Module Catalogue
for the Subject

FOKUS Life Science
as a Master’s with 1 major
with the degree "Master of Science"
(120 ECTS credits)

Examination regulations version: 2012
Responsible: Faculty of Biology
Responsible: Graduate School of Life Sciences
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Content and Objectives of the Programme

The Master Study Programme FOKUS Life Sciences is an international study programme in the English language and provides an international, research-oriented education in the field of life sciences. Theoretical and practical competences in the field of life sciences are imparted in order to be able to address scientific issues from the fields of life sciences. Students attain the competence to apprehend and formulate complex scientific issues. Students acquire the ability to identify the relevance of scientific findings and to contrive and implement experimental approaches independently with regard to issues from the field of life sciences. Students obtain the ability to interpret the results of experiments and to evaluate and class with in a scientific context.
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)):

5-Jul-2012 (2012-114)

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

(30 ECTS credits)
<table>
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<th>Module title</th>
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<td>Methods in Life Sciences</td>
<td>07-MLS1-122-m01</td>
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<th>Module coordinator</th>
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<td>Dean of Studies Biologie (Biology)</td>
<td>Faculty of Biology</td>
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<th>Duration</th>
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<tr>
<td>1 semester</td>
<td>graduate</td>
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### Contents

Versioned molecular techniques, lipid research methods, microscopic methods, immunohistochemistry, mouse models and gene-knockout approaches, protein and molecular biology techniques, PCR, advanced protein biochemistry, methods in bioinformatics and computational biology.

### Intended learning outcomes

Students are able to review and expand their knowledge of standard molecular techniques and are able to choose methods and techniques to design experiments in a specific research area.

### Courses

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

### Method of assessment

- a) written examination (usually 30 to 60 minutes, including multiple choice questions) or
- b) oral examination of one candidate each (usually 30 to 60 minutes) or
- c) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes)

Language of assessment: 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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<thead>
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<th>Module title</th>
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<td>Topics and Concepts in Life Sciences</td>
<td>07-MLS2-122-m01</td>
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### Contents
A broad variety of topics and concepts from the areas of neuroscience, infection and immunity, integrative biology, and biomedicine including for example: protein characterisation, DNA repair, Drosophila, computational biology, and neurocircuits.

### Intended learning outcomes
Students have an overview of the current research topics in the Graduate School of Life Sciences and are able to explain their significance and scientific background.

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

### Method of assessment
(a) written examination (usually 30 to 60 minutes, including multiple choice questions) or (b) oral examination of one candidate each (usually 30 to 60 minutes) or (c) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes)

Language of assessment: 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)

--
Module title: Research Concepts in Life Sciences
Abbreviation: 07-MLS3-122-m01

Module coordinator: degree programme coordinator Biologie (Biology)
Module offered by: Faculty of Biology

ECTS: 10
Method of grading: numerical grade
Only after succ. compl. of module(s)
Duration: 1 semester
Module level: graduate
Other prerequisites: --

Contents:
Students are introduced to research concepts in the life sciences including for example: biophysical approaches to protein structure, transcription and growth control, genetics, signalling cascades and receptor pharmacology, structural biology, neuronal differentiation and microbiology. Topics may vary according to current research areas in the GSLS.

Intended learning outcomes:
Students are able to recognise the research concepts and their applications in various fields of life sciences currently present in the various section of the GSLS such as neuroscience, infection and immunity, integrative biology and biomedicine and are able to design experiments.

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

Method of assessment:
a) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)
Language of assessment: 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)
--
Thesis
(30 ECTS credits)
Module title | Abbreviation
---|---
Masterthesis and Oral Examination in Life Sciences | 07-MLST-122-m01

Module coordinator | Module offered by
---|---
degree programme coordinator Biologie (Biology) | Faculty of Biology

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

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

Contents

Investigation of a current scientific topic, using modern methods and techniques. Documentation of the results in a written thesis as well as oral examination.

Intended learning outcomes

Students are able to independently plan and execute a scientific research project. They are able to collect, present and interpret raw data according to international standards of good scientific conduct. They are able to summarise their data in a written thesis, adhering to scientific rules and standards. Students are able to critically discuss and defend their experiment plan, results and interpretations thereof and are able to put their own research in the context of current publications in their field. They have acquired a broad expertise both in their field of study and in related fields.

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

This module has 2 components; information on courses listed separately for each component.
- 07-MLST-2-122: K (no information on language and number of weekly contact hours available)
- 07-MLST-1-122: no courses assigned

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

This module has the following 2 assessment components. Unless stated otherwise, students must pass all of these assessment components to pass the module as a whole..

Assessment component to module component 07-MLST-2-122: Kolloquium Life Sciences
- 5 ECTS credits, method of grading: numerical grade
- Vorstellung der Masterarbeit (30 minutes) and Diskussion (15 minutes)
- Language of assessment: English
- Only after succ. compl. of module component(s): Successful completion of module component 07-MLST-1 is a prerequisite for participation in module component 07-MLST-2.

Assessment component to module component 07-MLST-1-122: Masterarbeit Life Sciences
- 25 ECTS credits, method of grading: numerical grade
- written thesis (50-100 pages)

Allocation of places

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Additional information

Additional information listed separately for each module component.
- 07-MLST-2-122: --
- 07-MLST-1-122: Additional information on module duration: 6 months.

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

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Compulsory Electives
(60 ECTS credits)
General Elective Modules

(ECTS credits)
Module title | Experimental Sociobiology
---|---
Abbreviation | 07-MS1ES-111-m01

Module coordinator | Module offered by
holder of the Chair of Behavioral Physiology and Sociobiology | Faculty of Biology

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

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

Contents
The lecture covers the diversity and the development of social behaviour as well as the behavioural physiology and mechanisms of neurobiology that are the basis of the organisation of social groups. A special focus is on current research in the Faculty. With the help of selected publications, the seminar will discuss and explore in more detail the topics covered in the lecture.

Intended learning outcomes
Students understand the value of an integrative approach when looking at complex correlations in behavioural biology. Students are able to recognise and interpret relationships between various aspects of sociobiology. They are able to formulate scientific questions in the context of sociobiology and are able to discuss cutting edge literature in depth.

Courses (type, number of weekly contact hours, language — if other than German)
V + 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) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)
Language of assessment: 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 | Abbreviation
--- | ---
Pathogenicity of Macroorganisms | 07-MLSPM-111-m01

Module coordinator | Module offered by
holder of the Chair of Microbiology | Faculty of Biology

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

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

Contents
Fundamentals of molecular microbiology and infection biology, mechanisms of adherence and invasion, bacterial pathogenicity factors, regulation of virulence, mechanisms of host defence and pathogen interference, current methods in infection biology.

Intended learning outcomes
The students are able to understand fundamental theories of molecular microbiology, infection biology and the emergence of infectious diseases.

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) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (usually 30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes)

Language of assessment: English

Allocation of places
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Additional information
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<td>holder of the Chair of Microbiology</td>
<td>Faculty of Biology</td>
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</table>

**Contents**

Fundamentals of the effector mechanisms of pathogenicity factors, specific examples of prokaryotic and eukaryotic pathogens; current methods in infection biology.

**Intended learning outcomes**

Students understand the fundamental theories relevant to current research on the pathogenicity of microorganisms, infection biology as well as the emergence of infectious diseases.

**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) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (usually 30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes)

Language of assessment: 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 Catalogue for the Subject

### FOKUS Life Science

**Master's with 1 major, 120 ECTS credits**

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<td>degree programme coordinator Biologie (Biology)</td>
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</table>

### Contents

Introduction to cell culture, cell culture lab equipment, cellular biochemistry and cell structures, cell proliferation, generation of in vitro cell models and their applications, cell culture formats, fundamental cell analytical technologies.

### Intended learning outcomes

Students are able to understand the biochemistry, physiology and genetics of mammalian cell culture, and are able to use these techniques.

### 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) written examination (usually 30 to 60 minutes, including multiple choice questions) or
- b) log (usually approx. 10 to 30 pages) or
- c) oral examination of one candidate each (usually 30 to 60 minutes) or
- d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or
- e) presentation (usually 20 to 45 minutes)

Language of assessment: 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**  
Molecular Neurobiology

**Abbreviation**  
03-MLSN-111-m01

**Module coordinator**  
Dean of the Faculty of Biology

**Module offered by**  
Faculty of Medicine

**ECTS**  
5

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

**Duration**  
1 semester  
**Module level**  
graduate

**Other prerequisites**  
--

**Contents**  
Current original research papers and seminal background publications from the field of molecular neurobiology are presented and discussed in depth.

**Intended learning outcomes**  
Students are able to critically analyse original research publications, present the main findings and put them in the context of current ongoing research in the field.

**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)  
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Language of assessment: 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 Catalogue for the Subject

#### FOKUS Life Science

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<td>Macromolecular Crystallography</td>
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### Contents

The principles of structure determination of biological macromolecules by modern crystallography methods will be taught in theory and through application.

### Intended learning outcomes

Students are able to determine the structures of biological macromolecules by employing crystallographic techniques.

### Courses

<table>
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<th>(type, number of weekly contact hours, language — if other than German)</th>
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### Method of assessment

- a) written examination (usually 30 to 60 minutes, including multiple choice questions) or 
- b) log (usually approx. 10 to 30 pages) or 
- c) oral examination of one candidate each (usually 30 to 60 minutes) or 
- d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or 
- e) presentation (usually 20 to 45 minutes)

Language of assessment: English

### Allocation of places

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### Additional information

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<td>Clinical Medicine</td>
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**Contents**

Lecture series focused on the interplay between unmet medical needs and basic research. Diseases are described from the viewpoint of the clinician, followed by 1.) a discussion of novel strategies to combat the disease and 2.) current challenges for basic and translational research. Topics vary every semester.

**Intended learning outcomes**

Students gain an awareness of current challenges for basic and translational research, the clinical application of basic research as well as the development of novel strategies in disease therapy.

**Courses**

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

**Method of assessment**

(a) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)

Language of assessment: 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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**Contents**

Introduction to new and cutting-edge molecular techniques. Methods for scientific investigation.

**Intended learning outcomes**

Students are familiar with cutting-edge methods and techniques and can improve experimental strategies and experimental set ups to answer scientific questions.

**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) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)

Language of assessment: 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 coordinator**
Dean of the Faculty of Biology

**Module offered by**
Faculty of Medicine

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**Duration**
1 semester

**Module level**
graduate

**Contents**
Introduction to the anatomy, morphology, cell biology and biophysics of the brain and the sensory and motor systems as the foundation for the understanding of relevant diseases.

**Intended learning outcomes**
Students can relate structure-function aspects of neurons and their sensory and effector cells to relevant diseases and are thus able to formulate new hypotheses. Students are prepared for independent research in the field of clinical neurobiology.

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

**Method of assessment**
(a) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)

Language of assessment: 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

**Biological Macromolecules**

**Abbreviation**

03-MLSMAC-111-m01

### Module coordinator

Dean of the Faculty of Biology

### Module offered by

Faculty of Medicine

### ECTS

3

### Method of grading

Only after succ. compl. of module(s)

### Duration

1 semester

### Module level

graduate

### Other prerequisites

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### Contents

The module will introduce students to the foundations of macromolecular architectures as well as frequently applied biophysical methods such as crystallography. The knowledge acquired will serve as a basis for the discussion of the structure and function of selected biological macromolecules.

### Intended learning outcomes

Students can understand general structure-function relationships of biological macromolecules and can develop solution strategies for problems in structural biology, including the competence to use in silico approaches.

### Courses

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

### Method of assessment

**Type:** written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)

**Scope:** Language of assessment: 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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### Contents
Cutting edge topics in the life sciences. Content varies each semester.

### Intended learning outcomes
Students gain an overview of current topics in the life sciences.

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

### Method of assessment
(a) written examination (usually 30 to 60 minutes, including multiple choice questions) or (b) oral examination of one candidate each (usually 30 to 60 minutes) or (c) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes)

Language of assessment: English

### Allocation of places
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### Additional information
Additional information on module duration: 1 to 2 semesters.
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**Module coordinator**
Dean of Studies Biologie (Biology)

**Module offered by**
Faculty of Biology

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**Duration**
1 semester

**Module level**
graduate

**Other prerequisites**
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**Contents**
Presentation and discussion of cutting edge literature in the field of life sciences.

**Intended learning outcomes**
Students are able to understand, present and critically discuss cutting edge literature in the field of life sciences.

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

**Method of assessment**
(a) written examination (usually 30 to 60 minutes, including multiple choice questions) or (b) oral examination of one candidate each (usually 30 to 60 minutes) or (c) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes)
Language of assessment: English

**Allocation of places**
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**Additional information**
Additional information on module duration: 1 to 2 semesters.

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

Current topics in the field of life sciences, content varies each semester.

**Intended learning outcomes**

Students gain an overview of topics in the field of life sciences.

**Courses**

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

**Method of assessment**

a) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (usually 30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes)

Language of assessment: English

**Allocation of places**

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**Additional information**

Additional information on module duration: 1 to 2 semesters.

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

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**Contents**

Cutting edge literature in the field of life sciences.

**Intended learning outcomes**

Students are able to understand, present and critically discuss cutting edge literature in the field of life sciences.

**Courses**

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

**Method of assessment**

(a) written examination (usually 30 to 60 minutes, including multiple choice questions) or (b) oral examination of one candidate each (usually 30 to 60 minutes) or (c) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes)

Language of assessment: English

**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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### Module title

**Special Subject Lecture 5 (actual lectures to be specified)**

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### Module coordinator

Dean of Studies Biologie (Biology)

### Module offered by

Faculty of Biology

### ECTS

3

### Method of grading

(only after successful completion of module(s))

### Duration

1 semester

### Module level

graduate

### Other prerequisites

--

### Contents

Current topics in the field of life sciences.

### Intended learning outcomes

Students gain an overview of current topics in the life sciences.

### Courses

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

### Method of assessment

(a) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) oral examination of one candidate each (usually 30 to 60 minutes) or c) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes)

Language of assessment: 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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### Contents
Cutting edge topics in the life sciences. Content varies each semester.

### Intended learning outcomes
Students are able to understand, present and critically discuss cutting edge literature in the field of life sciences.

### Courses

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### Method of assessment

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### Allocation of places

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### Additional information

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**Contents**

Design and presentation of a poster describing research project results.

**Intended learning outcomes**

Poster design, oral presentation of research project results/abstract thereof, ability to answer specific questions regarding experiment design and interpretation of results.

**Courses**

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

**Method of assessment**

Poster in accordance with conference specifications

Language of assessment: 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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**Contents**

Design and presentation of a poster describing research project results.

**Intended learning outcomes**

Poster design, oral presentation of research project results/abstract thereof, ability to answer specific questions regarding experiment design and interpretation of results.

**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)

Poster in accordance with conference specifications

Language of assessment: 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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### Contents

Design and presentation of a talk describing research project results.

### Intended learning outcomes

Conceptualisation of a scientific talk, preparation of a ppt presentation/individual slides, design of figures to present current data, oral presentation of research project results/abstract thereof, ability to answer specific questions regarding experiment design and interpretation of results.

### 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 (usually 20 to 45 minutes)
- Language of assessment: English

### Allocation of places

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### Additional information

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### Referred to in LPO I

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**Contents**

Design and presentation of a talk describing research project results.

**Intended learning outcomes**

Conceptualisation of a scientific talk, preparation of a ppt presentation/individual slides, design of figures to present current data, oral presentation of research project results/abstract thereof, ability to answer specific questions regarding experiment design and interpretation of results.

**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 (usually 20 to 45 minutes)

Language of assessment: 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
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Intership 1 | 07-MLSEP1-122-m01

Module coordinator | Module offered by
Dean of Studies Biologie (Biology) | Faculty of Biology

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Contents
Research experience abroad in agencies, institutes or industry. Topics will vary according to the place selected. The placement must have a duration of no less than 5 weeks.

Intended learning outcomes
Students are familiar with the structures of agencies, research institutes and industry and have gained practical experience.

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

P

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) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)

Language of assessment: 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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**Contents**
Research experience abroad in agencies, institutes or industry. Topics will vary according to the place selected. The placement must have a duration of no less than 5 weeks.

**Intended learning outcomes**
Students are familiar with the structures of agencies, research institutes and industry and have gained practical experience.

**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)

a) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)

Language of assessment: English

**Allocation of places**

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**Additional information**

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**Module coordinator**
Dean of Studies Biologie (Biology)

**Module offered by**
Faculty of Biology

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**Contents**
Topic of the field trip will vary according to the company or institute visited and may include field work in the area of integrative biology. The field trip should have a duration of 2-5 days.

**Intended learning outcomes**
This module will provide students with an opportunity to forge links with industry and potential employers and/or to learn how to collect data in the field.

**Courses**

E (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) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)

Language of assessment: English

**Allocation of places**
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**Additional information**
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**Contents**

Topic of the field trip will vary according to the company or institute visited and may include field work in the area of integrative biology. The field trip should have a duration of 2-5 days.

**Intended learning outcomes**

This module will provide students with an opportunity to forge links with industry and potential employers and/or to learn how to collect data in the field.

**Courses**

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

**Method of assessment**

a) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)

Language of assessment: 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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**Contents**
Transferable skills tutorial: scientific writing and (oral) presentation skills.

**Intended learning outcomes**
The students possess scientific writing and (oral) presentation skills.

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

**Method of assessment**
(a) written examination (usually 30 to 60 minutes, including multiple choice questions) or (b) log (usually approx. 10 to 30 pages) or (c) oral examination of one candidate each (usually 30 to 60 minutes) or (d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or (e) presentation (usually 20 to 45 minutes)
Language of assessment: 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
Special Training Program GSLS 2

### Abbreviation
07-MLSTP2-122-m01

### Module coordinator
Dean of Studies Biologie (Biology)

### Module offered by
Faculty of Biology

### 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
--

### Contents
Transferable skills tutorial: patent law.

### Intended learning outcomes
Students have developed an understanding of the fundamental principles of patent law.

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

### Method of assessment
a) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)

Language of assessment: 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 Catalogue for the Subject FOKUS Life Science

#### Master's with 1 major, 120 ECTS credits

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</table>

#### Contents

Transferable skills tutorial: business etiquette, team building and negotiation skills or intercultural communication.

#### Intended learning outcomes

Students have acquired skills in the area of business etiquette, team building and negotiation or intercultural communication.

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

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

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- d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or
- e) presentation (usually 20 to 45 minutes)

Language of assessment: 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)

--
Module title
Tutorial 1

Abbreviation
07-MLSTU1-122-m01

Module coordinator
degree programme coordinator Master Life Sciences

Module offered by
Faculty of Biology

ECTS
3

Method of grading
(only after successfully completed module(s))

Duration
1 semester

Module level
graduate

Other prerequisites
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Contents
Students work as tutors (expenditure of time: approximately 90 working hours). They support teaching activities in the degree programmes and are involved in the organisation and planning of lectures, seminars and lab courses.

Intended learning outcomes
The tutors are able to communicate complex topics. They are able to lead students or groups. They know how to organise and plan (important elements of) their projects and of the projects of the students they mentor.

Courses
T (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) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)

Language of assessment: 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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**Module coordinator**

degree programme coordinator Master Life Sciences

**Module offered by**

Faculty of Biology

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**Contents**

Students work as tutors (expenditure of time: approximately 150 working hours). They support teaching activities in the degree programmes and are involved in the organisation and planning of lectures, seminars and lab courses.

**Intended learning outcomes**

The tutors are able to communicate complex topics. They are able to lead students or groups. They know how to organise and plan (important elements of) their projects and of the projects of the students they mentor.

**Courses**

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

**Method of assessment**

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Language of assessment: 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>

### Contents

Responsible and ethical conduct of research, content and importance of compliance with international regulations to this end, information on national and international authorities regulating rules of conduct of research, biosafety and risks.

### Intended learning outcomes

Students meet the academic requirements/possess the knowledge and skills required of a biosafety officer. They have developed an awareness of critical elements in quality management and quality control in research labs. Students know national and international authorities that are responsible for the regulation and control of good scientific conduct and ethical questions involving, in particular, genetically modified organisms. Students understand crucial elements of responsible and ethical conduct of research as well as the consequences of a violation of these rules.

### Courses

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### Method of assessment

- a) written examination (usually 30 to 60 minutes, including multiple choice questions) or
- b) log (usually approx. 10 to 30 pages) or
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- d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or
- e) presentation (usually 20 to 45 minutes)

Language of assessment: 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
Responsible Conduct of Research 2

### Abbreviation
07-MLSRR2-122-m01

### Module coordinator
Dean of Studies Biologie (Biology)

### Module offered by
Faculty of Biology

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### Duration
1 semester

### Module level
graduate

### Contents
Quality management and quality control in research labs. Application of the rules of good scientific practice to a.) scientific publication - definition of plagiarism and related violations - b.) evaluation, presentation, and interpretation of raw data and c.) planning of experiments and scientific controls.

### Intended learning outcomes
Students meet the academic requirements/possess the knowledge and skills required of a biosafety officer. They have developed an awareness of critical elements in quality management and quality control in research labs. Students know national and international authorities that are responsible for the regulation and control of good scientific conduct and ethical questions involving, in particular, genetically modified organisms. Students understand crucial elements of responsible and ethical conduct of research as well as the consequences of a violation of these rules.

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

### Method of assessment
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Language of assessment: English

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**Contents**

Quality management and quality control in research labs. Application of the rules of good scientific practice to a.) scientific publication - definition of plagiarism and related violations - b.) evaluation, presentation, and interpretation of raw data and c.) planning of experiments and scientific controls.

**Intended learning outcomes**

Students meet the academic requirements/possess the knowledge and skills required of a biosafety officer. They have developed an awareness of critical elements in quality management and quality control in research labs. Students know national and international authorities that are responsible for the regulation and control of good scientific conduct and ethical questions involving, in particular, genetically modified organisms. Students understand crucial elements of responsible and ethical conduct of research as well as the consequences of a violation of these rules.

**Courses**

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

**Method of assessment**

a) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)

Language of assessment: 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 | Neurogenetics of Behavior | 07-MS1NB-112-m01

Module coordinator | holder of the Chair of Neurobiology and Genetics | Module offered by | Faculty of Biology

ECTS | 10 | Method of grading | numerical grade | Only after succ. compl. of module(s)

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

Contents
To understand how the brain controls behaviour is at the heart of neuroscience. Both brain and behaviour can be overwhelmingly complex and plastic, yet neurogenetic methods are powerful tools to dissect the principles of how the brain controls behaviour. The lecture and seminar will give a state-of-the-art view on current and important topics of behavioural neurobiology (incl. e.g. sleep, control of appetite and feeding, social behaviour, mating, mirror neurons, molecular mechanisms of auditory-guided behaviour, neurogenetic techniques) focusing on genetic model systems such as the fruit fly Drosophila, the mouse, and the nematode C. elegans.

Intended learning outcomes
In the lecture, students acquire theoretical and methodological insights into current topics in the field of neurogenetics in general and the neurogenetics of behaviour. In the seminar, students practise presenting and discussing research findings in English.

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

Method of assessment
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
### FOKUS Life Science
#### Master's with 1 major, 120 ECTS credits

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### Module coordinator
holder of the Chair of Neurobiology and Genetics

### Module offered by
Faculty of Biology

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### Contents
Lecture and seminar Endogenous Clocks: Students acquire an overview of endogenous clocks in unicellular organisms, fungi, plants, and animals with a focus on the neuronal organisation of the endogenous clock in the brain of mammals and insects. Students learn about the biological purpose of endogenous clocks, their function on a molecular, cellular, and organismic level, as well as their adaptation to 24 hour days with varying hours of daylight. Related aspects of jetlag and shift-work are discussed. Lecture Neuronal Development: Fundamentals of neuronal development on the molecular level. Main focus is the establishment of the neuroectoderm, pattern formation, regional subdivision, neuronal progenitor cells, cell growth, differentiation of neurons, axonal navigation, and neuronal circuitry.

### Intended learning outcomes
Students acquire a fundamental knowledge and understanding of endogenous clocks and neuronal development and gain an insight into current research. Students also learn to independently work on reading assignments and to research specific questions that arise in their reading. Results of the students’ independent study are critically discussed in the seminar.

### Courses
V + S (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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Elective Modules: Sections of Graduate School of Life Sciences (GSLS) (ECTS credits)
Section Neurosciences
(ECTS credits)
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<tr>
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**Contents**

Current progress in the research group: presentation and discussion of the results of all research group members, exchange of experiences, troubleshooting tips.

**Intended learning outcomes**

Students have developed problem solving skills, presentation skills, scientific discussion skills as well as troubleshooting skills and are able to plan experiments.

**Courses**

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

**Method of assessment**

Presentation (usually 20 to 45 minutes)

Language of assessment: 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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**Contents**

Presentation and discussion of cutting edge literature.

**Intended learning outcomes**

Overview of cutting edge literature in the field of neuroscience, ability to critically read, present and discuss the content of publications.

**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 (usually 20 to 45 minutes)
Language of assessment: English

**Allocation of places**

--

**Additional information**

--

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

--
### Module title
Graduate Program Seminar Neurosciences 1

### Abbreviation
07-MLSGP-NS1-122-m01

### Module coordinator
Dean of Studies Biologie (Biology)

### Module offered by
Faculty of Biology

### ECTS
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### 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
--

### Contents
Invited guest speakers present and discuss cutting edge research including novel/current methods as well as fundamental research with relevance to the current programme/topics of the research group.

### Intended learning outcomes
Students acquire an overview of cutting edge research in their field as well as an understanding of new and current methods.

### 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 (usually 20 to 45 minutes)
Language of assessment: English

### Allocation of places
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### Additional information
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Dean of Studies Biologie (Biology)

**Module offered by**

Faculty of Biology

**ECTS**

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**Method of grading**

Only after succ. compl. of module(s)

**Duration**

1 semester

**Module level**

graduate

**Other prerequisites**

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**Contents**

Invited guest speakers present and discuss cutting edge research including novel/current methods as well as fundamental research with relevance to the current programme/topics of the research group.

**Intended learning outcomes**

Students acquire an overview of cutting edge research in their field as well as an understanding of new and current methods.

**Courses**

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

**Method of assessment**

presentation (usually 20 to 45 minutes)

Language of assessment: 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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Contents

Discussion of current methods and techniques required in lab projects. Insights into and training in novel methods.

Intended learning outcomes

Students acquire proficiency in those methods and techniques that are required in their lab projects.

Courses

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

Method of assessment

(a) written examination (usually 30 to 60 minutes, including multiple choice questions) or (b) log (usually approx. 10 to 30 pages) or (c) oral examination of one candidate each (usually 30 to 60 minutes) or (d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or (e) presentation (usually 20 to 45 minutes)

Language of assessment: 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 Catalogue for the Subject
### FOKUS Life Science
#### Master’s with 1 major, 120 ECTS credits

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**Contents**

Presentation of current research project results in the form of a poster and/or talk. Critical evaluation of results and their discussion in the research community. Discussion and evaluation of interim progress reports with supervisors/examination committee and troubleshooting.

**Intended learning outcomes**

Poster design skills, (oral) presentation skills, ability to critically discuss results taking into consideration current literature in the field, troubleshooting skills, evaluation of interim progress reports.

**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 (usually 20 to 45 minutes) |

Language of assessment: English

**Allocation of places**

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**Additional information**

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**Contents**

Presentation of current research project results in the form of a poster and/or talk. Critical evaluation of results and their discussion in the research community. Discussion and evaluation of interim progress reports with supervisors/examination committee and troubleshooting.

**Intended learning outcomes**

Poster design skills, (oral) presentation skills, ability to critically discuss results taking into consideration current literature in the field, troubleshooting skills, evaluation of interim progress reports.

**Courses**

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

**Method of assessment**

Presentation (usually 20 to 45 minutes)

Language of assessment: 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)
## Neurosciences Lab 1

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### Module coordinator
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### Module offered by
Faculty of Biology

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### Contents
Students spend five weeks working on a small, well-defined scientific lab project.

### Intended learning outcomes
Students have reinforced previously acquired lab skills, acquired new lab techniques, and learned how to apply theoretical knowledge in the lab. Students have gained expertise in the analysis of raw data and their presentation.

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

### Method of assessment
- **a)** written examination (approx. 30 to 60 minutes, including multiple choice questions)
- **b)** log (10 to 30 pages)
- **c)** oral examination of one candidate each (approx. 30 to 60 minutes)
- **d)** oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes)
- **e)** presentation (approx. 20 to 45 minutes)

Language of assessment: English

### Allocation of places
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### Additional information
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Dean of Studies Biologie (Biology)

**Module offered by**
Faculty of Biology

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**Duration**
1 semester

**Module level**
graduate

**Other prerequisites**
--

**Contents**
Students spend five weeks working on a small, well-defined scientific lab project.

**Intended learning outcomes**
Students have reinforced previously acquired lab skills, acquired new lab techniques, and learned how to apply theoretical knowledge in the lab. Students have gained expertise in the analysis of raw data and their presentation.

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

**Method of assessment**
(a) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)

Language of assessment: English

**Allocation of places**
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**Additional information**
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**Contents**

Current progress in the research group: presentation and discussion of the results of all research group members, exchange of experiences, troubleshooting tips.

**Intended learning outcomes**

Students have developed problem solving skills, presentation skills, scientific discussion skills and experimental planning as well as troubleshooting skills.

**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 (usually 20 to 45 minutes)
Language of assessment: English

**Allocation of places**

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**Additional information**

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**Contents**

Presentation and discussion of cutting edge literature.

**Intended learning outcomes**

Overview of cutting edge literature in the field of neuroscience, ability to critically read, present and discuss the content of publications.

**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 (usually 20 to 45 minutes)
Language of assessment: English

**Allocation of places**

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**Additional information**

--

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

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Module title | Abbreviation
---|---
Graduate Program Seminar Infection and Immunity 1 | 07-MLSGP-II1-122-m01

Module coordinator | Module offered by
Dean of Studies Biologie (Biology) | Faculty of Biology

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

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

Contents
Invited guest speakers present and discuss cutting edge research including novel/current methods as well as fundamental research with relevance to the current programme/topics of the research group.

Intended learning outcomes
Students have gained an overview of cutting edge research in their field and have developed an understanding of new and current methods.

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 (usually 20 to 45 minutes)
Language of assessment: English

Allocation of places
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Additional information
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**Contents**

Invited guest speakers present and discuss cutting edge research including novel/current methods as well as fundamental research with relevance to the current programme/topics of the research group.

**Intended learning outcomes**

Students have gained an overview of cutting edge research in their field and have developed an understanding of new and current methods.

**Courses**

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**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 coordinator**
degree programme coordinator Master Life Sciences

**Module offered by**
Faculty of Biology

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**Duration**
1 semester

**Module level**
graduate

**Other prerequisites**
--

**Contents**
Discussion of current methods and techniques required in lab projects.

**Intended learning outcomes**
Students will have acquired proficiency in those methods and techniques that are required in their lab projects.

**Courses** (type, number of weekly contact hours, language — if other than German)
W (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)
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Language of assessment: 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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**Contents**

Discussion of current methods and techniques required in lab projects.

**Intended learning outcomes**

Students will have acquired proficiency in those methods and techniques that are required in their lab projects.

**Courses**

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

**Method of assessment**

(a) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes) 

Language of assessment: English

**Allocation of places**

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**Additional information**

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### Module Catalogue for the Subject
FOKUS Life Science
Master's with 1 major, 120 ECTS credits

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### Contents
Presentation of current research project results in the form of a poster and/or talk. Critical evaluation of results and their discussion in the research community. Discussion and evaluation of interim progress reports with supervisors/examination committee and troubleshooting.

### Intended learning outcomes
Poster design skills, (oral) presentation skills, ability to critically discuss results taking into consideration current literature in the field, troubleshooting skills, evaluation of interim progress reports.

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

### Method of assessment
Presentation (usually 20 to 45 minutes)
Language of assessment: English

### Allocation of places
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### Additional information
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**Intended learning outcomes**

Poster design skills, (oral) presentation skills, ability to critically discuss results taking into consideration current literature in the field, troubleshooting skills, evaluation of interim progress reports.

**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 (usually 20 to 45 minutes)

Language of assessment: English

**Allocation of places**

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**Additional information**

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### Contents

Students spend five weeks working on a small, well-defined scientific lab project.

### Intended learning outcomes

Students have reinforced previously acquired lab skills, acquired new lab techniques, and learned how to apply theoretical knowledge in the lab. Students have gained expertise in the analysis of raw data and their presentation.

### Courses

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

### Method of assessment

a) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)

Language of assessment: English

### Allocation of places

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### Additional information

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## Module Coordinator

Dean of Studies Biologie (Biology)

## Module Offered by

Faculty of Biology

## ECTS

10

## Method of Grading

Only after successfully completed module(s)

## Duration

1 semester

## Module Level

Graduate

## Other Prerequisites

--

## Contents

Students spend five weeks working on a small, well-defined scientific lab project.

## Intended Learning Outcomes

Students have reinforced previously acquired lab skills, acquired new lab techniques, and learned how to apply theoretical knowledge in the lab. Students have gained expertise in the analysis of raw data and their presentation.

## Courses

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

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Language of assessment: English

## Allocation of Places

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## Additional Information

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## Referred to in LPO 1

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**Contents**

Current progress in the research group: presentation and discussion of the results of all research group members, exchange of experiences, troubleshooting tips.

**Intended learning outcomes**

Students have developed problem solving skills, presentation skills, scientific discussion skills as well as troubleshooting skills and are able to plan experiments.

**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 (usually 20 to 45 minutes)
Language of assessment: English

**Allocation of places**

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**Additional information**

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**Contents**

Presentation and discussion of cutting edge literature.

**Intended learning outcomes**

Overview of cutting edge literature in the field of neuroscience, ability to critically read, present and discuss the content of publications.

**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 (usually 20 to 45 minutes)

Language of assessment: English

**Allocation of places**

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**Contents**

Invited guest speakers present and discuss cutting edge research including novel/current methods as well as fundamental research with relevance to the current programme/topics of the research group.

**Intended learning outcomes**

Students have gained an overview of cutting edge research in their field and have developed an understanding of new and current methods.

**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 (usually 20 to 45 minutes)

Language of assessment: English

**Allocation of places**

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**Additional information**

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

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**Duration**
1 semester

**Module level**
graduate

**Other prerequisites**
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**Contents**
Discussion of current methods and techniques required in lab projects or in the field during field trips.

**Intended learning outcomes**
Students have acquired proficiency in those methods and techniques that are required in their lab or field projects.

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

**Method of assessment**
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Language of assessment: English

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### Contents
Discussion of current methods and techniques required in lab projects or in the field during field trips.

### Intended learning outcomes
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### 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)

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Language of assessment: English

### Allocation of places
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### Additional information
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**Intended learning outcomes**

Poster design skills, (oral) presentation skills, ability to critically discuss results taking into consideration current literature in the field, troubleshooting skills, evaluation of interim progress reports.

**Courses**

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

**Method of assessment**

presentation (usually 20 to 45 minutes)  
Language of assessment: English

**Allocation of places**

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Poster design skills, (oral) presentation skills, ability to critically discuss results taking into consideration current literature in the field, troubleshooting skills, evaluation of interim progress reports.

**Courses**

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

**Method of assessment**

Presentation (usually 20 to 45 minutes)

Language of assessment: 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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**Contents**

Students spend five weeks working on a small, well-defined scientific lab or field project.

**Intended learning outcomes**

Students have reinforced previously acquired lab skills, acquired new lab techniques, and learned how to apply theoretical knowledge in the lab. Students have gained expertise in the analysis of raw data and their presentation.

**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)

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Language of assessment: English

**Allocation of places**

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**Module coordinator**
Dean of Studies Biologie (Biology)

**Module offered by**
Faculty of Biology

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10 | (not) successfully completed | -- |

**Duration** | **Module level** | **Other prerequisites** |
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Language of assessment: English

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Section Biomedicine

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**Contents**

Current progress in the research group: presentation and discussion of the results of all research group members, exchange of experiences, troubleshooting tips.

**Intended learning outcomes**

Students have developed problem solving skills, presentation skills, scientific discussion skills as well as troubleshooting skills and are able to plan experiments.

**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 (usually 20 to 45 minutes)
Language of assessment: English

**Allocation of places**

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**Additional information**

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**Contents**

Presentation and discussion of cutting edge literature.

**Intended learning outcomes**

Overview of cutting edge literature in the field of neuroscience, ability to critically read, present and discuss the content of publications.

**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 (usually 20 to 45 minutes)

Language of assessment: English

**Allocation of places**

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**Contents**
Invited guest speakers present and discuss cutting edge research including novel/current methods as well as fundamental research with relevance to the current programme/topics of the research group.

**Intended learning outcomes**
Students have gained an overview of cutting edge research in their field and have developed an understanding of new and current methods.

**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 (usually 20 to 45 minutes)
Language of assessment: English

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**Intended learning outcomes**
Students have gained an overview of cutting edge research in their field and have developed an understanding of new and current methods.

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

**Method of assessment**
Presentation (usually 20 to 45 minutes)
Language of assessment: English

**Allocation of places**
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**Contents**

Discussion of current methods and techniques required in lab projects.

**Intended learning outcomes**

Students have acquired proficiency in those methods and techniques that are required in their lab or field projects.

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

W (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) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)

Language of assessment: English

**Allocation of places**

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### Contents
Discussion of current methods and techniques required in lab projects.

### Intended learning outcomes
Students have acquired proficiency in those methods and techniques that are required in their lab or field projects.

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

### Method of assessment
(a) written examination (usually 30 to 60 minutes, including multiple choice questions) or b) log (usually approx. 10 to 30 pages) or c) oral examination of one candidate each (usually 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (usually approx. 30 to 60 minutes) or e) presentation (usually 20 to 45 minutes)

Language of assessment: English

### Allocation of places
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**Contents**

Presentation of current research project results in the form of a poster and/or talk. Critical evaluation of results and their discussion in the research community. Discussion and evaluation of interim progress reports with supervisors/examination committee and troubleshooting.

**Intended learning outcomes**

Poster design skills, (oral) presentation skills, ability to critically discuss results taking into consideration current literature in the field, troubleshooting skills, evaluation of interim progress reports.

**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 (usually 20 to 45 minutes)
Language of assessment: 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

Retreat Biomedicine 2

| Abbreviation | 07-MLSRBM2-122-m01 |

#### Module coordinator
Dean of Studies Biologie (Biology)

#### Module offered by
Faculty of Biology

#### ECTS
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#### Method of grading
Only after successfully completed

#### Duration
1 semester

#### Module level
graduate

#### Other prerequisites
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### Courses

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### Method of assessment

Presentation (usually 20 to 45 minutes)

Language of assessment: English

### Allocation of places

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### Additional information

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## Module Catalogue for the Subject
### FOKUS Life Science
#### Master's with 1 major, 120 ECTS credits

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### Intended learning outcomes

Students have reinforced previously acquired lab skills, acquired new lab techniques, and learned how to apply theoretical knowledge in the lab. Students have gained expertise in the analysis of raw data and their presentation.

### Courses

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### Method of assessment

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Language of assessment: English

### Allocation of places

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Biomedicine Lab 2 | 07-MLSPC-BM2-122-m01

**Module coordinator** | **Module offered by**
Dean of Studies Biologie (Biology) | Faculty of Biology

**ECTS** | **Method of grading** | **Only after succ. compl. of module(s)**
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**Duration** | **Module level** | **Other prerequisites**
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1 semester | graduate | --

**Contents**

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**Intended learning outcomes**

Students have reinforced previously acquired lab skills, acquired new lab techniques, and learned how to apply theoretical knowledge in the lab. Students have gained expertise in the analysis of raw data and their presentation.

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**Allocation of places**

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