Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Chemistry as a Bachelor's with 1 major with the Degree (180 ECTS credits)

Responsible: Faculty of Chemistry and Pharmacy

Examination regulations version: 2008

Abbreviations used:
- Course types: E = field trip, K = colloquium, O = conversatorium, P = placement/lab course, R = project, S = seminar, T = tutorial, Ü = exercise, V = lecture
- Term: SS = summer semester, WS = winter semester
- Methods of grading: NUM = numerical grade, B/NB = (not) successfully completed
- Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB = list of modules
- Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s)

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

Information on assessment procedures:
- Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the method of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the customary manner.
- Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.
- Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all individual assessments.
In accordance with the general regulations governing the degree subject described in this module catalogue:

**ASPO2007**

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

**17-Nov-2009 (2008-34)**

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

Every module will be described using the following form:

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Module title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECTS</td>
<td>Duration (in semesters)</td>
</tr>
<tr>
<td>Courses</td>
<td>To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y</td>
</tr>
<tr>
<td>Method of assessment</td>
<td></td>
</tr>
<tr>
<td>Only after successful completion of</td>
<td>if applicable</td>
</tr>
<tr>
<td>Other prerequisites</td>
<td>if applicable</td>
</tr>
<tr>
<td>Participants and allocation of places</td>
<td>if applicable</td>
</tr>
<tr>
<td>Additional information</td>
<td>if applicable</td>
</tr>
<tr>
<td>Referred to in LPO I</td>
<td>if applicable (examination regulations for teaching-degree programmes)</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
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</tr>
<tr>
<td>08-AC2-072-m01</td>
<td>Inorganic Chemistry 2</td>
</tr>
<tr>
<td>08-AC3-072-m01</td>
<td>Inorganic Chemistry 3</td>
</tr>
<tr>
<td>08-OC1-072-m01</td>
<td>Organic Chemistry 1</td>
</tr>
<tr>
<td>08-OC2-072-m01</td>
<td>Organic Chemistry 2</td>
</tr>
</tbody>
</table>

### Inorganic Chemistry 2
- **ECTS:** 6
- **Duration:** 1 semester
- **Method of Grading:** numerical grade
- **Modul Level:** undergraduate
- **Courses:**
  - V (no information on SWS (weekly contact hours) and course language available)
- **Method of assessment:**
  - a) 1 to 3 written examinations (1 written examination: 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination in groups (groups of 2, approx. 30 minutes)

### Inorganic Chemistry 3
- **ECTS:** 9
- **Duration:** 1 semester
- **Method of Grading:** numerical grade
- **Modul Level:** undergraduate
- **Courses:**
  - This module comprises 2 module components. Information on courses will be listed separately for each module component.
  - 08-AC3-1-072: V + Ü (no information on SWS (weekly contact hours) and course language available)
  - 08-AC3-2-072: P (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-AC3-1-072:** Elemental Organic Chemistry
    - 4 ECTS, Method of grading: numerical grade
    - a) 1 to 3 written examinations (1 written examination: 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)
  - **Assessment in module component 08-AC3-2-072:** Inorganic Chemistry 2 (lab)
    - 5 ECTS, Method of grading: (not) successfully completed
    - Vortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance, Nachtestate (post-experiment exams, approx. 15 minutes each)
    - Assessment offered: once a year, winter semester

### Organic Chemistry 1
- **ECTS:** 5
- **Duration:** 1 semester
- **Method of Grading:** numerical grade
- **Modul Level:** undergraduate
- **Courses:**
  - V + Ü (no information on SWS (weekly contact hours) and course language available)
- **Method of assessment:** written examination (90 minutes)

### Organic Chemistry 2
- **ECTS:** 9
- **Duration:** 1 semester
- **Method of Grading:** numerical grade
- **Modul Level:** undergraduate
- **Courses:**
  - V + Ü + V (no information on SWS (weekly contact hours) and course language available)
- **Method of assessment:**
  - a) 1 to 3 written examinations (1 written examination: 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination in groups (groups of 2, approx. 30 minutes)
<table>
<thead>
<tr>
<th>Module Number</th>
<th>Course Details</th>
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</table>
| 08-OC3-072-m01 | **Organic Chemistry 3**  
ECTS: 15  
Duration: 1 semester  
Method of grading: numerical grade  
Modul level: undergraduate  
**Courses**  
This module comprises 2 module components. Information on courses will be listed separately for each module component.  
- 08-OC3-1-072: V + Ü (no information on SWS (weekly contact hours) and course language available)  
- 08-OC3-2-072: P (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-OC3-1-072:** Organic Chemistry 3  
  - 6 ECTS, Method of grading: numerical grade  
  - a) 1 to 3 written examinations (1 written examination: 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)  
- **Assessment in module component 08-OC3-2-072:** Organic Chemistry - lab 1  
  - 9 ECTS, Method of grading: (not) successfully completed  
  - Vortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance, Nachtestate (post-experiment exams, approx. 15 minutes each)  

| 08-OC4-072-m01 | **Organic Chemistry 4**  
ECTS: 10  
Duration: 1 semester  
Method of grading: numerical grade  
Modul level: undergraduate  
**Courses**  
This module comprises 2 module components. Information on courses will be listed separately for each module component.  
- 08-OC4-1-072: V + Ü (no information on SWS (weekly contact hours) and course language available)  
- 08-OC4-2-072: P (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-OC4-1-072:** Organic Chemistry 4  
  - 5 ECTS, Method of grading: numerical grade  
  - written examination (90 minutes)  
  - Other prerequisites: Registration for assessment: Yes, as specified.  
- **Assessment in module component 08-OC4-2-072:** Organic Chemistry - advanced laboratory course for students of chemistry  
  - 5 ECTS, Method of grading: (not) successfully completed  
  - Vortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance, Nachtestate (post-experiment exams, approx. 15 minutes each)  
  - Assessment offered: once a year, winter semester  

| 08-PC1-072-m01 | **Principles of quantum mechanics and spectroscopy**  
ECTS: 8  
Duration: 1 semester  
Method of grading: numerical grade  
Modul level: undergraduate  
**Courses**  
V + Ü + V + Ü (no information on SWS (weekly contact hours) and course language available)  
**Method of assessment**  
a) 1 to 3 written examinations (1 written examination: 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination in groups (groups of 2, approx. 30 minutes)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>ECTS</th>
<th>Duration</th>
<th>Method of Grading</th>
<th>Modul Level</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>08-PC2-072-m01</td>
<td><strong>Physical Chemistry 2</strong></td>
<td>18</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
<td>This module comprises 2 module components. Information on courses will be listed separately for each module component. Courses: 08-PC2-1-072: V + Ü (no information on SWS (weekly contact hours) and course language available) 08-PC2-2-072: P (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-PC2-1-072: Thermodynamics, Kinetics, Electrochemistry Thermodynamics, Kinetics, Electrochemistry 9 ECTS, Method of grading: numerical grade written examination (90 minutes) Other prerequisites: Registration for assessment: Yes, as specified. Assessment in module component 08-PC2-2-072: Physical Chemistry (lab) 9 ECTS, Method of grading: (not) successfully completed Vortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance, Nachtestate (post-experiment exams, approx. 15 minutes each) Assessment offered: once a year, winter semester</td>
</tr>
<tr>
<td>08-PC4-072-m01</td>
<td><strong>Physical Chemistry 4: Statistical Thermodynamics</strong></td>
<td>3</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
<td></td>
</tr>
<tr>
<td>08-BC-072-m01</td>
<td><strong>Biochemistry</strong></td>
<td>6</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
<td></td>
</tr>
</tbody>
</table>

Other prerequisites: By way of exception, additional prerequisites are listed in the section on assessments.
<table>
<thead>
<tr>
<th>ECTS</th>
<th>Duration</th>
<th>Method of grading</th>
<th>Modul level</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
</tr>
</tbody>
</table>

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

- **10-M-MCB-1-072**: V (no information on SWS (weekly contact hours) and course language available)
- **10-M-MCB-2-072**: 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 10-M-MCB-1-072**: Mathematics for students in Chemistry and Biology
- 3 ECTS, Method of grading: numerical grade
- written examination (120 minutes)

**Assessment in module component 10-M-MCB-2-072**: Exercises in Mathematics for students in Chemistry and Biology
- 2 ECTS, Method of grading: (not) successfully completed
- exercises (to be submitted on a weekly basis, written examination)

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<table>
<thead>
<tr>
<th>ECTS</th>
<th>Duration</th>
<th>Method of grading</th>
<th>Modul level</th>
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</thead>
<tbody>
<tr>
<td>7</td>
<td>2 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
</tr>
</tbody>
</table>

**Courses**

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

**Method of assessment**

written examination (approx. 120 minutes)

**Participants and allocation of places**

Only as part of pool of general key skills (ASQ): 10 places. Places will be allocated by lot.

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<table>
<thead>
<tr>
<th>ECTS</th>
<th>Duration</th>
<th>Method of grading</th>
<th>Modul level</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1 semester</td>
<td>(not) successfully completed</td>
<td>undergraduate</td>
</tr>
</tbody>
</table>

**Courses**

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

**Method of assessment**

a) oral test (approx. 15 minutes) during experiment and b) ungraded written examination (approx. 90 minutes)

**Participants and allocation of places**

Only as part of pool of general key skills (ASQ): 10 places. Places will be allocated by lot.

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<table>
<thead>
<tr>
<th>ECTS</th>
<th>Duration</th>
<th>Method of grading</th>
<th>Modul level</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
</tr>
</tbody>
</table>

**Courses**

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

**Method of assessment**

written examination (90 minutes)

**other prerequisites**

Registration for assessment: Yes, as specified.

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<table>
<thead>
<tr>
<th>ECTS</th>
<th>Duration</th>
<th>Method of grading</th>
<th>Modul level</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
</tr>
</tbody>
</table>

**Courses**

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

**Method of assessment**

a) 1 to 3 written examinations (1 written examination: 90 minutes; 2 written examinations: 60 or 90 minutes each; 3 written examinations: 60 minutes each) or b) oral examination in groups (groups of 2, approx. 30 minutes)
### Inorganic Chemistry 1

<table>
<thead>
<tr>
<th>ECTS</th>
<th>Duration</th>
<th>Method of grading</th>
<th>Modul level</th>
</tr>
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<tbody>
<tr>
<td>21</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
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</tbody>
</table>

#### Courses
- 08-AC1-1-072: V + V + Ü (no information on SWS (weekly contact hours) and course language available)
- 08-AC1-2-072: P (no information on SWS (weekly contact hours) and course language available)
- 08-AC1-3-082: 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.

**Assessment in module component 08-AC1-1-072: Principles of Inorganic Chemistry**
- 10 ECTS, Method of grading: numerical grade
  - a) 1 to 3 written examinations (1 written examination: 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)

**Assessment in module component 08-AC1-2-072: Inorganic Chemistry 1 (lab)**
- 7 ECTS, Method of grading: (not) successfully completed
  - Vortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance, Nachtestate (post-experiment exams, approx. 15 minutes each)
  - Assessment offered: once a year, winter semester

**Assessment in module component 08-AC1-3-082: Inorganic Chemistry 1 (lab accompanying lecture)**
- 4 ECTS, Method of grading: numerical grade
  - 3 written examinations (45 minutes each), weighted 1:1:1, dates to be announced

### Analytical Chemistry 1

<table>
<thead>
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<th>ECTS</th>
<th>Duration</th>
<th>Method of grading</th>
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<tbody>
<tr>
<td>11</td>
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<td>undergraduate</td>
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</tbody>
</table>

#### Courses
- 08-AN1-2-072: P (no information on SWS (weekly contact hours) and course language available)
- 08-AN1-1-082: Ü + 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.

**Assessment in module component 08-AN1-2-072: Analytical Chemistry (lab)**
- 6 ECTS, Method of grading: (not) successfully completed
  - Vortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance, Nachtestate (post-experiment exams, approx. 15 minutes each)
  - Assessment offered: once a year, summer semester

**Assessment in module component 08-AN1-1-082: Principles of Analytical Chemistry**
- 5 ECTS, Method of grading: numerical grade
  - a) 1 to 3 written examinations (1 written examination: 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)
### Compulsory Electives (5 ECTS credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
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<th>Duration</th>
<th>Method of grading</th>
<th>Modul level</th>
<th>Other Prerequisites</th>
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<tbody>
<tr>
<td>08-PS3-072-m01</td>
<td><strong>Applied Spectroscopy 3</strong></td>
<td>5</td>
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<td>Courses</td>
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<td>written examination (60 minutes)</td>
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<table>
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<tr>
<th>Code</th>
<th>Course Name</th>
<th>ECTS</th>
<th>Duration</th>
<th>Method of grading</th>
<th>Modul level</th>
<th>Other Prerequisites</th>
</tr>
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<tbody>
<tr>
<td>08-PKC-072-m01</td>
<td><strong>Programming course for Chemistry Majors</strong></td>
<td>5</td>
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<td></td>
<td>Courses</td>
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<td></td>
<td>Method of assessment</td>
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<td>practical examination: completion of programming exercises</td>
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<th>Other Prerequisites</th>
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<tbody>
<tr>
<td>08-BCP-072-m01</td>
<td><strong>Biochemistry Lab</strong></td>
<td>5</td>
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<td>Method of assessment</td>
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<td>Vortestate (pre-experiment exams, approx. 15 minutes each), assessment of practical performance (log approx. 5 to 10 pages), Nachtestate (post-experiment exams, approx. 15 minutes each)</td>
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### Thesis (10 ECTS credits)

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<tr>
<td>08-BA-072-m01</td>
<td><strong>Bachelor Thesis</strong></td>
<td>10</td>
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<td>Language of assessment</td>
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<td>German or English</td>
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<td></td>
<td>Other Prerequisites</td>
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<td>Registration for assessment on a continuous basis as agreed upon with supervisor. Topic to be selected in consultation with supervisor. Topic to be assigned by examination committee (Section 21 Subsection 3 ASPO (general academic and examination regulations)).</td>
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### Subject-specific Key Skills (10 ECTS credits)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>ECTS</th>
<th>Duration</th>
<th>Method of grading</th>
<th>Modul level</th>
<th>Other Prerequisites</th>
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<tbody>
<tr>
<td>08-VP-072-m01</td>
<td><strong>Advanced laboratory course</strong></td>
<td>5</td>
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<td>Courses</td>
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<td>P (no information on SWS (weekly contact hours) and course language available)</td>
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<tr>
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<td>Method of assessment</td>
<td></td>
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<td>talk (approx. 15 minutes)</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
<th>ECTS</th>
<th>Duration</th>
<th>Method of grading</th>
<th>Modul level</th>
<th>Other Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>03-TR-072-m01</td>
<td><strong>Toxicology and legal studies</strong></td>
<td>3</td>
<td>1 semester</td>
<td>numerical grade</td>
<td>undergraduate</td>
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<td></td>
<td>Courses</td>
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<td></td>
<td>V + V (no information on SWS (weekly contact hours) and course language available)</td>
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</tr>
<tr>
<td></td>
<td>Method of assessment</td>
<td></td>
<td></td>
<td>written examination (approx. 90 minutes)</td>
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<td>Code</td>
<td>Literature research methods</td>
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| 08-LRAC-072-m01 | **ECTS**: 1  
Duration: 1 semester  
Method of grading: (not) successfully completed  
Modul level: undergraduate  
Courses: Ü (no information on SWS (weekly contact hours) and course language available)  
Method of assessment: 2 literature searches about given preparations |
| 08-LROC-072-m01 | **ECTS**: 1  
Duration: 1 semester  
Method of grading: (not) successfully completed  
Modul level: undergraduate  
Courses: Ü (no information on SWS (weekly contact hours) and course language available)  
Method of assessment: 1 literature search about given preparations |