## Modules for Elementary Mathematics

### Basismodule

**ema001 - Mathematics Education I**

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**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Links**

**Language of instruction** German

**Duration (semesters)** 2 Semester

**Module frequency**

**Module capacity** unlimited

**Module level** ---

**Modulart** je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

**Examination**

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**Total time of attendance for the module** 112 h
**ema002 - Basics in Arithmetic**

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**Contact person**
- Module responsibility
  - Ralph Schwarzkopf

**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Links**

**Language of instruction**
- German

**Duration (semesters)**
- 1 Semester

**Module frequency**
- ---

**Module capacity**
- unlimited

**Modullevel**
- ---

**Modulart**
- je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

**Examination**
- Time of examination
- Type of examination

**Final exam of module**
- KL

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**Total time of attendance for the module**
- 56 h
ema003 - Basics in Geometry

Module label: Basics in Geometry
Module code: ema003
Credit points: 6.0 KP
Workload: 180 h
Used in course of study: Zwei-Fächer-Bachelor Elementarmathematik > Basismodule

Contact person
Module responsibility
- Ralph Schwarzkopf
- Hartmut Köhne

Entry requirements

Skills to be acquired in this module

Module contents

Reader's advisory

Links

Language of instruction: German
Duration (semesters): 1 Semester
Module frequency
Module capacity: unlimited
Modulelevel: ---
Modulart: je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program

Vorkenntnisse / Previous knowledge

Examination
Time of examination
Type of examination
Final exam of module
KL

Course type
Comment
SWS
Frequency
Workload attendance
Lecture
2.00
SuSe
28 h
Exercises
2.00
SuSe
28 h

Total time of attendance for the module: 56 h
ema008 - Functions and Structures

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Contact person

- Module responsibility
  - Ralph Schwarzkopf
  - Gabriele Grieshop

Entry requirements

Skills to be acquired in this module

Module contents

Reader's advisory

Links

Language of instruction | German
Duration (semesters)    | 1 Semester

Module frequency

Module capacity | unlimited

Modullevel | ---

Modulart | je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program

Vorkenntnisse / Previous knowledge

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<td>Diana Hunscheidt</td>
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Entry requirements

Skills to be acquired in this module

Module contents

Reader's advisory

Links

Language of instruction | German |
Duration (semesters)    | 1 Semester |
Module frequency        | --- |
Module capacity         | unlimited |
Modullevel              | --- |
Modulart                | je nach Studiengang Pflicht oder Wahlpflicht |

Lern-/Lehrform / Type of program

Vorkenntnisse / Previous knowledge

Examination

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Total time of attendance for the module

56 h
ema120 - Arithmetic and its Didactics

Module label: Arithmetic and its Didactics
Module code: ema120
Credit points: 12.0 KP
Workload: 360 h

Used in course of study:
- Zwei-Fächer-Bachelor Elementarmathematik > Basismodule

Contact person:
Module responsibility
- Ralph Schwarzkopf

Entry requirements
Skills to be acquired in this module
Module contents
Reader's advisory
Links

Language of instruction: German
Duration (semesters): 2 Semester
Module frequency
Module capacity: unlimited
Modullevel: ---
Modulart: je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program

Vorkenntnisse / Previous knowledge

Examination
Time of examination
Type of examination
Final exam of module: G

Course type
Comment
SWS
Frequency
Workload attendance
Lecture
4.00
56 h
Exercises
4.00
56 h

Total time of attendance for the module: 112 h
# ema130 - Geometry and its Didactics

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**Contact person**

- Module responsibility
- Ralph Schwarzkopf
- Hartmut Köhne

**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Links**

- Language of instruction: German
- Duration (semesters): 2 Semester
- Module frequency: unlimited
- Modullevel: ---
- Modulart: je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

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**Total time of attendance for the module**: 112 h
### Aufbaumodule

**ema004 - Teaching and Learning Geometry at Primary Level**

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| | Zwei-Fächer-Bachelor Elementarmathematik > Aufbaumodule |
| Contact person | Module responsibility |
| | · Ralph Schwarzkopf  
| | · Diana Hunscheidt |

**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Language of instruction** German

**Duration (semesters)** 1 Semester

**Module frequency**

**Module capacity** unlimited

**Modullevel** ---

**Modulart** je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

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**Course type** Seminar

**SWS** 2.00

**Frequency** SuSe

**Workload attendance** 28 h
### ema005 - Teaching and Learning Geometry at Secondary Level

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  - Master of Education (Sonderpädagogik) Elementarmathematik > Mastermodule  
  - Zwei-Fächer-Bachelor Elementarmathematik > Aufbaumodule |
| **Contact person** | Module responsibility  
  - Ralph Schwarzkopf |

**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Links**

**Language of instruction** | German |
| **Duration (semesters)**   | 1 Semester |
| **Module frequency**       | --- |
| **Module capacity**        | unlimited |
| **Modullevel**             | je nach Studiengang Pflicht oder Wahlpflicht |

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

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ema006 - Aspects of Elementary Number Theory

Module label: Aspects of Elementary Number Theory
Module code: ema006
Credit points: 6.0 KP
Workload: 180 h
Used in course of study:
- Master of Education (Sonderpädagogik) Elementarmathematik > Mastermodule
- Zwei-Fächer-Bachelor Elementarmathematik > Aufbaumodule

Contact person:
Module responsibility
- Ralph Schwarzkopf
- Birte Julia Specht

Entry requirements

Skills to be acquired in this module
Module contents
Reader's advisory
Links

Language of instruction: German
Duration (semesters): 1 Semester

Module frequency
Module capacity: unlimited
Modullevel: ---
Modulart: je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program
Vorkenntnisse / Previous knowledge

Examination
Time of examination
Type of examination

Final exam of module

Course type
Lecture
Exercises

Comment
2.00
2.00

SWS
Frequency
Workload attendance
WiSe
28 h
WiSe
28 h

Total time of attendance for the module
56 h
### ema007 - Basics in School Algebra

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 |                         | Zwei-Fächer-Bachelor Elementarmathematik > Aufbaumodule         |
| Contact person          | Module responsibility    |
|                         | ‣ Ralph Schwarzkopf      |
|                         | ‣ Birte Julia Specht     |

**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Links**

**Language of instruction** German

**Duration (semesters)** 1 Semester

**Module frequency**

**Module capacity** unlimited

**Modullevel** ---

**Modulart** je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

**Examination**

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**Total time of attendance for the module** 56 h
### ema009 - Advanced Topics of Elementary Mathematics

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#### Used in course of study
- Master of Education (Sonderpädagogik) Elementarmathematik > Mastermodule
- Zwei-Fächer-Bachelor Elementarmathematik > Aufbaumodule

#### Contact person
- Module responsibility
  - Ralph Schwarzkopf

#### Entry requirements

#### Skills to be acquired in this module

#### Module contents

#### Reader's advisory

#### Links

#### Language of instruction
- German

#### Duration (semesters)
- 1 Semester

#### Module frequency

#### Module capacity
- unlimited

#### Modullevel
- ---

#### Modulart
- je nach Studiengang Pflicht oder Wahlpflicht

#### Lern-/Lehrform / Type of program

#### Vorkenntnisse / Previous knowledge

#### Examination

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#### Total time of attendance for the module
- 56 h
# ema010 - Mathematics Education II

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**Contact person**

- Ralph Schwarzkopf
- Diana Hunscheidt

## Entry requirements

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Links**

**Language of instruction**

- German

**Duration (semesters)**

- 1 Semester

**Module frequency**

**Module capacity**

- unlimited

**Modullevel**

---

**Modulart**

- je nach Studiengang Pflicht oder Wahlpflicht

### Lern-/Lehrform / Type of program

**Vorkenntnisse / Previous knowledge**

**Examination**

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**Final exam of module**

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**Total time of attendance for the module**

- 56 h
### ema011 - Mathematics Education III at Primary Level

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| Used in course of study  | - Master of Education (Sonderpädagogik) Elementarmathematik > Mastermodule  
                          | - Zwei-Fächer-Bachelor Elementarmathematik > Aufbaumodule |
| Contact person           | Module responsibility                       |
|                          | - Ralph Schwarzkopf                         |

**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Links**

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**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

<table>
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**Course type**

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ema012 - Mathematics Education III at Secondary Level

Module label: Mathematics Education III at Secondary Level
Module code: ema012
Credit points: 3.0 KP
Workload: 90 h

Used in course of study:
- Master of Education (Sonderpädagogik) Elementarmathematik > Mastermodule
- Zwei-Fächer-Bachelor Elementarmathematik > Aufbaumodule

Contact person:
- Module responsibility
  - Ralph Schwarzkopf

Entry requirements

Skills to be acquired in this module

Module contents

Reader's advisory

Links

Language of instruction: German
Duration (semesters): 1 Semester

Module frequency

Module capacity: unlimited
Modullevel: ---
Modulart: je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program

Vorkenntnisse / Previous knowledge

Examination

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Course type: Seminar

SWS: 2.00
Frequency: WiSe
Workload attendance: 28 h
**ema210 - Development of Mathematical Knowledge**

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<td>• Hartmut Köhne</td>
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**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Links**

**Language of instruction** German

**Duration (semesters)** 1 Semester

**Module frequency**

**Module capacity** unlimited

**Modullevel** ---

**Modulart** je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

**Examination**

**Final exam of module**

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**Total time of attendance for the module** 56 h
### ema220 - Investigating Mathematical Structures

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<td></td>
<td>• Ralph Schwarzkopf</td>
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<td>• Birte Julia Specht</td>
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ema230 - School Algebra

Module label: School Algebra
Module code: ema230
Credit points: 6.0 KP
Workload: 180 h
Used in course of study:
- Master of Education (Sonderpädagogik) Elementarmathematik > Mastermodule
- Zwei-Fächer-Bachelor Elementarmathematik > Aufbaumodule

Contact person
Module responsibility
- Ralph Schwarzkopf
- Birte Julia Specht

Entry requirements
Skills to be acquired in this module
Module contents
Reader's advisory
Links
Language of instruction: German
Duration (semesters): 1 Semester
Module frequency
Module capacity: unlimited
Modullevel: ---
Modulant: je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program
Vorkenntnisse / Previous knowledge
Examination
Time of examination
Type of examination
Final exam of module
KL
Course type
Comment
SWS
Frequency
Workload attendance
Lecture
2.00
28 h
Exercises
2.00
28 h
Total time of attendance for the module
56 h

Duration (semesters): 1 Semester
Module frequency
Module capacity: unlimited
Modullevel: ---
Modulant: je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program
Vorkenntnisse / Previous knowledge
Examination
Time of examination
Type of examination
Final exam of module
KL
Course type
Comment
SWS
Frequency
Workload attendance
Lecture
2.00
28 h
Exercises
2.00
28 h
Total time of attendance for the module
56 h
ema240 - Exploring Functional Relationships

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<td>Gabriele Grieshop</td>
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ema250 - Recognizing and Stimulating Pupils' Competencies

Module label  Recognizing and Stimulating Pupils' Competencies
Module code    ema250
Credit points  6.0 KP
Workload       180 h
Used in course of study  
  - Master of Education (Sonderpädagogik) Elementarmathematik > Mastermodule
  - Zwei-Fächer-Bachelor Elementarmathematik > Aufbaumodule

Contact person  Module responsibility
  - Ralph Schwarzkopf
  - Diana Hunscheidt

Entry requirements

Skills to be acquired in this module

Module contents

Reader's advisory

Links

Language of instruction  German
Duration (semesters)     1 Semester

Module frequency

Module capacity     unlimited

Modullevel

Modulart     je nach Studiengang Pflicht oder Wahlpflicht

Lern-/Lehrform / Type of program

Vorkenntnisse / Previous knowledge

Examination

Time of examination

Type of examination

Final exam of module

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Total time of attendance for the module  56 h
**Abschlussmodul**

**bam - Bachelor’s Thesis Module**

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**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader’s advisory**

**Links**

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**Module frequency**

**Module capacity**

**Modullevel**

**Modulart**

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

**Examination**

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**Frequency**

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**Frühere Module**

**ema265 - Applied Mathematics/Stochastics**

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                         | - Zwei-Fächer-Bachelor Elementarmathematik > Frühere Module |
| Contact person        | Module responsibility           |
|                       | • Ralph Schwarzkopf             |

**Entry requirements**

**Skills to be acquired in this module**

**Module contents**

**Reader's advisory**

**Links**

**Language of instruction**

**German**

**Duration (semesters)**

1 Semester

**Module frequency**

**Module capacity**

unlimited

**Modullevel**

---

**Modulart**

je nach Studiengang Pflicht oder Wahlpflicht

**Lern-/Lehrform / Type of program**

**Vorkenntnisse / Previous knowledge**

**Examination**

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<td>Exercises</td>
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**Total time of attendance for the module**

56 h