

Subdivided Module Catalogue for the Subject

FOKUS Life Sciences

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

Course of Studies - Contents and Objectives

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)):

05-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.

The subject is divided into

Abbreviation	Module title	ECTS credits	Method of grading	page
Compulsory Courses (30 ECTS credits)				
07-MLS1-122-m01	Methods in Life Sciences	10	NUM	13
07-MLS2-122-m01	Topics and Concepts in Life Sciences	10	NUM	14
07-MLS3-122-m01	Research Concepts in Life Sciences	10	NUM	15
Thesis (30 ECTS credits)				
07-MLST-122-m01	Masterthesis and Oral Examination in Life Sciences	30	NUM	67
Compulsory Electives (60 ECTS credits)				
General Elective Modules				
07-MS1ES-111-m01	Experimental Sociobiology	10	NUM	82
07-MLSPM-111-m01	Pathogenicity of Macroorganisms	5	NUM	47
07-MLSINF-111-m01	Infection Biology	5	NUM	28
07-MSCC-111-m01	Biochemistry, Physiology and Genetics of Mammalian Cell Culture	5	B/NB	85
03-MLSMN-111-m01	Molecular Neurobiology	5	B/NB	11
03-MLSCRY-111-m01	Macromolecular Crystallography	5	B/NB	9
03-MLSCMED-111-m01	Clinical Medicine	5	B/NB	7
03-MSMT-111-m01	Molecular Techniques	3	B/NB	12
03-MLSCN-111-m01	Clinical Neurobiology	3	B/NB	8
03-MLSMAC-111-m01	Biological Macromolecules	3	B/NB	10
07-MLSL1-122-m01	Special Subject Lecture 1 (actual lectures to be specified)	10	B/NB	29
07-MLSL2-122-m01	Special Subject Lecture 2 (actual lectures to be specified)	10	B/NB	30
07-MLSL3-122-m01	Special Subject Lecture 3 (actual lectures to be specified)	5	B/NB	31
07-MLSL4-122-m01	Special Subject Lecture 4 (actual lectures to be specified)	5	B/NB	32
07-MLSL5-122-m01	Special Subject Lecture 5 (actual lectures to be specified)	3	B/NB	33
07-MLSL6-122-m01	Special Subject Lecture 6 (actual lectures to be specified)	3	B/NB	34
07-MLSM1-122-m01	Congress Participation 1 (Poster)	5	B/NB	35
07-MLSM2-122-m01	Congress Participation 2 (Poster) 2	5	B/NB	36
07-MLSMT1-122-m01	Congress Participation (Talk) 1	10	B/NB	37
07-MLSMT2-122-m01	Congress Participation (Talk) 2	10	B/NB	38
07-MLSEP1-122-m01	Internship 1	10	B/NB	16
07-MLSEP2-122-m01	Internship 2	10	B/NB	17
07-MLSEX1-122-m01	Excursion 1	5	B/NB	18
07-MLSEX2-122-m01	Excursion 2	10	B/NB	19
07-MLSTP1-122-m01	Special Training Program GSLS 1	5	B/NB	69
07-MLSTP2-122-m01	Special Training Program GSLS 2	5	B/NB	70
07-MLSTP3-122-m01	Special Training Program GSLS 3	5	B/NB	71
07-MLSTU1-122-m01	Tutorial 1	3	B/NB	72
07-MLSTU2-122-m01	Tutorial 2	5	B/NB	73
07-MLSRR1-122-m01	Responsible Conduct of Research 1	2	B/NB	64
07-MLSRR2-122-m01	Responsible Conduct of Research 2	4	B/NB	65
07-MLSRR3-122-m01	Responsible Conduct of Research 3	6	B/NB	66
07-MS1NB-112-m01	Neurogenetics of Behavior	10	NUM	83

07-MS1NEC-112-m01	Developmental Neurobiology and Chronobiology	10	NUM	84
Elective Modules: Sections of Graduate School of Life Sciences (GSLs)				
Section Neurosciences				
07-MLSRG-NS1-122-m01	Research Group Seminar Neurosciences 1	5	B/NB	56
07-MLSRG-NS2-122-m01	Research Group Seminar Neurosciences 2	5	B/NB	57
07-MLSGP-NS1-122-m01	Graduate Program Seminar Neurosciences 1	5	B/NB	26
07-MLSGP-NS2-122-m01	Graduate Program Seminar Neurosciences 2	5	B/NB	27
07-MLSWS-NS1-122-m01	Workshop Neurosciences 1	5	B/NB	80
07-MLSWS-NS2-122-m01	Workshop Neurosciences 2	5	B/NB	81
07-MLSRNS1-122-m01	Retreat Neurosciences 1	5	B/NB	62
07-MLSRNS2-122-m01	Retreat Neurosciences 2	5	B/NB	63
07-MLSPC-NS1-122-m01	Neurosciences Lab 1	10	B/NB	45
07-MLSPC-NS2-122-m01	Neurosciences Lab 2	10	B/NB	46
Section Infection and Immunity				
07-MLSRGI1-122-m01	Research Group Seminar Infection und Immunity 1	5	B/NB	54
07-MLSRGI2-122-m01	Research Group Seminar Infection und Immunity 2	5	B/NB	55
07-MLSGP-II1-122-m01	Graduate Program Seminar Infection and Immunity 1	5	B/NB	24
07-MLSGP-II2-122-m01	Graduate Program Seminar Infection and Immunity 2	5	B/NB	25
07-MLSII1-122-m01	Workshop Infection and Immunity 1	5	B/NB	74
07-MLSII2-122-m01	Workshop Infection and Immunity 2	5	B/NB	75
07-MLSRII1-122-m01	Retreat Infection and Immunity 1	5	B/NB	60
07-MLSRII2-122-m01	Retreat Infection and Immunity 2	5	B/NB	61
07-MLSPC-II1-122-m01	Infection and Immunity Lab 1	10	B/NB	43
07-MLSPC-II2-122-m01	Infection and Immunity Lab 2	10	B/NB	44
Section Integrative Biology				
07-MLSRGIB1-122-m01	Research Group Seminar Integrative Biology 1	5	B/NB	52
07-MLSRGIB2-122-m01	Research Group Seminar Integrative Biology 2	5	B/NB	53
07-MLSGPIB1-122-m01	Graduate Program Seminar Integrative Biology 1	5	B/NB	22
07-MLSGPIB2-122-m01	Graduate Program Seminar Integrative Biology 2	5	B/NB	23
07-MLSWS-IB1-122-m01	Workshop Integrative Biology 1	5	B/NB	78
07-MLSWS-IB2-122-m01	Workshop Integrative Biology 2	5	B/NB	79
07-MLSRIB1-122-m01	Retreat Integrative Biology 1	5	B/NB	58
07-MLSRIB2-122-m01	Retreat Integrative Biology 2	5	B/NB	59
07-MLSPC-IB1-122-m01	Integrative Biology Lab 1	10	B/NB	41
07-MLSPC-IB2-122-m01	Integrative Biology Lab 2	10	B/NB	42
Section Biomedicine				
07-MLSRGBM1-122-m01	Research Group Seminar Biomedicine 1	5	B/NB	50
07-MLSRGBM2-122-m01	Research Group Seminar Biomedicine 2	5	B/NB	51
07-MLSGP-BM1-122-m01	Graduate Program Seminar Biomedicine 1	5	B/NB	20
07-MLSGP-BM2-122-m01	Graduate Program Seminar Biomedicine 2	5	B/NB	21

07-MLSWS-BM1-122-m01	Workshop Biomedicine 1	5	B/NB	76
07-MLSWS-BM2-122-m01	Workshop Biomedicine 2	5	B/NB	77
07-MLSRBM1-122-m01	Retreat Biomedicine 1	5	B/NB	48
07-MLSRBM2-122-m01	Retreat Biomedicine 2	5	B/NB	49
07-MLSPC-BM1-122-m01	Biomedicine Lab 1	10	B/NB	39
07-MLSPC-BM2-122-m01	Biomedicine Lab 2	10	B/NB	40

Module title		Abbreviation
Clinical Medicine		03-MLSCMED-111-m01
Module coordinator		Module offered by
Dean of the Faculty of Biology		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Clinical Neurobiology		03-MLSCN-111-m01
Module coordinator		Module offered by
Dean of the Faculty of Biology		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
3	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Macromolecular Crystallography		03-MLSCRY-111-m01
Module coordinator		Module offered by
Dean of the Faculty of Biology		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Biological Macromolecules		03-MLSMAC-111-m01
Module coordinator		Module offered by
Dean of the Faculty of Biology		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
3	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Molecular Neurobiology		03-MLSMN-111-m01
Module coordinator		Module offered by
Dean of the Faculty of Biology		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Molecular Techniques		03-MSMT-111-m01
Module coordinator		Module offered by
Dean of the Faculty of Biology		Faculty of Medicine
ECTS	Method of grading	Only after succ. compl. of module(s)
3	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) Biology (2011) Master's degree (1 major) Biology (2014) Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Methods in Life Sciences		07-MLS1-122-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)
10	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) Biology (2011) Master's degree (1 major) Biology (2014) Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Topics and Concepts in Life Sciences		07-MLS2-122-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)
10	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) Biology (2011) Master's degree (1 major) Biology (2014) Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Research Concepts in Life Sciences		07-MLS3-122-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)
10	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (type, number of weekly contact hours, language — if other than German)		
Ü + 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 can be chosen to earn a 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		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Internship 1		07-MLSEP1-122-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)
10	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Internship 2		07-MLSEP2-122-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)
10	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Excursion 1		07-MLSEX1-122-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		
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 (type, number of weekly contact hours, language — if other than German)		
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Excursion 2		07-MLSEX2-122-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)
10	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (type, number of weekly contact hours, language — if other than German)		
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Graduate Program Seminar Biomedicine 1		07-MLS GP-BM1-122-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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Graduate Program Seminar Biomedicine 2		07-MLS GP-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)
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Graduate Program Seminar Integrative Biology 1		07-MLSGPIB1-122-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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Graduate Program Seminar Integrative Biology 2		07-MLSGPIB2-122-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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Graduate Program Seminar Infection and Immunity 1		07-MLS GP-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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Graduate Program Seminar Infection and Immunity 2		07-MLS-GP-II2-122-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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Graduate Program Seminar Neurosciences 1		07-MLSGP-NS1-122-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 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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Graduate Program Seminar Neurosciences 2		07-MLSGP-NS2-122-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 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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Infection Biology		07-MLSINF-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 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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Special Subject Lecture 1 (actual lectures to be specified)		07-MLSL1-122-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)
10	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (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 can be chosen to earn a 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		
Additional information on module duration: 1 to 2 semesters.		
Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Special Subject Lecture 2 (actual lectures to be specified)		07-MLSL2-122-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)
10	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (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 can be chosen to earn a 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		
Additional information on module duration: 1 to 2 semesters.		
Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Special Subject Lecture 3 (actual lectures to be specified)		07-MLSL3-122-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		
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 (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 can be chosen to earn a 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		
Additional information on module duration: 1 to 2 semesters.		
Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Special Subject Lecture 4 (actual lectures to be specified)		07-MLSL4-122-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		
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 (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 can be chosen to earn a 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		
Additional information on module duration: 1 to 2 semesters.		
Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Special Subject Lecture 5 (actual lectures to be specified)		07-MLSL5-122-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)
3	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
Contents		
Current topics in the field of life sciences.		
Intended learning outcomes		
Students gain an overview of current topics in the life sciences.		
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Special Subject Lecture 6 (actual lectures to be specified)		07-MLSL6-122-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)
3	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Congress Participation 1 (Poster)		07-MLSM1-122-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		
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 can be chosen to earn a bonus)		
poster in accordance with conference specifications Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Congress Participation 2 (Poster) 2		07-MLSM2-122-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		
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 can be chosen to earn a bonus)		
poster in accordance with conference specifications Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Congress Participation (Talk) 1		07-MLSMT1-122-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)
10	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Congress Participation (Talk) 2		07-MLSMT2-122-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)
10	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Biomedicine Lab 1		07-MLSPC-BM1-122-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)
10	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
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)
10	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Integrative Biology Lab 1		07-MLSPC-IB1-122-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)
10	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Integrative Biology Lab 2		07-MLSPC-IB2-122-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)
10	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Infection and Immunity Lab 1		07-MLSPC-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)
10	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Infection and Immunity Lab 2		07-MLSPC-II2-122-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)
10	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Neurosciences Lab 1		07-MLSPC-NS1-122-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)
10	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (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 can be chosen to earn a bonus)		
a) written examination (approx. 30 to 60 minutes, including multiple choice questions) or b) log (10 to 30 pages) or c) oral examination of one candidate each (approx. 30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (approx. 30 to 60 minutes) or e) presentation (approx. 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Neurosciences Lab 2		07-MLSPC-NS2-122-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)
10	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Retreat Biomedicine 1		07-MLSRBM1-122-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		
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Retreat Biomedicine 2		07-MLSRBM2-122-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		
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Research Group Seminar Biomedicine 1		07-MLSRGBM1-122-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		
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Research Group Seminar Biomedicine 2		07-MLSRGBM2-122-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		
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Research Group Seminar Integrative Biology 1		07-MLSRGIB1-122-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		
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Research Group Seminar Integrative Biology 2		07-MLSRGIB2-122-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		
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Research Group Seminar Infection und Immunity 1		07-MLSRGII1-122-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		
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Research Group Seminar Infection und Immunity 2		07-MLSRGII2-122-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		
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Research Group Seminar Neurosciences 1		07-MLSRG-NS1-122-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		
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Research Group Seminar Neurosciences 2		07-MLSRG-NS2-122-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		
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Retreat Integrative Biology 1		07-MLSRIB1-122-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		
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Retreat Integrative Biology 2		07-MLSRIB2-122-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		
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Retreat Infection and Immunity 1		07-MLSR11-122-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		
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Retreat Infection and Immunity 2		07-MLSR112-122-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		
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Retreat Neurosciences 1		07-MLSRNS1-122-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		
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Retreat Neurosciences 2		07-MLSRNS2-122-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		
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 can be chosen to earn a bonus)		
presentation (usually 20 to 45 minutes) Language of assessment: English		
Allocation of places		
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Additional information		
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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Responsible Conduct of Research 1		07-MLSRR1-122-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)
2	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Responsible Conduct of Research 2		07-MLSRR2-122-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)
4	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Responsible Conduct of Research 3		07-MLSRR3-122-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)
6	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

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. <ul style="list-style-type: none"> 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 can be chosen to earn a 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 07-MLST-2-122: -- 07-MLST-1-122: Additional information on module duration: 6 months. 		
Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in
Master's degree (1 major) FOKUS Life Sciences (2012)

Module title		Abbreviation
Special Training Program GSLS 1		07-MLSTP1-122-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		
Transferable skills tutorial: scientific writing and (oral) presentation skills.		
Intended learning outcomes		
The students possess scientific writing and (oral) presentation skills.		
Courses (type, number of weekly contact hours, language — if other than German)		
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Special Training Program GSLS 2		07-MLSTP2-122-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		
Transferable skills tutorial: patent law.		
Intended learning outcomes		
Students have developed an understanding of the fundamental principles of patent law.		
Courses (type, number of weekly contact hours, language — if other than German)		
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Special Training Program GSLS 3		07-MLSTP3-122-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		
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)		
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Tutorial 1		07-MLSTU1-122-m01
Module coordinator		Module offered by
degree programme coordinator Master Life Sciences		Faculty of Biology
ECTS	Method of grading	Only after succ. compl. of module(s)
3	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (type, number of weekly contact hours, language — if other than German)		
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Tutorial 2		07-MLSTU2-122-m01
Module coordinator		Module offered by
degree programme coordinator Master Life Sciences		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		
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 (type, number of weekly contact hours, language — if other than German)		
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Workshop Infection and Immunity 1		07-MLSWII1-122-m01
Module coordinator		Module offered by
degree programme coordinator Master Life Sciences		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		
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Workshop Infection and Immunity 2		07-MLSWII2-122-m01
Module coordinator		Module offered by
degree programme coordinator Master Life Sciences		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		
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Workshop Biomedicine 1		07-MLSWS-BM1-122-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		
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Workshop Biomedicine 2		07-MLSWS-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)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Workshop Integrative Biology 1		07-MLSWS-IB1-122-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		
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Workshop Integrative Biology 2		07-MLSWS-IB2-122-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		
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Workshop Neurosciences 1		07-MLSWS-NS1-122-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		
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Workshop Neurosciences 2		07-MLSWS-NS2-122-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		
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Experimental Sociobiology		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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) Biology (2011) Master's degree (1 major) Biology (2014) Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Neurogenetics of Behavior		07-MS1NB-112-m01
Module coordinator		Module offered by
holder of the Chair of Neurobiology and Genetics		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		
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 <i>Drosophila</i> , the mouse, and the nematode <i>C. elegans</i> .		
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 (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 can be chosen to earn a bonus)		
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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) Biology (2011) Master's degree (1 major) Biology (2014) Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Developmental Neurobiology and Chronobiology		07-MS1NEC-112-m01
Module coordinator		Module offered by
holder of the Chair of Neurobiology and Genetics		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		
Lecture and seminar <i>Endogenous Clocks</i> : 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 <i>Neuronal Development</i> : 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 (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 can be chosen to earn a bonus)		
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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) Biology (2011) Master's degree (1 major) Biology (2014) Master's degree (1 major) FOKUS Life Sciences (2012)		

Module title		Abbreviation
Biochemistry, Physiology and Genetics of Mammalian Cell Culture		07-MSCC-111-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)
5	(not) successfully completed	--
Duration	Module level	Other prerequisites
1 semester	graduate	--
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 (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 can be chosen to earn a 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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Workload		
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Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in		
Master's degree (1 major) Biology (2011) Master's degree (1 major) Biology (2014) Master's degree (1 major) FOKUS Life Sciences (2012)		