Dr. Arsen Narimanyan

Frequency:

summer semester, yearly

Duration:

1 semester[s]

The module is valid since / The module is valid until:

SoSe 24 / -

Credit points / Workload:

6 / 180 hours

This module is ungraded!

Module examinations

Module examination: Kombinationsprüfung zur Geometrie

Type of examination: combination exam

Form of examination: Announcement at the beginning of the semester	The examination is ungraded? no
Number of graded components / ungraded components / prerequisites of the examination: 1 / 1 / -	
Language(s) of instruction: Deutsch	
Description: Type of Examination: Oral or Written Exam. The Coursework requirements will be decided upon by the Lecturer at the beginning of the course (Weekly Worksheets, Midterm Exam, etc.).	

Module courses

Course: Vorlesung mit Übung zur Geometrie	
Frequency: summer semester, yearly	Language(s) of instruction: Deutsch
Contact hours: 6,00	University teacher: Dr. Arsen Narimanyan
Teaching method(s):	Associated module examination: Kombinationsprüfung zur Geometrie

Module 03-MAT-MA-MGY8a: Proseminar zur Zahlentheorie

Number Theory

Assignment to areas of study:

- Research Subject

Content-related prior knowledge or skills:

Knowledge from the modules 03-MAT-BA-MGY1 and 03-MAT-BA-MGY2.

Learning content:

Concepts of number theory: number-theoretical functions, Euler's phi function, prime number theorem, quadratic reciprocity law.

Selected topics e.g. construction of p-adic numbers.

Applications of number theory e.g. RSA.

Learning outcomes / competencies / targeted competencies:

- Apply concepts of number theory in the investigation of number ranges
- Understanding of basic concepts of number theory and their algebraic and arithmetic meaning (prime numbers, quadratic Forms, division algorithms, number-theoretical functions,...)
- Mathematization of the construction and properties of number ranges
- Investigation of natural numbers with the help of suitable software

Calculation of student workload:

34 h Exam preparation

28 h SWS / presence time / working hours

28 h Preparation / follow-up work

Are there optional courses in the modules?

no

Language(s) of instruction:

German

Responsible for the module:

Prof. Dr. Anke Dorothea Pohl

Frequency:

winter semester, yearly

Duration:

1 semester[s]

The module is valid since / The module is valid until:

SoSe 24 / -

Credit points / Workload:

3 / 90 hours

Module examinations

Module examination: Kombinationsprüfung zum Proseminar zur Zahlentheorie

Type of examination:
Form of examination:

Presentation and written assignment

The examination is ungraded?

no

Number of graded components / ungraded components / prerequisites of the examination:

- / - / -

Language(s) of instruction:

Deutsch

Module courses

Course: Seminar zur Zahlentheorie	
Frequency: winter semester, yearly	Language(s) of instruction: Deutsch
Contact hours: 2,00	University teacher: Universität Bremen Mathematik der Lehrende der
Teaching method(s): Seminar	Associated module examination: Kombinationsprüfung zum Proseminar zur Zahlentheorie

Module 03-MAT-MA-MBS: Wahlpflichtmodul

Optional Subject

Assignment to areas of study:

- Research Subject

Content-related prior knowledge or skills:

none

Learning content:**Learning outcomes / competencies / targeted competencies:****Calculation of student workload:**

84 h Preparation / follow-up work

32 h Exam preparation

154 h SWS / presence time / working hours

Are there optional courses in the modules?

yes

Students must choose **one** of the following modules:

- Algebra
- Analysis 3
- Functional Analysis
- Numerical Mathematics 1

Language(s) of instruction:

German

Responsible for the module:

Dr. Ingolf Schäfer

Frequency:

each semester

Duration:

1 semester[s]

The module is valid since / The module is valid until:

SoSe 24 / -

Credit points / Workload:

9 / 270 hours

Module examinations**Module examination:** Combination Examination according to the selected Course**Type of examination:** combination exam**Form of examination:**

See free text

The examination is ungraded?

no

Number of graded components / ungraded components / prerequisites of the examination:

1 / 1 / -

Language(s) of instruction:

Deutsch

Description:

Type of Examination: Oral or Written Exam.

The Coursework requirements will be decided upon by the Lecturer at the beginning of the course (Weekly Worksheets, Midterm Exam, etc.).

Module courses

Course: Vorlesung inkl. Übung zum gewählten Modul	
Frequency: each semester	Language(s) of instruction: Deutsch
Contact hours: 6,00	University teacher: Lehrende der Mathematik
Teaching method(s):	Associated module examination: Kombinationsprüfung MBS Wahlpflichtmodul

Module 03-MAT-BA-MGY7: Stochastik Stochastics

Assignment to areas of study:

- Research Subject

Content-related prior knowledge or skills:

Knowledge from the modules 03-MAT-BA-MGY1 and 03-MAT-BA-MGY3.

Learning content:

Probability measures and distributions (on discrete sets, the real numbers \mathbb{R} and on \mathbb{R}^n), random variables, density functions and distribution functions, stochastic independence and convolutions, expected value, variance, covariance, correlation, law of large numbers. Further topics may include, for example, convergence of random variables and distributions, the central limit theorem, statistical estimation methods and hypothesis testing.

Learning outcomes / competencies / targeted competencies:

Students should be familiar with the mathematical modeling of chance and probability, know basic stochastic models and analytical concepts and be able to apply these to concrete situations (e.g. games of chance, election forecasts, clinical studies). Students should be able to use stochastic modeling in applications and be able to apply advanced basic concepts (such as statistical estimation methods, Markoff chains, stochastic processes) in elementary models.

Calculation of student workload:

84 h SWS / presence time / working hours

46 h Exam preparation

140 h Preparation / follow-up work

Are there optional courses in the modules?

no

Language(s) of instruction:

German

Responsible for the module:

Prof. Dr. Thorsten-Ingo Dickhaus

Frequency:

Duration:

The module is valid since / The module is valid until:

SoSe 24 / -

Credit points / Workload:

9 / 270 hours

This module is ungraded!

Module examinations

Module examination: Kombinationsprüfung zur Stochastik

Type of examination: combination exam

Form of examination:

Announcement at the beginning of the semester

The examination is ungraded?

no

Number of graded components / ungraded components / prerequisites of the examination:

1 / 1 / -

Language(s) of instruction:

Deutsch

Description:

Type of Examination: Oral or Written Exam.

The Coursework requirements will be decided upon by the Lecturer at the beginning of the course (Weekly Worksheets, Midterm Exam, etc.).

Module courses

Course: Vorlesung mit Übung zur Stochastik

Frequency:

summer semester, yearly

Language(s) of instruction:

Deutsch

Contact hours:

6,00

University teacher:

Teaching method(s):

Associated module examination:
Kombinationsprüfung zur Stochastik

Module 03-MAT-BA-D1: Grundzüge der Mathematikdidaktik

Fundamentals of Mathematics Education

Assignment to areas of study:

- Subject-Specific Didactics

Content-related prior knowledge or skills:

none

Learning content:

Basic didactic mathematical knowledge of

- General education concepts for learning mathematics
- Basic learning theory and psychological approaches and their implications for subject-related diagnostics
- Didactically relevant results of empirical educational and teaching research within the subject
- Subject areas and standards of mathematics teaching
- Fundamental ideas and basic concepts of central mathematics didactic concepts
- Findings and concepts of didactic mathematics as well as concrete approaches to important learning situations (forming concepts, discovering and justifying connections, practicing, modeling, reflection and systematizing, checking performance, developing mathematical terminology, ...)
- Mathematics affiliated teaching/learning research (e.g. motivation, individual ideas and mistakes of students, dispositions, typical processes and hurdles in learning processes, structure and effects of learning environments)
- Social aspects of and influences on the design of mathematics lessons
- Dimensions of diversity in mathematics lessons (e.g. disabilities as defined by the Convention on the Rights of Persons with Disabilities, augmentative and alternative conditions such as language, social living conditions, cultural and religious orientations, gender as well as special gifts and talents)

Manifestation of basic knowledge using the example of a mathematical subject area

(e.g. the didactic of functions):

- Basic concepts, fundamental ideas of the subject area
- Characteristic subject specific argumentation methods, problem-solving strategies and patterns of mathematical interpretation
- Paradigmatic examples
- Typical learner perspectives in the subject area (ideas, error patterns, barriers to understanding, starting points)
- Central didactic concepts and materials for teaching the subject area

Learning outcomes / competencies / targeted competencies:

Broad foundation of didactic mathematics skills as a basis for development in the area of knowledge acquisition, i.e. students

- Have structured and interlinked basic knowledge of subject-specific didactic concepts and can use this to analyze tasks, materials and concepts
- Are able to adequately present mathematical facts in both oral and written form, structure mathematical areas by stating driving questions, create and understand connections between them and establish references to school mathematics and its development
- Are able to check other people's arguments and build their own chains of reasoning when conjecturing and proving mathematical statements, apply mathematical thought patterns to internal mathematical and practical problems (mathematize) and create, reflect on and communicate solutions to problems using suitable media
- Have initial experience in planning and designing learning activities, also taking into account the heterogeneity of learners, the possibilities of new media and a variety of methods
- Develop subject-related diagnostic skills
- Analyze their own productions against the background of theoretical knowledge about typical learner perspectives, different argumentation bases, ideas to be developed, etc.
- Design, realize, present and evaluate initial explorations on the basis of their own questions founded on acquired subject-specific didactic principles
- Engage academically with subject-specific didactic literature

Calculation of student workload:

72 h Preparation / follow-up work

24 h Exam preparation

84 h SWS / presence time / working hours

Are there optional courses in the modules?

no

Language(s) of instruction: German	Responsible for the module: Prof. Dr. Christine Knipping
Frequency: winter semester, yearly	Duration: 2 semester[s]
The module is valid since / The module is valid until: SoSe 24 / -	Credit points / Workload: 6 / 180 hours

Module examinations

Module examination: Kombinationsprüfung zu Grundzüge der Mathematikdidaktik

Type of examination: combination exam

Form of examination:

Announcement at the beginning of the semester

The examination is ungraded?

no

Number of graded components / ungraded components / prerequisites of the examination:

1 / 1 / -

Language(s) of instruction:

Deutsch

Description:

Type of Examination: Oral or Written Exam.

The Coursework requirements will be decided upon by the Lecturer at the beginning of the course (Weekly Worksheets, Midterm Exam, etc.).

Module courses**Course:** Vorlesung mit Übung zu Grundzüge der Mathematikdidaktik**Frequency:**

winter semester, yearly

Language(s) of instruction:

Deutsch

Contact hours:

4,00

University teacher:

Dr. Fiene Bredow

Teaching method(s):**Associated module examination:**

Kombinationsprüfung zu Grundzüge der Mathematikdidaktik

Associated module courses**Grundzüge der Mathematikdidaktik - Teil 1 (Lecture)****Course:** Seminar zu Grundzüge der Mathematikdidaktik**Frequency:**

winter semester, yearly

Language(s) of instruction:

Deutsch

Contact hours:

2,00

University teacher:

Dr. Fiene Bredow

Teaching method(s):

Seminar

Associated module examination:

Kombinationsprüfung zu Grundzüge der Mathematikdidaktik

Module 03-MAT-BA-D2: Diagnostizieren und Fördern mit Praxisanteilen

Diagnosis and Support with School Practice

Assignment to areas of study:

- Subject-Specific Didactics

Content-related prior knowledge or skills:

none

Learning content:

The module introduces students to the analysis and diagnosis of varying mathematical learning processes, including theory-based preparation and evaluation of supportive learning arrangements. To this end, basic didactic knowledge of the subject matter is expanded, and reference is made to previously covered fundamental content-related concepts of subject teaching, subject-didactic diagnostic approaches; and support concepts based on these, including empirical findings.

The practical component of the course is primarily concerned with testing, expanding and reflecting on theoretical knowledge of diagnosis and support with regard to targeted practical diagnosis and support of subject-related learning processes. The specific content consists of a selection of the following topics, for example:

- Learning difficulties/talents/interests/skills/... in an area of school mathematics in connection with related didactic knowledge (arithmetic, elementary algebra, real numbers, ...)
- Knowledge of quantitative and qualitative methods for analyzing and diagnosing subject-related learning processes for pupils with learning difficulties in everyday lessons
- Theories, strategies, tools, learning materials and models for designing mathematically supportive learning environments
- Didactic-methodical analysis of tasks with regard to their support potential
- Planning, implementation and reflection of a supportive learning sequence
- Dealing with errors, learning hurdles, ideas, ...

There is a selection of possibilities for diagnosing and supporting dyscalculia, geometric imagination, learning delays in algebra, analytical learning hurdles, mathematical giftedness and interested pupils. These are discussed in the situations of inclusive classes, heterogeneous groups, skills in everyday lessons, using results from comparative tests, ...

Learning outcomes / competencies / targeted competencies:

Theory-based subject-didactic diagnostics, support, action and reflection, including subject-didactic knowledge: Students

- Develop and activate the knowledge needed to analyze tasks, materials and concepts with regard to the didactically justified design of supportive learning arrangements
- Are able to use subject-specific didactic concepts and empirical findings from mathematics-related teaching and learning research in order to analyze individual situations - the heterogeneous ideas, ways of thinking and error patterns of pupils. They can assess the learning status and potential of individuals, motivate them to learn mathematics and accompany them on their individual learning paths as well as promote and evaluate individual learning progress
- Deepen their subject-related diagnostic competence by planning and carrying out a diagnostically focused exploratory project to analyze typical learner perspectives, competencies, argumentation bases, ideas, learning difficulties, ...
- Understand and use typical literature for the development of diagnostic exploratory designs
- Present their support-diagnostic concept and explain it in a discourse
- Practice learner-adaptive support
- Expand their ability to analyze and critically reflect on their own actions
- Document diagnostic data for the purpose of preparing a written diagnosis and formulate a support recommendation (addressed to potential teachers)
- Take into account various dimensions of diversity in mathematics lessons. This includes disabilities as defined by the Convention on the Rights of Persons with Disabilities as well as special augmentative and alternative learning conditions, e.g. language, social living conditions, cultural and religious orientations, gender as well as special gifts and talents

Calculation of student workload:

45 h Preparation / follow-up work

86 h SWS / presence time / working hours

49 h Exam preparation

Are there optional courses in the modules?

no

Language(s) of instruction: German	Responsible for the module: Prof. Dr. Christine Knipping
Frequency: winter semester, yearly	Duration: 1 semester[s]
The module is valid since / The module is valid until: SoSe 24 / -	Credit points / Workload: 6 / 180 hours

Module examinations

Module examination: Modulprüfung	
Type of examination: module exam	
Form of examination: Portfolio (AT § 8 Abs. 8)	The examination is ungraded? no

Number of graded components / ungraded components / prerequisites of the examination:

- / 1 / -

Language(s) of instruction:

Deutsch

Description:

The coursework includes the diagnosis and support of pupils; portfolio with diagnostic descriptions, support planning and documentation, as well as a recommendation for the required level and type of support.

Module courses

Course: Seminar

Frequency:

winter semester, yearly

Language(s) of instruction:

Deutsch

Contact hours:

2,00

University teacher:

Teaching method(s):

Seminar

Associated module examination:

Modulprüfung

Associated module courses

Diagnostizieren und Fördern mit Praxisanteilen (Didaktik der Arithmetik) (Seminar)

Course: Praktikum

Frequency:

winter semester, yearly

Language(s) of instruction:

Deutsch

Contact hours:

-

University teacher:

Teaching method(s):

Laboratory class

Associated module examination:

Modulprüfung

Associated module courses

Diagnostizieren und Fördern mit Praxisanteilen (Didaktik der Arithmetik) (Seminar)

Module 03-MAT-MA-D3: Stoffdidaktisch denken lernen**Didactical learning of thinking****Assignment to areas of study:**

- Subject-Specific Didactics

Content-related prior knowledge or skills:

none

Learning content:

Selection from a range of subject-related topics in "Didactics of analysis", "Didactics of stochastics", "Didactics of linear algebra", "Didactics of analytical geometry", "Didactics of geometry", "Didactics of applications in mathematics lessons", "Didactics of elementary algebra", "Didactics of arithmetic", ...

Educational standards, educational plans and content-specific curricular implementations; aims of mathematics teaching, including basic experiences of mathematics teaching; quality criteria for mathematics teaching; teaching models and "standard situations" for mathematics lessons; mathematics didactic teaching methods; diagnostics and performance assessment in mathematics lessons; lesson planning and task construction; planning and analysis of differentiated mathematics lessons, didactic analysis and situation-appropriate adaptations; observation and reflection of lessons.

Dimensions of diversity in mathematics lessons (e.g. disabilities as defined by the Convention on the Rights of Persons with Disabilities, augmentative and alternative learning conditions such as language, social living conditions, cultural and religious orientations, gender as well as special gifts and talents).

Learning outcomes / competencies / targeted competencies:

Students acquire skills for the independent planning and implementation of lessons. This includes subject-didactic analysis and the reflection on mathematics teaching using didactic analyses, theoretical models and empirical findings. The students.

- Are able to justify the general educational value of mathematical content and methods, including the social significance of mathematics. They are able to place this within the context of the aims and content of mathematics lessons
- Embed specific content in educational plans and are familiar with curricular implementations
- Should acquire skills for independent didactic thinking; this includes the genesis of knowledge through didactic analyses
- Understand and reflect on the content of school mathematics on the basis of in-depth mathematical knowledge and its learning tools
- Can deal with didactic theories and methods for teaching and learning special content areas of mathematics at grammar schools/high schools in an academically appropriate manner
- Understand technical language, conceptualization, basic ideas and ways of thinking, being able to apply these to specific content areas; they can use these skills for the analysis and development of tasks in a well-founded manner
- Use digital media to design lessons
- Are able to assess the quality of content-related teaching and learning concepts for a specific content area in a didactically sound manner
- Design and create tasks that provide the core of lesson planning

Calculation of student workload:

32 h Preparation / follow-up work

28 h SWS / presence time / working hours

30 h Exam preparation

Are there optional courses in the modules?

no

Language(s) of instruction: German	Responsible for the module: Prof. Dr. Christine Knipping
Frequency: winter semester, yearly	Duration: 1 semester[s]
The module is valid since / The module is valid until: SoSe 24 / -	Credit points / Workload: 3 / 90 hours

Module examinations

Module examination: Kombinationsprüfung	
Type of examination: combination exam	
Form of examination: Portfolio (AT § 8 Abs. 8)	The examination is ungraded? no
Number of graded components / ungraded components / prerequisites of the examination: 1 / 1 / -	
Language(s) of instruction: Deutsch	
Description: The Coursework requirements will be decided upon by the Lecturer at the beginning of the course (Weekly Worksheets, Midterm Exam, etc.).	

Module courses

Course: Seminar	
Frequency: winter semester, yearly	Language(s) of instruction: Deutsch
Contact hours: 2,00	University teacher:
Teaching method(s): Seminar	Associated module examination: Kombinationsprüfung
Associated module courses Stoffdidaktisch denken lernen (Seminar)	