Module Catalogue
for the Subject

Didactics in Chemistry (Middle School)
as Didaktikfach
with the degree "Erste Staatsprüfung für das Lehramt für Sonderpädagogik"

Examination regulations version: 2013
Responsible: Faculty of Chemistry and Pharmacy
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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

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

Notes

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 the 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 (2014-55)

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.
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).
Module title | Abbreviation
---|---
Experiments in Chemical Education | 08-FD-ExUnt-092-m01

Module coordinator | Module offered by
holder of the Professorship of Didactics of Chemistry | Institute of Inorganic Chemistry

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Contents

German contents available but not translated yet.

Das Modul vermittelt experimentelle Fähigkeiten und Fertigkeiten und ihren Einsatz bei der Unterrichtsplanung.

Intended learning outcomes

German intended learning outcomes available but not translated yet.


Courses (type, number of weekly contact hours, language — if other than German)

This module comprises 2 module components. Information on courses will be listed separately for each module component.

- 08-FD-ExUnt-1-092: Ü (no information on SWS (weekly contact hours) and course language available)
- 08-FD-ExUnt-2-092: S (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

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.

Assessment in module component 08-FD-ExUnt-1-092: Experiments in Chemical Teaching at Primary and Secondary Public Schools

- 4 ECTS, Method of grading: numerical grade
- presentation with demonstration (approx. 30 minutes)
- Language of assessment: German or English

Assessment in module component 08-FD-ExUnt-2-092: Planning of Teaching Units

- 1 ECTS, Method of grading: numerical grade
- presentation (approx. 20 minutes)
- Language of assessment: German or English

Allocation of places

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Additional information

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Referred to in LPO I (examination regulations for teaching-degree programmes)

§ 36 (1) 7. Didaktik der Grundschule Chemie
§ 38 (1) 1. Didaktik der Hauptschule Chemie
§ 38 (1) 1. Didaktik der Mittelschule Chemie
§ 42 Chemie Fachdidaktik
Module title
Chemistry Education: Educational Theory and Models of Teaching Concepts

Abbreviation
08-FD-Ch-BM-Did-092-m01

Module coordinator
holder of the Professorship of Didactics of Chemistry

Module offered by
Institute of Inorganic Chemistry

ECTS
5

Method of grading
numerical grade

Only after succ. compl. of module(s)
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Duration
1 semester

Module level
undergraduate

Other prerequisites
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Contents
German contents available but not translated yet.

Das Modul führt in die Grundlagen der Fachdidaktik Chemie ein.

Intended learning outcomes
German intended learning outcomes available but not translated yet.

Der/Die Studierende verfügt über Grundkenntnisse fachdidaktischer Theorien und Modelle. Er/Sie kann Unter-
richtsmaterialien nach didaktischen Gesichtspunkten auswählen und erstellen sowie zielführend im Chemieunter-
terricht einsetzen.

Courses
(type, number of weekly contact hours, language — if other than German)

This module comprises 2 module components. Information on courses will be listed separately for each module
component.

• 08-FD-Einf-1-092: V (no information on SWS (weekly contact hours) and course language available)
• 08-FD-Ch-BM-Did-2-092: S (no information on SWS (weekly contact hours) and course language availa-
ble)

Method of assessment
(type, scope, language — if other than German, examination offered — if not every semester, information on whether
module is creditable for bonus)

Assessment in this module comprises the assessments in the individual module components as specified be-
low. Unless stated otherwise, successful completion of the module will require successful completion of all indi-
vidual assessments.

Assessment in module component 08-FD-Einf-1-092: Introduction in Chemistry Education

• 3 ECTS, Method of grading: numerical grade
• written examination (approx. 90 minutes)
• Language of assessment: German or English

Assessment in module component 08-FD-Ch-BM-Did-2-092: Generation and Utilization of learning Aids

• 2 ECTS, Method of grading: (not) successfully completed
• presentation (approx. 20 minutes)
• Language of assessment: German or English

Allocation of places
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Additional information
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Referred to in LPO I (exam. reg. data record Lehr-
amt Sonderpädagogik (Mittelschule-Didaktikfach) Chemie - 2013)

§ 36 (1) 7. Didaktik der Grundschule Chemie
§ 38 (1) 1. Didaktik der Hauptschule Chemie
§ 38 (1) 1. Didaktik der Mittelschule Chemie
§ 42 Chemie Fachdidaktik
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**Contents**

German contents available but not translated yet.

Das Modul vermittelt Inhalte und Umsetzung von Chemieunterricht an Hauptschulen.

**Intended learning outcomes**

German intended learning outcomes available but not translated yet.


**Courses**

This module comprises 2 module components. Information on courses will be listed separately for each module component.

- 08-FD-SchulUms-1-092: S (no information on SWS (weekly contact hours) and course language available)
- 08-FD-SchulUms-Did-2-092: S (no information on SWS (weekly contact hours) and course language available)

**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.

**Assessment in module component 08-FD-SchulUms-1-092:** Technical Contents and Practicabilities in Schools

- 3 ECTS, Method of grading: numerical grade
- Testat (exam, approx. 20 minutes)
- Language of assessment: German or English

**Assessment in module component 08-FD-SchulUms-Did-2-092:** Theoretical Basics of School-Chemistry

- 2 ECTS, Method of grading: numerical grade
- written examination (approx. 45 minutes)
- Language of assessment: German or English

**Allocation of places**

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**Additional information**

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**Referred to in LPO I** (examination regulations for teaching-degree programmes)

§ 36 (1) 7. Didaktik der Grundschule Chemie
§ 38 (1) 1. Didaktik der Hauptschule Chemie
§ 38 (1) 1. Didaktik der Mittelschule Chemie
§ 42 Chemie Fachdidaktik
### Module title

| Social Forms in Chemistry Learning and Extracurricular Sites | 08-FD-HS-Did-092-m01 |

### Module coordinator

| holder of the Professorship of Didactics of Chemistry |

### Module offered by

| Institute of Inorganic Chemistry |

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### Contents

German contents available but not translated yet.

Das Modul behandelt Sozialformen und außerschulische Lernorte im Chemieunterricht.

### Intended learning outcomes

German intended learning outcomes available but not translated yet.

Der/Die Studierende verfügt über ein umfangreiches Repertoire an Sozialformen und kann diese situationsbezogen im Chemieunterricht einsetzen. Er/Sie ist in der Lage, außerschulische Lernorte gewinnbringend in die Unterrichtsplanung einzubinden.

### Courses

This module comprises 2 module components. Information on courses will be listed separately for each module component.

- **08-FD-HS-Did-1-092**: S (no information on SWS (weekly contact hours) and course language available)
- **08-FD-HS-Did-2-092**: Ü (no information on SWS (weekly contact hours) and course language available)

### 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.

**Assessment in module component 08-FD-HS-Did-1-092**: Social Forms in Chemistry Learning at Comprehensive Schools

- 3 ECTS, Method of grading: numerical grade
- presentation (approx. 45 minutes)
- Language of assessment: German or English

**Assessment in module component 08-FD-HS-Did-2-092**: Extracurricular Sites

- 2 ECTS, Method of grading: (not) successfully completed
- presentation of a field trip to out-of-classroom learning environments (approx. 45 minutes)
- Language of assessment: German or English

### Allocation of places

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### Additional information

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### Referred to in LPO I

(examination regulations for teaching-degree programmes)

§ 38 (1) 1. Didaktik der Hauptschule Chemie
§ 38 (1) 1. Didaktik der Mittelschule Chemie
Freier Bereich (general as well as subject-specific electives) (0-15 ECTS credits)

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".
Subject-specific Extra Skills

(ECTS credits)

(Freier Bereich (general as well as subject-specific electives) -- subject specific)
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**Module coordinator**

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**Module coordinator**

| lecturer of lecture "Thermodynamik, Kinetik, Elektrochemie für Studierende der Biologie, Lebensmittelchemie and des Lehramtes Chemie GHR" |

**ECTS Method of grading**

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**Duration Module level**

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**Contents**

This module deals with basics of thermodynamics, kinetics and electrochemistry.

**Intended learning outcomes**

German intended learning outcomes available but not translated yet.


**Courses** (type, number of weekly contact hours, language — if other than German)

V + Ü (no information on SWS (weekly contact hours) and course language available)

**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 60 minutes)

**Allocation of places**

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**Additional information**

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**Referred to in LPO I** (examination regulations for teaching-degree programmes)

§ 42 (1) 1. Chemie "Allgemeine und Anorganische Chemie" und "Physikalische und Analytische Chemie"
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<td>Inorganic Chemistry of the Elements (teaching degree for secondary schools)</td>
<td>08-AC2-LAGY-102-m01</td>
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**Module coordinator**
lecturer of lecture "Festkörperchemie" (Solid State Chemistry)  
Institute of Inorganic Chemistry

**ECTS** | Method of grading | Only after succ. compl. of module(s) |
---|---|---|
3 | numerical grade | -- |

**Duration** | Module level | Other prerequisites |
---|---|---|
1 semester | undergraduate | -- |

**Contents**
German contents available but not translated yet.


**Intended learning outcomes**
German intended learning outcomes available but not translated yet.

Der/Die Studierende kann die Struktur und Eigenschaften von Metallen, Legierungen und salzartigen Verbindungen fachgerecht darstellen. Er/Sie ist in der Lage, diese zu systematisieren und in Bezug auf Struktur und Reaktivität zu charakterisieren.

**Courses**
V (no information on SWS (weekly contact hours) and course language available)

**Method of assessment**
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)

Language of assessment: German or English

**Allocation of places**
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**Additional information**
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**Referred to in LPO I**
(examination regulations for teaching-degree programmes)

§ 62 (1) 1. Chemie "Allgemeine und Anorganische Chemie"; "Physikalische und Analytische Chemie"
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<td>lecturers Organische Chemie (Organic Chemistry)</td>
<td>Institute of Organic Chemistry</td>
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## Contents

German contents available but not translated yet.


## Intended learning outcomes

German intended learning outcomes available but not translated yet.


## Courses

P (no information on SWS (weekly contact hours) and course language available)

## Method of assessment

pre/post-experiment examination talks (Vor-/Nachtestate, approx. 15 minutes each), log (approx. 5 to 10 pages)

Assessment offered: once a year, summer semester

Language of assessment: German or English

## Allocation of places

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## Additional information

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## Referred to in LPO I

(translation regulations for teaching-degree programmes)

§ 42 (1) 2. Chemie "Organische und Bioorganische Chemie"
Module title | Basic Mathematics (teaching degree) | Abbreviation | 08-PC-VKM-LA-102-m01

Module coordinator | lecturer of block course "Mathematik" (Mathematics)

Module offered by | Institute of Physical and Theoretical Chemistry

ECTS | Method of grading | Only after succ. compl. of module(s)
2 | (not) successfully completed | --

Duration | Module level | Other prerequisites
1 semester | undergraduate | --

Contents
German contents available but not translated yet.


Intended learning outcomes
German intended learning outcomes available but not translated yet.

Der/Die Studierende erlernt den Umgang mit mathematischen Methoden. Er/Sie ist in der Lage, diese auf konkrete Fragestellungen in der Chemie anzuwenden.

Courses (type, number of weekly contact hours, language — if other than German)
V + Ü (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — If not every semester, information on whether module is creditable for bonus)
exercises (4 work sheets)
Language of assessment: German or English

Allocation of places
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Additional information
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Referred to in LPO I (examination regulations for teaching-degree programmes)
--
Module title: Exercises in Experimental Presentation  
Abbreviation: 08-Ch-GH-ÜiV-092-m01

Module coordinator
Lecturers of the three lectures offered in this module

ECTS: 6  
Method of grading: Only after successfully completed module(s)

Duration: 1 semester  
Module level: Undergraduate

Module offered by: Faculty of Chemistry and Pharmacy

Contents

Im Rahmen dieses Moduls werden von den Studierenden Vorträge mit Demonstrationen auf verschiedenen Gebieten der Chemie konzipiert, vorbereitet und präsentiert.

Intended learning outcomes


Courses

This module comprises 3 module components. Information on courses will be listed separately for each module component.

- 08-Ch-LA-ÜiV-1-092: Ü (no information on SWS (weekly contact hours) and course language available)
- 08-Ch-LA-ÜiV-2-092: Ü (no information on SWS (weekly contact hours) and course language available)
- 08-Ch-GH-ÜiV-3-092: Ü (no information on SWS (weekly contact hours) and course language available)

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.

Assessment in module component 08-Ch-LA-ÜiV-1-092: Exercises in Experimental Presentation (Inorganic Chemistry)

- 2 ECTS, Method of grading: (not) successfully completed
- Talk with demonstrations (approx. 45 minutes)
- Assessment offered: once a year, winter semester
- Language of assessment: German or English

Assessment in module component 08-Ch-LA-ÜiV-2-092: Exercises in Experimental Presentation (Organic Chemistry)

- 2 ECTS, Method of grading: (not) successfully completed
- Talk with demonstrations (approx. 45 minutes)
- Assessment offered: once a year, winter semester
- Language of assessment: German or English

Assessment in module component 08-Ch-GH-ÜiV-3-092: Exercises in Experimental Presentation (Physical Chemistry) for Primary School and Secondary Public School Teachers

- 2 ECTS, Method of grading: (not) successfully completed
- Talk with demonstrations (approx. 45 minutes)
- Assessment offered: once a year, winter semester
- Language of assessment: German or English
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<table>
<thead>
<tr>
<th>Referred to in LPO I (examination regulations for teaching-degree programmes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>§ 42 (1) 3. Chemie &quot;Übungen im Vortragen mit Demonstrationen&quot;</td>
</tr>
<tr>
<td>Module title</td>
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<tr>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>Organic Chemistry 1 (teaching degree for secondary schools)</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Module coordinator</th>
<th>Module offered by</th>
</tr>
</thead>
<tbody>
<tr>
<td>holder of the Professorship of Organic Chemistry</td>
<td>Institute of Organic Chemistry</td>
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<tbody>
<tr>
<td>6</td>
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<thead>
<tr>
<th>Duration</th>
<th>Module level</th>
<th>Other prerequisites</th>
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</thead>
<tbody>
<tr>
<td>1 semester</td>
<td>undergraduate</td>
<td>Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).</td>
</tr>
</tbody>
</table>

**Contents**

German contents available but not translated yet.

Das Modul bietet einen Überblick über die elementaren Grundkenntnisse der organischen Chemie. Dazu wird die Bindungssituation am Kohlenstoff betrachtet und in die Nomenklatur einfacher und mäßig komplexer organischer Verbindungen eingeführt. Es werden Grundlagen der Stereochemie, Substitutions-, Additions- und Eliminierungsreaktionen sowie der Syntheseplanung vermittelt.

**Intended learning outcomes**

German intended learning outcomes available but not translated yet.


**Courses**

(type, number of weekly contact hours, language — if other than German)

V + Ü (no information on SWS (weekly contact hours) and course language available)

**Method of assessment**

(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)

Language of assessment: German or English

**Allocation of places**

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**Additional information**

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**Referred to in LPO I**

(examination regulations for teaching-degree programmes)

§ 42 (1) 2. Chemie "Organische und Bioorganische Chemie"
### Module title
Organic Chemistry 2 (teaching degree for secondary schools)

<table>
<thead>
<tr>
<th>Abbreviation</th>
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<tr>
<td>o8-OC2-GHR-092-m01</td>
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### Module coordinator
holder of the Chair of Physically Organic Chemistry

### Module offered by
Institute of Organic Chemistry

### ECTS
7

### Method of grading
numerical grade

### Only after succ. compl. of module(s)
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### Duration
1 semester

### Module level
undergraduate

### Other prerequisites
Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).

### Contents
German contents available but not translated yet.


### Intended learning outcomes
German intended learning outcomes available but not translated yet.


### Courses
V + Ü (no information on SWS (weekly contact hours) and course language available)

### Method of assessment
(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: approx. 60 or 90 minutes each; 3 written examinations: approx. 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)

Language of assessment: German or English

### Allocation of places
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### Additional information
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### Referred to in LPO I (examination regulations for teaching-degree programmes)
§ 42 (1) 2. Chemie "Organische und Bioorganische Chemie"
### Module title

**Biochemistry (teaching degree for secondary schools)**

<table>
<thead>
<tr>
<th>Module title</th>
<th>Abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry (teaching degree for secondary schools)</td>
<td>08-BC-GHR-092-m01</td>
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</table>

### Module coordinator

holder of the Chair of Biochemistry

### Module offered by

Chair of Biochemistry

### ECTS

<table>
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<th>ECTS</th>
<th>Method of grading</th>
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### Duration

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<thead>
<tr>
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</tr>
</tbody>
</table>

### Intended learning outcomes

The module imparts the basic knowledge of biochemistry by lectures and in-depth tutorials.

### Courses

(V + Ü (no information on SWS (weekly contact hours) and course language available)

**V + Ü** (type, number of weekly contact hours, language — if other than German)

1 semester

### Method of assessment

(a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)

Language of assessment: German or English
<table>
<thead>
<tr>
<th>Module title</th>
<th>Abbreviation</th>
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</thead>
<tbody>
<tr>
<td>Guidance in Self-reliant Scientific Work</td>
<td>o8-FD-WPF-WA-092-m01</td>
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</table>

<table>
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<tr>
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<tbody>
<tr>
<td>holder of the Professorship of Didactics of Chemistry</td>
<td>Institute of Inorganic Chemistry</td>
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<th>Duration</th>
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<th>Other prerequisites</th>
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<td>undergraduate</td>
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**Contents**

German contents available but not translated yet.

Anleitung zum selbständigen wissenschaftlichen Arbeiten.

**Intended learning outcomes**

German intended learning outcomes available but not translated yet.

Der/Die Studierende ist in der Lage, ausgewählte Themenstellungen auf dem Gebiet der Chemiedidaktik auf wissenschaftlicher Basis selbständig zu bearbeiten. Dabei werden neben der Widerspiegelung des aktuellen Forschungsstandes Ansätze zur dynamischen Weiterentwicklung erarbeitet.

**Courses** (type, number of weekly contact hours, language — if other than German)

S (no information on SWS (weekly contact hours) and course language available)

**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

presentation (approx. 30 minutes)

Language of assessment: German or English

**Allocation of places**

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**Additional information**

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**Referred to in LPO I** (examination regulations for teaching-degree programmes)

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<table>
<thead>
<tr>
<th>Module title</th>
<th>Abbreviation</th>
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<tbody>
<tr>
<td>Preparation of Exams (Primary and Secondary Public Scholl Teachers)</td>
<td>08-FD-WPF-PVGS-092-m01</td>
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<td>undergraduate</td>
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**Contents**

German contents available but not translated yet.

Bearbeitung ausgewählter Staatsexamensthemen.

**Intended learning outcomes**

The student is able to solve selected state examination issues of the previous years.

**Courses** (type, number of weekly contact hours, language — if other than German)

S (no information on SWS (weekly contact hours) and course language available)

**Method of assessment** (type, scope, language — if other than German, examination offered — If not every semester, information on whether module is creditable for bonus)

written examination (approx. 30 minutes)

**Allocation of places**

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**Additional information**

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**Referred to in LPO I** (examination regulations for teaching-degree programmes)

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<table>
<thead>
<tr>
<th>Module title</th>
<th>Abbreviation</th>
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<tbody>
<tr>
<td>Extracurricular Sites</td>
<td>08-FD-WPF-LLL-092-m01</td>
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**Module coordinator**

holder of the Professorship of Didactics of Chemistry

**Module offered by**

Institute of Inorganic Chemistry

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<tr>
<td>4</td>
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</table>

**Duration**

1 semester

**Module level**

undergraduate

**Other prerequisites**

--

**Contents**

German contents available but not translated yet.

Das Modul behandelt Möglichkeiten und Grenzen der Einbeziehung außerschulischer Lernorte in den Chemieunterricht.

**Intended learning outcomes**

German intended learning outcomes available but not translated yet.

Der/Die Studierende ist in der Lage, außerschulische Lernorte, insbesondere Arbeiten in Schülerlaboren, ziel führend in die Planung von Chemieunterricht einzubie­ziehen. Er/Sie kann diese Planungen in Schüler­versuchen und deren aktive Betreuung umsetzen.

**Courses** (type, number of weekly contact hours, language — if other than German)

This module comprises 2 module components. Information on courses will be listed separately for each module component.

- 08-FD-WPF-LLL-1-092: S (no information on SWS (weekly contact hours) and course language available)
- 08-FD-WPF-LLL-2-092: P (no information on SWS (weekly contact hours) and course language available)

**Method of assessment** (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

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.

**Assessment in module component 08-FD-WPF-LLL-1-092: Opportunities of Extracurricular Sites**

- 2 ECTS, Method of grading: (not) successfully completed
- presentation of a project (approx. 30 minutes)
- Language of assessment: German or English

**Assessment in module component 08-FD-WPF-LLL-2-092: School Lab**

- 2 ECTS, Method of grading: (not) successfully completed
- successful supervision of experiments in learn-teach-lab
- Language of assessment: German or English

**Allocation of places**

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**Additional information**

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**Referred to in LPO I** (examination regulations for teaching-degree programmes)

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Module title | Abbreviation
---|---
Inorganic Chemistry 1 (teaching degree) | 08-AC1-LA-102-m01

Module coordinator | Module offered by
lecturer of lecture "Experimentalchemie" (Experimental Chemistry) | Institute of Inorganic Chemistry

ECTS | Method of grading | Only after succ. compl. of module(s)
---|---|---
20 | numerical grade | --

Duration | Module level | Other prerequisites
---|---|---
1 semester | undergraduate | By way of exception, additional prerequisites are listed in the section on assessments.

Contents

German contents available but not translated yet.


Intended learning outcomes

German intended learning outcomes available but not translated yet.


Courses

This module comprises 3 module components. Information on courses will be listed separately for each module component.

- 08-AC1-1-102: V + V + Ü (no information on SWS (weekly contact hours) and course language available)
- 08-AC1-LA-2-102: P (no information on SWS (weekly contact hours) and course language available)
- 08-AC1-LA-3-102: V (no information on SWS (weekly contact hours) and course language available)

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.


- 10 ECTS, Method of grading: numerical grade
- a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)
- Language of assessment: German or English
Other prerequisites: Admission prerequisite to assessment: successful completion of exercises in the respective classes as specified at the beginning of the course (usually 70% of exercises to be successfully completed) as well as regular attendance of exercises (usually a maximum of 2 incidents of unexcused absence).

Assessment in module component 08-AC1-LA-2-102: Inorganic and Analytical Chemistry (lab) (teaching degree)
- 7 ECTS, Method of grading: (not) successfully completed
- pre/post-experiment examination talks (Vor-/Nachtestate, approx. 15 minutes each), log (approx. 5 to 10 pages)
- Assessment offered: once a year, summer semester
- Language of assessment: German or English

Assessment in module component 08-AC1-LA-3-102: Inorganic Chemistry 1 (accompanying lecture) (teaching degree)
- 3 ECTS, Method of grading: numerical grade
- a) 1 to 3 written examinations (1 written examination: approx. 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination of one candidate each (approx. 20 minutes) or c) oral examination in groups (groups of 2, approx. 30 minutes)
- Language of assessment: German or English

Allocation of places
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Additional information
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Referred to in LPO I (examination regulations for teaching-degree programmes)
§ 42 (1) 1. Chemie "Allgemeine und Anorganische Chemie" und "Physikalische und Analytische Chemie"
§ 62 (1) 1. Chemie "Allgemeine und Anorganische Chemie"; "Physikalische und Analytische Chemie"
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.