Module Catalogue
for the Subject

FOKUS Pharmacy

as a Master’s with 1 major

with the degree "Master of Science"

(60 ECTS credits)

Examination regulations version: 2012
Responsible: Faculty of Chemistry and Pharmacy
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JMU Würzburg • generated 17-Sep-2019 • exam. reg. data record Master (60 ECTS) FOKUS Pharmazie - 2012 page 2 / 29
The subject is divided into

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Content and Objectives of the Programme

no translation available
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:

ASPO2009

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

11-Sep-2012 (2012-152)

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 Electives
(30 ECTS credits)
Subfield Lab Courses
(10 ECTS credits)
<table>
<thead>
<tr>
<th>Module title</th>
<th>Abbreviation</th>
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<tbody>
<tr>
<td>Pharmaceutical Biology (Practical Course and Seminar 1)</td>
<td>07-MS3PBF1-102-m01</td>
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<thead>
<tr>
<th>Module coordinator</th>
<th>Module offered by</th>
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<tr>
<td>holder of the Chair of Pharmaceutical Biology</td>
<td>Faculty of Biology</td>
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<tr>
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Contents

All organisms are able to reprogram their metabolism in response to various endogenous or exogenous perturbations. Reprogramming of metabolism is often correlated to phenotypic changes e.g. in disease development, physiology or behaviour. At the Chair of Pharmaceutical Biology, we apply metabolomics for gene function- or stress response analysis. Students can choose a topic from the variety of ongoing projects. Depending on the scientific question addressed by the research team at the Chair, the methodological approach involves techniques in the field of metabolomics/bioanalytics and/or molecular biology. In this module, students will be trained to use quantitative metabolite analysis methods (chromatography, mass spectrometry) and apply advanced molecular biology techniques. Depending on the project, different model organisms are studied. Prior knowledge in metabolite analysis or mass spectrometry is not required. Current scientific questions in the life sciences form the basis to impart scientific concepts and to train students in the laboratory. The module involves the experimental design, realisation and critical evaluation of scientific experiments as well as the documentation and presentation of the progress. More information is available on request or can be found at http://www.pbio.biocentrum.uni-wuerzburg.de/.

Intended learning outcomes

Students will be trained in using specific molecular biology methods and/or metabolomics approaches to address scientific questions, in the documentation of experimental procedures and results, and in the interpretation of data.

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

P + 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)

Students will be informed about the length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (approx. 10 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (20 to 45 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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<tr>
<td>Practical course medicinal chemistry</td>
<td>08-MCM1-102-m01</td>
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<th>Module offered by</th>
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<tbody>
<tr>
<td>Pharmazeutische Chemie (Pharmaceutical Chemistry)</td>
<td>Institute of Pharmacy and Food Chemistry</td>
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### Contents

German contents available but not translated yet.

Ausgewählte Methoden und Themen der Medizinischen Chemie (Synthese, Testung, Analytik, Theorie, Pharmakokinetik).

### Intended learning outcomes

German intended learning outcomes available but not translated yet.

Der/Die Studierende verfügt über Kenntnisse der Medizinischen Chemie und kann die Inhalte in praktischen Versuchen anwenden.

### Courses

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

### Method of assessment

Vortestate (pre-experiment exams) and Nachtestate (post-experiment exams) (approx. 20 minutes), assessment of practical performance, written report (approx. 30 to 50 pages)

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 Catalogue for the Subject FOKUS Pharmacy

### Master's with 1 major, 60 ECTS credits

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<th>Module title</th>
<th>Abbreviation</th>
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<td>Practical research course pharmaceutical technology</td>
<td>08-PTF1-122-m01</td>
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<th>Module offered by</th>
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<tr>
<td>degree programme coordinator FOKUS Pharmazie (Pharmacy)</td>
<td>Institute of Pharmacy and Food Chemistry</td>
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### Contents

The module provides practical skills in the field pharmaceutical technological research.

### Intended learning outcomes

German intended learning outcomes available but not translated yet.

Der/Die Studierende verfügt über praktische Fertigkeiten im Bereich der Pharmazeutisch-Technologischen Forschung.

### Courses

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

### Method of assessment

Vortestate (pre-experiment exams) and Nachtestate (post-experiment exams) (approx. 20 minutes), assessment of practical performance, written report (approx. 30 to 50 pages)

Language of assessment: German or English

### Allocation of places

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### Additional information

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### Referred to in LPO 1

(examination regulations for teaching-degree programmes)

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<td>Practical course &quot;Structural Biology&quot; for advanced</td>
<td>08-BCFP-VPSB-102-m01</td>
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<tr>
<td>holder of the Chair of Biochemistry</td>
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**Contents**

German contents available but not translated yet.

Das Modul beschäftigt sich mit der Frage nach Klonierung und Expression von Proteinkonstrukten für die Kristallisation. Es vermittelt die Grundlagen und Techniken der Kristallisation und Kristalloptimierung sowie der Kristallografischen Datensammlung.

**Intended learning outcomes**

German intended learning outcomes available but not translated yet.

Der/Die Studierende erwirbt ein Grundverständnis für die Herangehensweise bei der Wahl von Proteinkonstrukten für die Kristallisation. Er/Sie beherrscht nach Besuch der Modulveranstaltungen die grundlegenden Fertigkeiten und Techniken der Proteinkristallisation und Datensammlung/-verarbeitung.

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

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)

log (approx. 20 pages) and talk (approx. 15 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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<th>Module title</th>
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<td>Practical course Molecular Machines for advanced students</td>
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**Contents**

German contents available but not translated yet.

Das Modul ermöglicht ein vertieftes Einarbeiten in ein Forschungsthema. Ausgewählte Methoden und Themen der Molekularbiologie und Biochemie; Klonierung, Mutagenese, Proteinexpression und -aufreinigung, RNA-Protein und Protein-Protein Interaktionsstudien, Isolierung und funktionelle Analyse von makromolekularen Komplexen.

**Intended learning outcomes**

The student is able to deeply acquaint himself/herself with a specific research topic, and to present the results in a talk.

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

- 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)

- log (approx. 20 pages) and talk (approx. 15 minutes)

Language of assessment: German or English

**Allocation of places**

- --

**Additional information**

- --

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

- --
Subfield Theoretical Courses

(15-20 ECTS credits)
Module title | Abbreviation
---|---
Bioinorganic Chemistry | 08-ACM2-102-m01

Module coordinator | Module offered by
---|---
Lecturer of seminar "Anorganische Aspekte der Biochemie and Medizinischen Chemie" (Inorganic Aspects of Biochemistry and Medicinal Chemistry) | Institute of Inorganic Chemistry

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

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

Contents

German contents available but not translated yet.

Das Modul führt in die Grundlagen der Bioanorganischen Chemie (BIC) ein. Es werden die Methoden der BIC, Struktur und Wirkungsweise Metall-haltiger Enzyme sowie Anwendungen der BIC als Diagnostika und Therapeutika behandelt.

Intended learning outcomes

German intended learning outcomes available but not translated yet.


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)

a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course.

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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<tr>
<td>Modern Synthetic Method</td>
<td>08-OCM-SYNT-102-m01</td>
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**Module coordinator**
Lecturer of the seminar

**Module offered by**
Institute of Organic Chemistry

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**Duration**
1 semester

**Module level**
graduate

**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.

Das Modul behandelt moderne stereoselektive Synthesemethoden. Schwerpunkt sind ausgewählte Totalsynthesen, Organometallchemie und Katalyse.

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

Die Studierenden sind in der Lage, anspruchsvolle chemische Synthesen stereoselektiv zu planen sowie stereochemisch zu analysieren. Er/Sie kann Totalsynthesen erklären. Er/Sie kann Aspekte der Organometallchemie und Katalyse in der Syntheschemie darstellen.

**Courses**
S + 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 (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course.

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>
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<th>Module title</th>
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<tr>
<td>Modern Aspects of Natural Product Chemistry and Biological Chemistry</td>
<td>08-OCM-NAT-102-m01</td>
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<tr>
<td>lecturer of the seminar</td>
<td>Institute of Organic Chemistry</td>
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<td>1 semester</td>
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### Contents

German contents available but not translated yet.

Das Modul behandelt spezielle Themen der Naturstoffchemie und Biologischer Chemie.

### Intended learning outcomes

German intended learning outcomes available but not translated yet.

Die Studierenden können spezifische Themen der Naturstoffchemie und Biologischer Chemie erklären.

### Courses

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

### Method of assessment

a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course.

Language of assessment: German or English

### Allocation of places

Chemistry Master's: no restrictions. Biochemistry Master's: 20 places. Places will be allocated by lot.

### 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>
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<tr>
<td>Organo- and Biocatalysis</td>
<td>08-HKM1-102-m01</td>
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**Module coordinator**  
Lecturer of the seminar "Organo- and Biokatalyse"  
Institute of Organic Chemistry

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

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

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


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


**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)
a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course.

Language of assessment: German or English

**Allocation of places**
--

**Additional information**
--

**Referred to in LPO I** (examination regulations for teaching-degree programmes)
--
## Module title
Bioorganic Chemistry

### Abbreviation
08-SCM3-102-m01

### Module coordinator
Lecturer of lecture "Bioorganische Chemie" (Bioorganic Chemistry)

### Module offered by
Institute of Organic Chemistry

### ECTS
5

### Duration
1 semester

### Module level
Graduate

### Other prerequisites
--

###Contents

German contents available but not translated yet.


### Intended learning outcomes

German intended learning outcomes available but not translated yet.


### Courses

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

### Method of assessment

a) 1 to 3 written examinations (60 or 90 minutes) or b) oral examination of one candidate each (20 minutes) or c) oral examination in groups (groups of 2, 30 minutes). Should there be the option to choose between several methods of assessment, the module coordinator will choose the method to be used for the module component in the current semester at the beginning of the course.

Language of assessment: German or English

### Allocation of places

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### Additional information

--

### Referred to in LPO 1

(examination regulations for teaching-degree programmes)

--
Module title
Theoretical Chemistry

Abbreviation
08-TCM1-102-m01

Module coordinator
Lecturer of lecture "Theoretische Chemie"

Module offered by
Institute of Physical and Theoretical Chemistry

ECTS
5

Method of grading
numerical grade

Duration
1 semester

Module level
graduate

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
The module introduces students to theoretical chemistry.

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

Die Studierenden können mathematische und physikalische Grundlagen quantenchemischer und quantendynamischer Ansätze der Theoretischen Chemie darstellen.

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

Method of assessment
written examination (90 minutes)
Language of assessment: German or English

Allocation of places
--

Additional information
--

Referred to in LPO 1 (examination regulations for teaching-degree programmes)
--
Module title
Principles of drug design

Abbreviation
08-MCM3-102-m01

Module coordinator
lecturers Pharmazeutische Chemie (Pharmaceutical Chemistry)

Module offered by
Institute of Pharmacy and Food Chemistry

ECTS
5

Method of grading
numerical grade

Only after succ. compl. of module(s)
--

Duration
1 semester

Module level
graduate

Other prerequisites
--

Contents
German contents available but not translated yet.


Intended learning outcomes
The student masters theoretical and experimental methods and aspects of drug design.

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

Method of assessment
presentation with discussion (approx. 30 minutes)

Language of assessment: German or English

Allocation of places
Chemistry Master's and Mathematics Master's: no restrictions. Biochemistry Master's: 10 places. Places will be allocated by lot.

Additional information
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Referred to in LPO I (examination regulations for teaching-degree programmes)
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### Module title
Current Methods in Plant Biology (Lecture)

### Abbreviation
07-MS3-112-m01

### Module coordinator
holder of the Chair of Plant Physiology and Biophysics

### Module offered by
Faculty of Biology

### ECTS
10

### Method of grading
numerical grade

### Duration
1 semester

### Module level
graduate

### Other prerequisites
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### Contents
This lecture addresses topics of pathogen recognition and signal transduction in plants, molecular and organismic defence and the pharmaceutical relevance of plant-derived bioactive compounds. Plant immunobiology: interactions between plants and pathogens comprise evolutionary dynamic and complex systems. Different strategies of the pathogens - bacteria, fungi and viruses - as well as defence mechanisms of the host plants will be discussed. The molecular mechanisms of pathogen recognition, signal transduction, regulation of gene expression and activation of local and systemic defence responses are in the focus of this lecture. Differences and similarities between plant and human immune systems will be pointed out. Understanding plant-pathogen-interactions and molecular mechanisms determining susceptibility and defence is fundamental for the development of strategies in plant protection. Evolution, function and pharmaceutical relevance of plant secondary metabolites: Secondary metabolites are part of effective plant defence strategies against microorganisms and herbivores and are often essential for survival. The evolution of secondary metabolism will be discussed and general as well as specific defence strategies will be explained. Pharmacological mechanisms of action and molecular targets of important classes of plant bioactive compounds will be presented. A high proportion of currently used drugs have been developed from plant secondary metabolites that have been used as lead structures to generate potent drugs with improved pharmaceutical properties. Examples of therapies with very potent plant pharmaceuticals (evidence-based medicine) as well as possibilities and limitations of phytotherapy (traditional medicine) will be discussed.

### Intended learning outcomes
The students are qualified to perform and organize their scientific laboratory work independently and document the obtained results. They are able to design a research project and are prepared to work on a scientific question for their thesis.

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

### Method of assessment
Students will be informed about the method, length and scope of the assessment prior to the course. Usually, one of the following options will be chosen: a) written examination (30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (approx. 30 to 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)
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### Module Catalogue for the Subject

**Module title** | **Abbreviation**
--- | ---
Current research topics in pharmaceutical sciences | 08-PTF3-122-m01

<table>
<thead>
<tr>
<th>ECTS</th>
<th>Method of grading</th>
<th>Only after succ. compl. of module(s)</th>
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<tbody>
<tr>
<td>5</td>
<td>numerical grade</td>
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<thead>
<tr>
<th>Duration</th>
<th>Module level</th>
<th>Other prerequisites</th>
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<tbody>
<tr>
<td>1 semester</td>
<td>graduate</td>
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</table>

### Content

This module deals with selected topics in current research in pharmaceutical science.

### Intended learning outcomes

German intended learning outcomes available but not translated yet.

Der/Die Studierende verfügt über vertiefte Kenntnisse ausgewählter Themen der aktuellen Forschung aus dem Bereich der Pharmazeutischen Wissenschaften. Er/Sie ist in der Lage sich mit aktuellen Themen auseinanderzusetzen und diese zu diskutieren.

### Courses

<table>
<thead>
<tr>
<th>(type, number of weekly contact hours, language — if other than German)</th>
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<tbody>
<tr>
<td>S (no information on SWS (weekly contact hours) and course language available)</td>
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</table>

### Method of assessment

<table>
<thead>
<tr>
<th>(type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)</th>
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</thead>
<tbody>
<tr>
<td>Talk with discussion (approx. 30 minutes)</td>
</tr>
<tr>
<td>Language of assessment: German or English</td>
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### Allocation of places

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### Additional information

Additional information on module duration: 1 to 2 semesters.

### Referred to in LPO 1

(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>Drug Product Development, Quality assurance and industrialization</td>
<td>08-PTF2-122-m01</td>
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<tr>
<th>Module coordinator</th>
<th>Module offered by</th>
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<tbody>
<tr>
<td>degree programme coordinator FOKUS Pharmazie (Pharmacy)</td>
<td>Institute of Pharmacy and Food Chemistry</td>
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**Contents**

German contents available but not translated yet.

Das Modul behandelt spezielle Themen des Drug Product Development, der Qualitätssicherung und der Industrialisierung.

**Intended learning outcomes**

German intended learning outcomes available but not translated yet.


**Courses**

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)

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Subfield Additional Qualifications
(max. 5 ECTS credits)
<table>
<thead>
<tr>
<th>Module title</th>
<th>Abbreviation</th>
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<tbody>
<tr>
<td>Tutoring 1 (practical course)</td>
<td>08-WRM1-102-m01</td>
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<th>Module coordinator</th>
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<tr>
<td>Dean of Studies Chemie (Chemistry)</td>
<td>Faculty of Chemistry and Pharmacy</td>
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**Contents**

The module offers the opportunity to learn correct presenting and mediating scientific questions by giving a tutorial attendant to a lecture at the faculty of chemistry and pharmacy.

**Intended learning outcomes**

The students are able to adequately prepare and present scientific questions, and to guide students in lower semesters.

**Courses**

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

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)

preparation of materials for demonstrations and exercises

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
Pharmacy-related courses outside of the Natural Sciences

### Abbreviation
08-FPM1-122-m01

### Module coordinator
Dean of Studies Pharmazie (Pharmacy)

### Module offered by
Institute of Pharmacy and Food Chemistry

### ECTS
5

### Method of grading
Only after succ. compl. of module(s)

### (not) successfully completed
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### Duration
1 semester

### Module level
graduate

### Other prerequisites
Please consult with course advisory service.

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

Das Modul bietet die Möglichkeit, pharmazienahe Veranstaltungen anderer Fachbereiche, die nicht explizit in der Studienordnung vorgesehen sind, anrechnen zu lassen. Eine vorherige Rücksprache mit der Fachstudienberatung ist zwingend notwendig.

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

Die Studierenden erwerben Kompetenzen entsprechend der besuchten Veranstaltungen.

### Courses
(type, number of weekly contact hours, language — if other than German)
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) or d) successful completion as certified by lecturer

Language of assessment: German or English

### Allocation of places
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### Additional information
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### Referred to in LPO 1
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<table>
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<tbody>
<tr>
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**Intended learning outcomes**

German intended learning outcomes available but not translated yet.

Die Studierenden erwerben Kompetenzen entsprechend der besuchten Veranstaltungen.

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Thesis

(30 ECTS credits)
# Module Catalogue for the Subject

## FOKUS Pharmacy

### Master's with 1 major, 60 ECTS credits

<table>
<thead>
<tr>
<th>Module title</th>
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<tbody>
<tr>
<td>30</td>
<td>numerical grade</td>
<td>08-MCM1 or 08-PTF1 or 07-MS3PBF1 or 08-BC-VPSB or 08-BC-VPMM (module components *-1 only)</td>
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## Contents

The module enables the processing of a defined problem within a specified period by applying the scientific methods learned in the course of study.

## Intended learning outcomes

The student has the ability to deal with a defined problem/issue using scientific methods and to document the results.

## Courses

no courses assigned

## Method of assessment

written thesis
Language of assessment: German or English

## Allocation of places

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## Additional information

Additional information on module duration: 6 months.

## Referred to in LPO I

(examination regulations for teaching-degree programmes)

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