



LUDWIG-  
MAXIMILIANS-  
UNIVERSITÄT  
MÜNCHEN



## **Module Catalogue**

### **Master's Program: Neuro-cognitive Psychology**

#### **(Master of Science, M.Sc.)**

**(120 ECTS credits)**

**Based on the *Prüfungs- und Studienordnung* of 27 January 2020**

**88/432/---/M0/H/2019**

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## Abbreviations and annotations

CP	Credit Points, ECTS credits
ECTS	European Credit Transfer and Accumulation System
h	hours
SoSe	summer semester
SWS	contact hours
WiSe	winter semester
WP	compulsory elective course/module
P	mandatory course/module

1. The ECTS credits assigned in the Module Catalogue are designated as follows: Credit Points not listed in parentheses are awarded when the pertinent examination of the module or module parts have/has been completed successfully. Credit Points in parentheses are listed for calculatory purposes only.
2. The semester for taking a module can either be binding or may be considered as a recommendation, depending on the applicable data in Anlage 2 of the Prüfungs- und Studienordnung for your Programme. In this Module catalogue, the options are indicated as „scheduled semester“ and „recommended semester“.
3. Please note: The Module Catalogue is merely intended to serve as an orientation whereas the provisions of the applicable version of the Prüfungs- und Studienordnung (in German only) of your Programme are legally binding. See: [www.lmu.de/studienangebot](http://www.lmu.de/studienangebot) and select your Programme.

## Core aims of the Master's Program Neuro-cognitive Psychology

1. Students on the research-oriented Master's Program Neuro-cognitive Psychology (NCP program) will acquire in-depth knowledge and hands-on competencies regarding current, state-of-the-art conceptual/theoretical and methodological approaches in Neuro-Cognitive Psychology.
2. Given Neuro-cognitive Psychology is a field at the intersection of Experimental Psychology and the Cognitive Neurosciences, students will (learn to) approach the contents from an inherently interdisciplinary perspective, ensured by teaching contributions from Psychology (Experimental, Neuro- and Biological, Developmental, Clinical Psychology), the Neurosciences (Neurobiology, Neurology, Psychiatry, Computational Neuroscience), and related disciplines (Neuro-/Philosophy).
3. As a research-oriented program, training on the NCP program is ultimately designed to equip graduates for undertaking a PhD studies and/or (eventually) a career in academic basic or translational/applied science (including in industry).
4. To this end, students will develop the methodological competencies to independently conduct advanced-level empirical research in the field of neuro-cognitive psychology, in particular: to critically analyze and evaluate extant (published) research findings, theories and methods; to conceptually develop (theoretically grounded) research question; to translate the questions into testable experiments (including choice of appropriate methodological approaches); to set up/realize and conduct the experiments; to analyze the data; to interpret the results and develop their implications for theory; to consider the limitations of the findings; and to communicate the research (in oral presentations and published form) to the wider scientific community, meeting international academic standards.
5. Core methodological competencies (acquired through a combination of lectures/tutorials, seminars/debate – acquired, and practical hands-on work) include behavioral psychophysics, mental chronometry, and neuropsychological patient assessment, and neuroscientific electroencephalography, functional magnetic resonance tomography, and transcranial magnetic stimulation; statistical data analysis and neuro-computational modeling.
6. While the focus is on basic-level, fundamental neuro-cognitive research, students will also develop a sense for translational research in areas where Neuro-Cognitive Psychology can make innovative contributions, such as in neuropsychological/psychiatric diagnostics and treatment.
7. In addition to the acquisition of the scientific core qualifications outlined above, students will become familiar with the ethical issues involved in research with human participants (including patient populations), 'good scientific practice' (including 'open science'), and communicating science to the general public (all qualifications required for developing scientific project proposals and applying for PhD stipends/positions, project funding, etc.).
8. Alongside discipline-specific knowledge and competencies, students will develop networking skills (e.g., by being provided with opportunities for networking with international partner scientists/laboratories) as well as other transferable skills (scientific communication, teamwork, leadership).

## Module: P 1 Neuro-cognitive Psychology I

**Programme** Master's Programme: Neuro-cognitive Psychology  
(Master of Science, M.Sc.)

### Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	P 1.1 Basic Neuro-cognitive Psychology (Lecture)	WiSe	30 h (2 SWS)	60 h	(3)
Seminar	P 1.2 Basic Neuro-cognitive Psychology (Seminar)	WiSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self-study, 180 hours have to be invested.

<b>Module type</b>	Mandatory module with mandatory courses
<b>Usability of the module in other Programmes</b>	Available for students of the Graduate School of Systemic Neurosciences (GSN-LMU)
<b>Elective guidelines</b>	None
<b>Entry requirements</b>	None
<b>Semester</b>	Recommended semester: 1
<b>Duration</b>	The completion of the module takes 1 semester.
<b>Content</b>	Introduction to the cognitive neuroscience of different cognitive functions such as perception, motor control, attention, learning and memory.
<b>Learning outcomes</b>	After successfully completing this module, students will have gained insights into fundamental topics of neuro-cognitive psychology and got a read on current notions concerning attention, perception, learning & memory, and motor control from an integrated experimental-psychological, neurobiological and neuro-computational perspective.
<b>Type of examination</b>	Written exam
<b>Type of assessment</b>	The successful completion of the module will be graded.
<b>Requirements for the gain of ECTS credits</b>	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential elective compulsory module parts) has/have been completed successfully.
<b>Responsible contact</b>	Prof. Dr. Simone Schütz-Bosbach

**Language(s)** English

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**Additional information** None

## Module: P 2 Interdisciplinary Training I

### Programme

Master's Programme: Neuro-cognitive Psychology  
(Master of Science, M.Sc.)

### Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	P 2.1 Current Topics in Neuro-cognitive Psychology	WiSe	30 h (2 SWS)	30 h	(2)
Lecture	P 2.2 Statistical and Computational Neuroscience	WiSe	30 h (2 SWS)	90 h	(4)
Seminar	P 2.3 Special Topics in Neuro-cognitive Psychology	SoSe	30 h (2 SWS)	30 h	(2)
Seminar	P 2.4 Debating Club Seminar	SoSe	30 h (2 SWS)	90 h	(4)

For successful completion of the module, 12 ECTS credits have to be acquired. Class attendance averages about 8 contact hours. Including time for self-study, 360 hours have to be invested.

<b>Module type</b>	Mandatory module with mandatory courses
<b>Usability of the module in other Programmes</b>	None
<b>Elective guidelines</b>	None
<b>Entry requirements</b>	None
<b>Semester</b>	Recommended semester: 1
<b>Duration</b>	The completion of the module takes 2 semesters.
<b>Content</b>	Courses P 2.1 and P 2.3 comprise talks from and discussions with invited national and international guest speakers concerning their latest findings and theories. Course 2.4 is conceptualized as a 'debating club' during which scientific articles will be discussed in terms of: the issue under investigation, the conceptual developmental, the methodology used to investigate it, the data analysis and presentation, and the discussion of the results and their theoretical implications. Course P 2.2 comprises an introduction to topics in statistical and computational neuroscience, such as statistical models, data visualization, neural networks, or coding and representation.
<b>Learning outcomes</b>	After successfully completing this module, students will have (learned to) listen to and discuss other scientists' presentations of their latest, frequently as yet unpublished, research within the field of neuro-cognitive psychology (P 2.1 and P 2.3). Further, students will have learned to critically evaluate ("review") recent published research articles in the field of neurocognitive

psychology (P 2.4). Lastly, students will be equipped with a fundamental understanding of statistical concepts and modeling the nervous system at the cellular and network level (P 2.2).

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<b>Type of examination</b>	Presentation and written report
<b>Type of assessment</b>	The successful completion of the module will not be graded.
<b>Requirements for the gain of ECTS credits</b>	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential elective compulsory module parts) has/have been completed successfully.
<b>Responsible contact</b>	Prof. Dr. Thomas Geyer
<b>Language(s)</b>	English
<b>Additional information</b>	None

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## Module: P 3 Neurosciences I

**Programme** Master's Programme: Neuro-cognitive Psychology  
(Master of Science, M.Sc.)

### Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	P 3.1 Fundamentals in Neuroscience 1 - Lecture	WiSe	60 h (4 SWS)	60 h	(4)
Lecture	P 3.2 Advanced Functional Neuroanatomy	WiSe	15 h (1 SWS)	45 h	(2)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 5 contact hours. Including time for self-study, 180 hours have to be invested.

<b>Module type</b>	Mandatory module with mandatory courses
<b>Usability of the module in other Programmes</b>	Available for students of the Graduate School of Systemic Neurosciences (GSN-LMU)
<b>Elective guidelines</b>	None
<b>Entry requirements</b>	None
<b>Semester</b>	Recommended semester: 1
<b>Duration</b>	The completion of the module takes 1 semester.
<b>Content</b>	Content is an introduction to fundamental principles in neuroscience. The lecture P 3.1 covers topics such as (1) electrophysiology, (2) synapses and networks, (3) motor systems and (4) cognitive neuroscience. The lecture P 3.2 covers selected topics of advanced functional neuroanatomy based on neuro-imaging data.
<b>Learning outcomes</b>	After successfully completing this module, students will have gained insights into fundamental principles in neurosciences and are able to reproduce the covered topics.
<b>Type of examination</b>	Written exam
<b>Type of assessment</b>	The successful completion of the module will be graded.
<b>Requirements for the gain of ECTS credits</b>	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential elective compulsory module parts) has/have been completed successfully.
<b>Responsible contact</b>	Dr. Nadine Gögler

**Language(s)** English

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**Additional information** None

## Module: P 4 Neuro-cognitive Methods I

**Programme** Master's Programme: Neuro-cognitive Psychology  
(Master of Science, M.Sc.)

### Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	P 4.1 Reaction Time and Psychophysical Methods (Lecture)	WiSe	30 h (2 SWS)	60 h	(3)
Seminar	P 4.2 Reaction Time and Psychophysical Methods (Seminar)	WiSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self-study, 180 hours have to be invested.

<b>Module type</b>	Mandatory module with mandatory courses.
<b>Usability of the module in other Programmes</b>	Available for students of the Graduate School of Systemic Neurosciences (GSN-LMU)
<b>Elective guidelines</b>	None
<b>Entry requirements</b>	None
<b>Semester</b>	Recommended semester: 1
<b>Duration</b>	The completion of the module takes 1 semester.
<b>Content</b>	Mental chronometry theory and reaction time analyses, classical psychophysical methods, psychometric functions, adaptive methods and signal detection theory. The seminar includes a full mini research project, from experimental design, data acquisition and analysis, to final report. The results of this practical project will be presented at a student's conference.
<b>Learning outcomes</b>	By the end of the course, students will have gained insights into doing basic psychophysical experiments, basic data analysis and statistical inference.
<b>Type of examination</b>	Written exam
<b>Type of assessment</b>	The successful completion of the module will be graded.
<b>Requirements for the gain of ECTS credits</b>	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential elective compulsory module parts) has/have been completed successfully.

**Responsible contact** PD Dr. Zhuanghua Shi

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**Language(s)** English

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**Additional information** None

## Module: P 5 Neuro-cognitive Methods II

### Programme

Master's Programme: Neuro-cognitive Psychology  
(Master of Science, M.Sc.)

### Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	P 5.1 Electroencephalography and Event-related Potentials Methodology (Lecture)	WiSe	30 h (2 SWS)	60 h	(3)
Seminar	P 5.2 Electroencephalography and Event-related Potentials Methodology (Seminar)	WiSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self-study, 180 hours have to be invested.

<b>Module type</b>	Mandatory module with mandatory courses
<b>Usability of the module in other Programmes</b>	Available for students of the Graduate School of Systemic Neurosciences (GSN-LMU)
<b>Elective guidelines</b>	None
<b>Entry requirements</b>	None
<b>Semester</b>	Recommended semester: 1
<b>Duration</b>	The completion of the module takes 1 semester.
<b>Content</b>	The theoretical part of this module covers neurophysiological fundamentals, basic electrical concepts, technical basics of EEG recording, and selected ERPs. The practical part includes data acquisition and data analysis using Brain Vision Analyzer II and the preparation of a research report.
<b>Learning outcomes</b>	After successfully completing this module, students will have insights into neurophysiological and technical principles of EEG and an understanding of ERPs. Furthermore, students will have acquired practical skills in EEG recording, ERP analysis, and learned how to write an ERP paper.
<b>Type of examination</b>	Written exam
<b>Type of assessment</b>	The successful completion of the module will be graded.
<b>Requirements for the gain of ECTS credits</b>	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential elective compulsory module parts) has/have been completed

successfully.

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**Responsible contact** PD Dr. Thomas Töllner

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**Language(s)** English

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**Additional information** None

## Module: P 6 Neurosciences II

### Programme

Master's Programme: Neuro-cognitive Psychology  
(Master of Science, M.Sc.)

### Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	P 6.1 Neurophilosophy - Lecture	SoSe	30 h (2 SWS)	60 h	(3)
Lecture	P 6.2 Neuropsychiatry and Neuropsychology	SoSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self-study, 180 hours have to be invested.

<b>Module type</b>	Mandatory module with mandatory courses
<b>Usability of the module in other Programmes</b>	Available for students of the Graduate School of Systemic Neurosciences (GSN-LMU)
<b>Elective guidelines</b>	None
<b>Entry requirements</b>	None
<b>Semester</b>	Recommended semester: 2
<b>Duration</b>	The completion of the module takes 1 semester.
<b>Content</b>	Content of the lecture P 6.1 is an overview of the areas: (1) Philosophy of Mind, (2) Anthropology, (3) Philosophy of Science, (4) Neuroscience and the History of Ideas. Content of the lecture P 6.2 is a general introduction into neuropsychiatry.
<b>Learning outcomes</b>	After successfully completing this module, students will have gained insights into some of the main philosophical questions connected with cognitive neurosciences and general strategies of how to deal with these as well as an understanding of theoretical and practical implications of neuropsychiatric disorders.
<b>Type of examination</b>	Written exam
<b>Type of assessment</b>	The successful completion of the module will be graded.
<b>Requirements for the gain of ECTS credits</b>	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential elective compulsory module parts) has/have been completed successfully.
<b>Responsible contact</b>	Dr. Nadine Gögler

**Language(s)** English

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**Additional information** None

## Module: P 7 Neuro-cognitive Methods III

### Programme

Master's Programme: Neuro-cognitive Psychology  
(Master of Science, M.Sc.)

### Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	P 7.1 Functional Magnetic Resonance Imaging: Theory, Design and Analysis (Lecture)	SoSe	30 h (2 SWS)	60 h	(3)
Seminar	P 7.2 Functional Magnetic Resonance Imaging: Theory, Design and Analysis (Seminar)	SoSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self-study, 180 hours have to be invested.

<b>Module type</b>	Mandatory module with mandatory courses
<b>Usability of the module in other Programmes</b>	None
<b>Elective guidelines</b>	None
<b>Entry requirements</b>	None
<b>Semester</b>	Recommended semester: 2
<b>Duration</b>	The completion of the module takes 1 semester.
<b>Content</b>	The course covers the areas of multimodal MRI imaging and is intended to provide a theoretical and practical introduction to the use of MRI.
<b>Learning outcomes</b>	By the end of the course, students will have gained insights into the theoretical underpinnings of MRI, the source of both the general and the functional signal and understand how image reconstruction is done. In addition, students will have critically reviewed relevant literature and interpreted current findings in relation to their own work. Furthermore, students will have gained insights into the conduction and analysis of a basic fMRI experiment by the end of the course.
<b>Type of examination</b>	Written exam
<b>Type of assessment</b>	The successful completion of the module will be graded.
<b>Requirements for the gain of ECTS</b>	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential elective

<b>credits</b>	compulsary module parts) has/have been completed successfully.
<b>Responsible contact</b>	Dr. Daniel Keeser
<b>Language(s)</b>	English
<b>Additional information</b>	None

## Module: P 8 Research Project

**Programme** Master's Programme: Neuro-cognitive Psychology  
(Master of Science, M.Sc.)

### Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Guided scientific work	P 8.1 Lab Rotation	SoSe	-	360 h	(12)

For successful completion of the module, 12 ECTS credits have to be acquired. Class attendance averages about 0 contact hours. Including time for self-study, 360 hours have to be invested.

<b>Module type</b>	Mandatory module with mandatory courses
<b>Usability of the module in other Programmes</b>	None
<b>Elective guidelines</b>	None
<b>Entry requirements</b>	None
<b>Semester</b>	Recommended semester: 2
<b>Duration</b>	The completion of the module takes 9 weeks during the summer semester break.
<b>Content</b>	The research project consists of a supervised experimental and/or computational study on a current research issue, documented by a project report in the format of a scientific publication. Students should work in total for 360 hours on their project during a 9-week project period. The final week of the project (= 40 hours) should be reserved for the supervised preparation of the written report.
<b>Learning outcomes</b>	The aim of the research project is to gain experience in general skills of scientific working and good laboratory practice. The student should learn how to conduct independent research, which includes the planning of an (empirical) experimental study, data collection, statistical analyses and a summary of the findings in the format of a scientific publication.
<b>Type of examination</b>	Scientific report
<b>Type of assessment</b>	The successful completion of the module will be graded.
<b>Requirements for the gain of ECTS credits</b>	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential elective

compulsary module parts) has/have been completed successfully.

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**Responsible contact** PD Dr. Markus Conci

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**Language(s)** English

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**Additional information** None

## Module: P 9 Neuro-cognitive Psychology II

### Programme

Master's Programme: Neuro-cognitive Psychology  
(Master of Science, M.Sc.)

### Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	P 9.1 Advanced Neuro-cognitive Psychology (Lecture)	WiSe	30 h (2 SWS)	60 h	(3)
Seminar	P 9.2 Advanced Neuro-cognitive Psychology (Seminar)	WiSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self-study, 180 hours have to be invested.

<b>Module type</b>	Mandatory module with mandatory courses
<b>Usability of the module in other Programmes</b>	Available for students of the Graduate School of Systemic Neurosciences (GSN-LMU)
<b>Elective guidelines</b>	None
<b>Entry requirements</b>	None
<b>Semester</b>	Recommended semester: 3
<b>Duration</b>	The completion of the module takes 1 semester.
<b>Content</b>	Advanced introduction to the cognitive neuroscience of various brain functions and mental processing such as perception, motor control, attention, learning and memory.
<b>Learning outcomes</b>	After successfully completing this module, students will have gained insights into fundamental topics of neuro-cognitive psychology and got a read on current notions concerning attention, perception, learning & memory, and motor control from an integrated experimental-psychological, neurobiological and neuro-computational perspective at an advanced level.
<b>Type of examination</b>	Written exam
<b>Type of assessment</b>	The successful completion of the module will be graded.
<b>Requirements for the gain of ECTS credits</b>	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential elective compulsory module parts) has/have been completed successfully.

**Responsible contact** Prof. Dr. Simone Schütz-Bosbach

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**Language(s)** English

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**Additional information** None

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## Module: P 10 Neuro-cognitive Methods IV

### Programme

Master's Programme: Neuro-cognitive Psychology  
(Master of Science, M.Sc.)

### Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Lecture	P 10.1 Neuropsychology and Brain Stimulation Techniques (Lecture)	WiSe	30 h (2 SWS)	60 h	(3)
Seminar	P 10.2 Neuropsychology and Brain Stimulation Techniques (Seminar)	WiSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self-study, 180 hours have to be invested.

<b>Module type</b>	Mandatory module with mandatory courses
<b>Usability of the module in other Programmes</b>	Available for students of the Graduate School of Systemic Neurosciences (GSN-LMU)
<b>Elective guidelines</b>	None
<b>Entry requirements</b>	None
<b>Semester</b>	Recommended semester: 3
<b>Duration</b>	The completion of the module takes 1 semester.
<b>Content</b>	The contents of this module include an introduction to neuropsychology as well as a theoretical outline and practical training in brain stimulation techniques and its use in cognitive neurosciences.
<b>Learning outcomes</b>	By the end of the course, students will firstly have learned the key principles underlying interpretation of neuropsychology and brain stimulation. Secondly, they will gain an appreciation of the limits of these techniques. Thirdly, they will have exercised their creative ability in recognizing which methodological developments are necessary for future work.
<b>Type of examination</b>	Written exam
<b>Type of assessment</b>	The successful completion of the module will be graded.
<b>Requirements for the gain of ECTS credits</b>	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential elective compulsory module parts) has/have been completed successfully.

**Responsible contact** Prof. Dr. Paul Taylor

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**Language(s)** English

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**Additional information** None

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## Module: P 11 Interdisciplinary Training II

### Programme

Master's Programme: Neuro-cognitive Psychology  
(Master of Science, M.Sc.)

### Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	P 11.1 Research Seminars in Neuro-cognitive Psychology	WiSe	30 h (2 SWS)	30 h	(2)
Seminar	P 11.2 Current Debates in Neuro-cognitive Psychology	WiSe	30 h (2 SWS)	90 h	(4)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self-study, 180 hours have to be invested.

<b>Module type</b>	Mandatory module with mandatory courses
<b>Usability of the module in other Programmes</b>	None
<b>Elective guidelines</b>	None
<b>Entry requirements</b>	None
<b>Semester</b>	Recommended semester: 3
<b>Duration</b>	The completion of the module takes 1 semester.
<b>Content</b>	Course P 11.1 comprises talks from and discussions with invited national and international guest speakers concerning their latest findings and theories. Course 11.2 is conceptualized as a 'debating club' during which scientific articles on current notions in neuro-cognitive psychology will be discussed.
<b>Learning outcomes</b>	The objective of P 11.1 is to provide a setting and structure that together makes it possible for each student to learn about other scientists' current research work, including experiences on how to discuss these findings. Further, students will be able to judge (i.e., critically evaluate) the scientific quality of original and review articles published in different fields of neuro-cognitive psychology (P 11.2).
<b>Type of examination</b>	Presentation and written report
<b>Type of assessment</b>	The successful completion of the module will not be graded.
<b>Requirements for the gain of ECTS credits</b>	ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential elective compulsory module parts) has/have been completed

successfully.

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<b>Responsible contact</b>	Prof. Dr. Thomas Geyer
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<b>Language(s)</b>	English
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<b>Additional information</b>	None
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## Module: WP 1 Neuro-cognitive Research General Psychology

**Programme** Master's Programme: Neuro-cognitive Psychology  
(Master of Science, M.Sc.)

### Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	WP 1.1 Basic Cognitive Neurosciences - General Psychology: Theory and Methods	WiSe	30 h (2 SWS)	60 h	(3)
Seminar	WP 1.2 Basic Cognitive Neurosciences - General Psychology: Empirical Work	WiSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self-study, 180 hours have to be invested.

<b>Module type</b>	Compulsory elective module with mandatory courses
<b>Usability of the module in other Programmes</b>	None
<b>Elective guidelines</b>	The module can be chosen in compliance with the following rules: With regard to the compulsory elective modules WP 1 and WP 2, one compulsory elective module must be taken.
<b>Entry requirements</b>	None
<b>Semester</b>	Recommended semester: 3
<b>Duration</b>	The completion of the module takes 1 semester.
<b>Content</b>	The module focuses on a major topic from a basic research theme in cognitive/experimental psychology. In the theoretical part of the seminar, an overview of relevant studies and methods will be provided by means of lecture sessions and paper presentations. In an additional, empirical part of the seminar, an experimental study will be developed and realized with the aim to investigate a novel research question.
<b>Learning outcomes</b>	Students will acquire theoretical knowledge as well as experimental expertise on a circumscribed research topic in general and experimental psychology.
<b>Type of examination</b>	Written report
<b>Type of assessment</b>	The successful completion of the module will be graded.
<b>Requirements for the gain of ECTS</b>	ECTS credits will be granted when the module examination (or the

**credits** examination of pertinent mandatory and potential elective compulsory module parts) has/have been completed successfully.

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**Responsible contact** PD Dr. Markus Conci

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**Language(s)** English

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**Additional information** None

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## Module: WP 2 Neuro-cognitive Research Biological Psychology

**Programme** Master's Programme: Neuro-cognitive Psychology  
(Master of Science, M.Sc.)

### Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	WP 2.1 Basic Cognitive Neurosciences - Biological Psychology: Theory and Methods	WiSe	30 h (2 SWS)	60 h	(3)
Seminar	WP 2.2 Basic Cognitive Neurosciences - Biological Psychology: Empirical Work	WiSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self-study, 180 hours have to be invested.

<b>Module type</b>	Compulsory elective module with mandatory courses
<b>Usability of the module in other Programmes</b>	None
<b>Elective guidelines</b>	The module can be chosen in compliance with the following rules: With regard to the compulsory elective modules WP 1 and WP 2, one compulsory elective module must be taken.
<b>Entry requirements</b>	None
<b>Semester</b>	Recommended semester: 3
<b>Duration</b>	The completion of the module takes 1 semester.
<b>Content</b>	The module focuses on a major topic from a basic research theme in biological psychology. In the theoretical part of the seminar, an overview of relevant studies and methods will be provided by means of lecture sessions and paper presentations. In an additional, empirical part of the seminar, an experimental study will be developed and realized with the aim to investigate a novel research question.
<b>Learning outcomes</b>	Students will acquire theoretical knowledge as well as experimental expertise on a circumscribed research topic in biological psychology.
<b>Type of examination</b>	Written report
<b>Type of assessment</b>	The successful completion of the module will be graded.
<b>Requirements for the gain of ECTS</b>	ECTS credits will be granted when the module examination (or the

<b>credits</b>	examination of pertinent mandatory and potential elective compulsory module parts) has/have been completed successfully.
<b>Responsible contact</b>	PD Dr. Markus Conci
<b>Language(s)</b>	English
<b>Additional information</b>	None

## Module: WP 3 Neuro-cognitive Research Neuropsychology

### Programme

Master's Programme: Neuro-cognitive Psychology  
(Master of Science, M.Sc.)

### Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	WP 3.1 Applied Cognitive Neurosciences - Neuropsychology: Theory and Methods	WiSe	30 h (2 SWS)	60 h	(3)
Seminar	WP 3.2 Applied Cognitive Neurosciences - Neuropsychology: Empirical Work	WiSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self-study, 180 hours have to be invested.

<b>Module type</b>	Compulsory elective module with mandatory courses
<b>Usability of the module in other Programmes</b>	None
<b>Elective guidelines</b>	The module can be chosen in compliance with the following rules: With regard to the compulsory elective modules WP 3 and WP 4, one compulsory elective module must be taken.
<b>Entry requirements</b>	None
<b>Semester</b>	Recommended semester: 3
<b>Duration</b>	The completion of the module takes 1 semester.
<b>Content</b>	The module focuses on a major topic from a basic research theme in neuropsychology. In the theoretical part of the seminar, an overview of relevant studies and methods will be provided by means of lecture sessions and paper presentations. In an additional, empirical part of the seminar, an experimental study will be developed and realized with the aim to investigate a novel research question.
<b>Learning outcomes</b>	Students will acquire theoretical knowledge as well as experimental expertise on a circumscribed research topic in neuropsychology.
<b>Type of examination</b>	Written report
<b>Type of assessment</b>	The successful completion of the module will be graded.
<b>Requirements for the gain of ECTS</b>	ECTS credits will be granted when the module examination (or

**credits** the examination of pertinent mandatory and potential elective compulsory module parts) has/have been completed successfully.

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**Responsible contact** Dr. Nadine Gögler

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**Language(s)** English

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**Additional information** None

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## Module: WP 4 Neuro-cognitive Research Clinical Psychology

### Programme

Master's Programme: Neuro-cognitive Psychology  
(Master of Science, M.Sc.)

### Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Seminar	WP 4.1 Applied Cognitive Neurosciences - Clinical Psychology: Theory and Methods	WiSe	30 h (2 SWS)	60 h	(3)
Seminar	WP 4.2 Applied Cognitive Neurosciences - Clinical Psychology: Empirical Work	WiSe	30 h (2 SWS)	60 h	(3)

For successful completion of the module, 6 ECTS credits have to be acquired. Class attendance averages about 4 contact hours. Including time for self-study, 180 hours have to be invested.

<b>Module type</b>	Compulsory elective module with mandatory courses
<b>Usability of the module in other Programmes</b>	None
<b>Elective guidelines</b>	The module can be chosen in compliance with the following rules: With regard to the compulsory elective modules WP 3 and WP 4, one compulsory elective module must be taken.
<b>Entry requirements</b>	None
<b>Semester</b>	Recommended semester: 3
<b>Duration</b>	The completion of the module takes 1 semester.
<b>Content</b>	The module focuses on a major topic from a basic research theme in clinical psychology. In the theoretical part of the seminar, an overview of relevant studies and methods will be provided by means of lecture sessions and paper presentations. In an additional, empirical part of the seminar, an experimental study will be developed and realized with the aim to investigate a novel research question.
<b>Learning outcomes</b>	Students will acquire theoretical knowledge as well as experimental expertise on a circumscribed research topic in clinical psychology.
<b>Type of examination</b>	Written report
<b>Type of assessment</b>	The successful completion of the module will be graded.
<b>Requirements for the gain of ECTS</b>	ECTS credits will be granted when the module examination (or

**credits** the examination of pertinent mandatory and potential elective compulsory module parts) has/have been completed successfully.

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**Responsible contact** Dr. Nadine Gögler

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**Language(s)** English

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**Additional information** None

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## Module: P 12 Final Module

**Programme** Master's Programme: Neuro-cognitive Psychology  
(Master of Science, M.Sc.)

### Related module parts

Course type	Course (mandatory)	Rotation	Contact hours	Self-study hours	ECTS
Masterarbeit	P 12.1 Master's Thesis	SoSe	-	900 h	(30)

For successful completion of the module, 30 ECTS credits have to be acquired. Including time for self-study, 900 hours have to be invested.

**Module type** Mandatory module

**Usability of the module in other Programmes** None

**Elective guidelines** None

**Entry requirements** Successful completion of the modules P1 – P8

**Semester** Recommended semester: 4

**Duration** The completion of the module takes 1 semester.

**Content** The master thesis summarizes a final research project in the study program. It is intended to demonstrate that the student is capable to work independently on a given scientific question.

**Learning outcomes** The master thesis aims to demonstrate that the student is able to independently cope with an adequately demanding scientific question that also includes the possibility to unfold individual ideas.

**Type of examination** Master's thesis

**Type of assessment** The successful completion of the module will be graded.

**Requirements for the gain of ECTS credits** ECTS credits will be granted when the module examination (or the examination of pertinent mandatory and potential elective compulsory module parts) has/have been completed successfully.

**Responsible contact** PD Dr. Markus Conci

**Language(s)** English

**Additional information** None