



LUDWIG-
MAXIMILIANS-
UNIVERSITÄT
MÜNCHEN



Module handbook

Master Studies in Psychology: Learning Sciences (Master of Science, M.Sc.)

(120 ECTS-Points)

Based on the Examination and Study Regulations of 13th August 2014

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Note. Solely the German version is legally binding!!

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Abbreviations and Explanations

CP	Credit Points, ECTS Points
ECTS	European Credit Transfer and Accumulation System
h	Hours
SoSe	Summer semester
SWS	Number of semester weeks
WiSe	Winter semester
WP	Elective
P	Compulsory

1. The description of the module parts occurs with respect to the following information on ECTS points: ECTS points which appear without brackets in the transcript correspond to the credits awarded for the successful completion of the corresponding module examination or partial module examination. ECTS points which appear in brackets are merely informational.
2. The point in time to take certain courses is defined in Appendix 2 of the examination regulations as either compulsory or recommended, referred to in the module handbook as "semester" and "Recommended semester", respectively.
3. Please note: The module handbook is merely a guide for your course of study. For binding regulations please consult the currently valid version of the examination regulations. These can be found on www.lmu.de/studienangebot under your respective course.

Module: P 1 Introduction to Psychology of Development, Learning and Excellence

Assignment to the Degree Program

Master Study Program in Psychology: Learning Sciences
(Master of Science, M.Sc.)

Assigned module parts

Medium of teaching	Courses (Compulsory)	Study Semester	Number of in-class hours	Independent Work	ECTS
Seminar	P 1.1 Introduction to Cognition, Emotion, Learning and Development	WiSe	30 h (2 SWS)	60 h	(3)
Seminar	P 1.2 Introduction to Learning, Instruction, Training and Technology	WiSe	30 h (2 SWS)	60 h	(3)
Seminar	P 1.3 Introduction to Psychology of Excellence	WiSe	30 h (2 SWS)	60 h	(3)
Seminar	P 1.4 Introduction to Neuro-Cognitive Aspects of Learning and Development	WiSe	30 h (2 SWS)	60 h	(3)
Seminar	P 1.5 Introduction to Approaches in Organizational Learning	WiSe	30 h (2 SWS)	60 h	(3)

For each module, the student will be awarded a total of 15 ECTS credits. In-class hours are comprised within the 10 semester weeks. Including dependent studying, a total of 450 hours of work are required.

Type of Module	Compulsory module with compulsory courses
Applicability of the module to other courses	Doctoral Training Program in the Learning Sciences PhD in the Learning Sciences
Elective Regulations	None
Prerequisites	None
Point of time during the Study Period	Recommended Semester: 1
Duration	The module is covered over 1 semester.
Content	In this module, centralized approaches to teaching and research on learning are with reference to cognition, emotion, learning, development, neuro-psychology, and to educational and clinical psychology. P 1.1 Introduction to Cognition, Emotion, Learning and Development

The theoretical and empirical bases of the course-relevant

aspects of cognition, emotion, learning and developmental psychology are reviewed and expanded upon. In particular, basic theories and classical topics of cognitive, emotion, learning and developmental psychology are taught and discussed.

P 1.2 Introduction to Learning, Instruction, Training and Technology

Central instructional approaches and concepts to learning, cognition and teaching methods are presented with digital media and discussed based on fundamental learning concepts and theories in this seminar. The design of conducive learning environments and the use of digital technologies can be used to support self-directed learning.

P 1.3 Introduction to Psychology of Excellence

The course is dedicated to models for the prediction of academic and non-academic achievements. One of the main focuses is on concepts of cognitive, affective and socialization-related predictors of performance (z. B. intelligence, creativity, "need for cognition", self-concept, motivation, parents, peers). On that basis, opportunities to develop optimally designed environments are generated to promote excellence.

P 1.4 Introduction to Neuro-Cognitive Aspects of Learning and Development

This seminar provides students basic neuro-cognitive aspects of learning and development. Methodological and paradigmatic basics of neuro-cognitive psychology are presented and illustrated with examples from learning and development, discussed in depth. These examples include basic and current phenomena and theories from the fields of memory, learning (e.g. semantics and action-based learning), development and plasticity.

P 1.5 Introduction to Approaches in Organizational Learning

In this seminar, classical organizational theories are introduced and new approaches (e.g. Learning organizations, systemic approaches, neo-institutionalism) are compared and discussed. Moreover, relevance and influence of social networks are discussed as social control mechanisms on organizations. The fundamental bases taught and discussed in the context of organizational development theories include staff recruitment, criteria and methods of employee retention, person-organization fit, Leadership and aims, methods and content for human resource development in organizations.

Learning Aims

Students will gain a central theoretical understanding to teaching and learning and research and will be able to gain a

practical understanding to the implications by reviewing and applying the theories.

P 1.1 Introduction to Cognition, Emotion, Learning and Development

The aim of the seminar is to offer an understanding of central theories and an overview of central findings. By the end of the seminar, it is expected that the students are able to compare theories and findings and critically reflect upon them.

P 1.2 Introduction to Learning, Instruction, Training and Technology

Students gain an overview of different instructional methods such as learning and teaching concepts using digital media, have an understanding of these and are able to apply their design and analysis of technology in the context of enhanced learning environments. They thereby are able to reflect critically upon the use of digital technology in learning and teaching.

P 1.3 Introduction to Psychology of Excellence

The students acquire knowledge of factors for predicting academic and non-academic performance. They learn how to derive practical implications based on empirical findings based on historical and current research approaches.

P 1.4 Introduction to Neuro-Cognitive Aspects of Learning and Development

The students gain knowledge about basic theories and methods of neurocognitive aspects of learning and development and develop the competence for critical reflection with hindsight and draw conclusions about the practical application of theories.

P 1.5 Introduction to Approaches in Organizational Learning

The students are able to compare and evaluate classical and recent organizational theories. They also acquire basic organizational and personal development theories and assess those. Thus, students shall gain the ability to apply various theories and findings to the analysis of organizations.

Form of Module Examination

Final Examination (60-120 Minutes) or

Oral Presentation (30-45 Minutes) or

Coursework (36.000 – max. 72.000 Characters) or

Oral Presentation (15-30 Minutes) and Coursework (18.000 – max. 36.000 characters)

More concrete examination details (Form and duration of examination) will be made available at the start of the semester.

Type of Evaluation

The module is graded.

Requirements for the award of ECTS points

ECTS points will be awarded upon successful completion of module examinations (i.e. of compulsory and Elective Compulsory examinations).

Module Organizer

Carolin Schwab (Program Coordinator)

Language

English

Other Information

None

Module: P 2 Evaluation and Research Methods

Assignment to the Degree Program Master studies in Psychology: Learning Sciences (Master of Science, M.Sc.)

Corresponding module part

Medium of Teaching	Courses (Compulsory)	Study Semester	In-class time	Independent study time	ECTS
Seminar	P 2.1 Measuring Learning and Change - Part 1	WiSe	45 h (3 SWS)	135 h	(6)
Seminar	P 2.2 Measuring Learning and Change - Part 2	SoSe	45 h (3 SWS)	135 h	(6)

For each module, the student will be awarded a total of 12 ECTS credits. In-class hours are comprised within the 6 semester weeks. Including dependent studying, a total of 360 hours of work are required.

Type of Module Compulsory module with compulsory courses

Applicability of the module to other courses Doctoral Training Program in the Learning Sciences
PhD in the Learning Sciences

Elective Regulations None

Prerequisites None

Point of time during the Study Period Recommended Semester: 1 and 2

Duration The module extends over two semesters.

Content The module facilitates the development of solid knowledge and abilities in the planning and delivering of empirical research, in statistical analysis and interpretation of data and in the publication of findings in the international academic field.

The courses offered as part of the module cover basic statistical methods and educational research methods such as the analysis of variance, regressions, factorial equations, multilevel analysis and structural equation modeling.

Based on a current research, empirical data is evaluated using statistical methods and treated in its practical relevance according to the method's theoretical background.

Learning Aims Students will acquire the ability to plan empirical studies, collect data and interpret findings of data related to learning and teaching with the help of statistical procedures used for the analysis as well as for the interpretation of data.

As part of this module, students also discover methods of pedagogical and psychological evaluation and learn how to

apply them. They also gain expertise in dealing with statistical software.

Form of Module Examination

Final Examination (60-120 Minutes) or
Oral Presentation (30-45 Minutes) or
Coursework (36.000 – max. 72.000 Characters) or
Oral Presentation (15-30 Minutes) and Coursework (18.000 – max. 36.000 Characters)
Practical considerations for exams (Form of module examination and duration) are made available at the start of the information.

Type of Evaluation

The module is graded.

Requirements for the award of ECTS points

The ECTS points are awarded upon successful completion of module examinations (i.e. for compulsory modules as well as for Elective Compulsory modules).

Module Organizer

Prof. Dr. Moritz Heene

Language

English

Other Information

None

Module: P 3 Assessment and Diagnostic Methods

Assignment to the Degree Program Master studies in Psychology: Learning Sciences (Master of Science, M.Sc.)

Corresponding module part

Medium of teaching	modules (compulsory)	Study semester	In-class time	Independent study time	ECTS
Seminar	P 3.1 Educational and Psychological Assessment and Testing - Part 1	WiSe	45 h (3 SWS)	135 h	(6)
Seminar	P 3.2 Educational and Psychological Assessment and Testing - Part 2	SoSe	45 h (3 SWS)	135 h	(6)

For each module, the student will be awarded a total of 12 ECTS credits. In-class hours are comprised within the 6 semester weeks. Including dependent studying, a total of 360 hours of work are required.

Type of Module Compulsory and Elective Compulsory modules

Applicability of the module to other courses Doctoral Training Program in the Learning Sciences
PhD in the Learning Sciences

Elective Regulations None

Prerequisites None

Point of time during the Study Period Recommended Semester: 1 and 2

Duration The module extends over 2 Semester.

Content

The module shall provide solid knowledge and abilities in the planning and delivering of diagnostic measures.

The courses covered give an insight into specific aspects of the pedagogical-psychological diagnostics, in particular in relation to the methods used. The diagnostic methods in areas of intelligence, attention, motivation, reading, writing and arithmetics are presented and discussed.

Further practical aspects of psychometrics such as how to construct questionnaires and evaluate performance tests are also considered.

Therefore, possibilities and limitations of social science-based research are covered.

Learning Aims Students will acquire the ability to plan, run and interpret findings of individual diagnostics with the help of statistical

tools.

They shall also acquire knowledge on a wide range of theories and methods for pedagogical-psychological assessment and be able to apply them.

In addition, students learn to develop and validate diagnostic test procedures and develop an expertise in critically reflecting upon various psychological research methods used.

Type of Module Examination	Final Examination (60-120 Minutes) or Presentation (30-45 Minutes) or Coursework (36.000 – max. 72.000 Characters) or Talk (15-30 Minutes) and Coursework (18.000 – max. 36.000 Characters) Practical considerations for exams (form and duration of module examination) are made available at the start of the semester.
	The module is graded.
Requirements for the award of ECTS points	The ECTS points are awarded upon successful completion of module examinations (i.e. for compulsory modules as well as for Elective Compulsory modules).
Module organizer	Prof. Dr. Moritz Heene
Language	English
Other Information	None

Module: P 4 Transferable Skills

Assignment to the Degree Program Master studies in Psychology: Learning Sciences (Master of Science, M.Sc.)

Corresponding module part

Medium of teaching	modules (compulsory)	Study semester	In-class time	Independent study time	ECTS
Seminar	P 4.1 Transferable Skills for the Learning Sciences	WiSe	30 h (2 SWS)	60 h	(3)

For each module, the student will be awarded a total of 3 ECTS credits. In-class hours are comprised within the 2 semester weeks. Including dependent studying, a total of 90 hours of work are required.

Type of Module Compulsory and Elective Compulsory modules

Applicability of the module to other courses None

Elective Regulations None

Prerequisites None

Point of time during the Study Period Recommended Semester: 1

Duration The module extends over 1 Semester.

Content The module covers the topics of learning transfer and career prospects in the field of the Learning Sciences and provides an overview of relevant necessary skills.

For this purpose, guest speakers will be invited to offer insight into their work life and to discuss universal competencies relevant in their field.

Learning Aims Students acquire relevant competencies for instance on self-, time- and project management and are given the opportunity to build a network within various professional fields in the Learning Sciences.

Form of Module Examination Final Examination (30-60 Minutes) or Coursework (18.000 – max. 36.000 Characters) or Oral Presentation (15-30 Minutes)

Practical considerations for exams (form and duration of module examination) are made available at the start of the semester.

Type of Evaluation	The module is not graded.
Requirements for the award of ECTS points	The ECTS points are awarded upon successful completion of module examinations (i.e. for compulsory modules as well as for Elective Compulsory modules).
Module Organizer	Prof. Dr. Anne Frenzel
Language	English
Other Information	None

Module: P 5 Educational Perspectives in the Learning Sciences

Assignment to the Degree Program Master studies in Psychology: Learning Sciences (Master of Science, M.Sc.)

Corresponding module part

Medium of teaching	modules (compulsory)	Study semester	In-class time	Independent study time	ECTS
Seminar	P 5.1 Educational Systems and Achievement	SoSe	30 h (2 SWS)	60 h	(3)
Seminar	P 5.2 Counseling in Educational Contexts	WiSe	30 h (2 SWS)	60 h	(3)

For each module, the student will be awarded a total of 6 ECTS credits. In-class hours are comprised within the 4 semester weeks. Including dependent studying, a total of 180 hours of work are required.

Type of Module	Compulsory and Elective Compulsory modules
Applicability of the module to other courses	Masters in educational research or educational management
Elective Regulations	None
Prerequisites	None
Point of time during the Study Period	Recommended Semester: 2 and 3
Duration	The module extends over 2 Semester.
Content	<p>In module 5.1, students are presented with the basic structure of education systems and knowledge of indicators used for assessing the quality and effectiveness of education systems.</p> <p>Different national educational systems are also discussed.</p> <p>In addition, theoretical conceptualizations of the term "consultation" will be presented as separate from the term "therapy". Students will also cover basic counseling models and their applications in education.</p> <p>Practical exercises are carried out in pairs or in or groups in order to review theoretical principles and basic skills based on principles of education are critically discussed.</p>
Learning Aims	<p>Students are able to evaluate education systems from an organizational psychology perspective.</p> <p>They gain an overview of the various educational systems, their output and influencing factors (national policy, founding strategies, etc.).</p>

Students are made able to recognize indicators of reliable sources so that they can interpret the relationship between the measurement result and output of education systems.

They are able to recognize the cultural and historical context of education systems and to question the possibility of transfer.

They will moreover have acquired knowledge of basic theories and models which are and more specifically related to educational counseling. In addition, they can critically reflect and apply the theories and models.

Form of Module Examination	Final Examination (30-60 Minutes) or Coursework (18.000 – max. 36.000 Characters) or Oral Presentation (15-30 Minutes) Practical considerations for exams (form and duration of module examination) are made available at the start of the semester.
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Type of Evaluation	The module is not graded.
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Requirements for the award of ECTS points	The ECTS points are awarded upon successful completion of module examinations (i.e. for compulsory modules as well as for Elective Compulsory modules).
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Module Organizer	Prof. Dr. Rudolf Tippelt
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Language	English
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Other Information	None
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Module: WP 1 Learning in Specific Domains I

Assignment to the Degree Program Master studies in Psychology: Learning Sciences (Master of Science, M.Sc.)

Corresponding module part

Medium of teaching	Module (Elective Compulsory)	Study semester	In-class time	Independent study time	ECTS
Small Group class	WP 1.0.1 Learning in Biology	SoSe	30 h (2 SWS)	60 h	(3)
Small group class	WP 1.0.2 Learning in Mathematics	SoSe	30 h (2 SWS)	60 h	(3)
Small group class	WP 1.0.3 Learning in Language	SoSe	30 h (2 SWS)	60 h	(3)

The student will be awarded a total of 3 ECTS points for the module. 3 of the ECTS points are Elective Compulsory modules. In-class hours are comprised within the 2 semester weeks. Including dependent studying, a total of 90 hours of work are required.

Type of Module Elective Compulsory module with Elective Compulsory events

Applicability of the module to other courses Doctoral Training Program in the Learning Sciences
PhD in the Learning Sciences
Teaching: „free domain“

Elective Regulations The module can be chosen from the following subjects:

An elective range of modules should be selected from the options in "Learning in Specific Domains" and "Clinical Psychology".

For this purpose, out of the elective modules WP 1, WP 2, WP 6 and WP 7, there are
1. the Elective Compulsory modules WP1 and WP6 from the Elective Compulsory module "Learning in Specific Domains"
2. the Elective Compulsory modules WP2 and WP7 from the Elective Compulsory module "Clinical Psychology"

It is stipulated that for Elective Compulsory events of the module, an elective course should be selected from the elective courses WP 1.0.1 to WP 1.0.3.

Prerequisites None

Point of time during the Study Period Recommended Semester: 2

Duration The module extends over 1 Semester.

Content The module covers the question of how learning processes

differ depending on the content to be learned.

Theoretical models of subject-specific teaching / learning research and their implementation in practice such as methods for the analysis of domain-specific learning processes are considered.

Students shall approach the question from an empirical didactics perspective, covering empirical findings in the field of didactics and implementing them in practice in the context of secondary and tertiary education.

Learning Aims	<p>Students will learn about basic models of subject-specific teaching-learning research and their implementation in practice and methods learned for the investigation of specialized learning.</p> <p>In addition, they will be able to work across disciplines. They may implement current theories of didactics and / or perform their own investigation in the field of empirical subject-specific didactics.</p>
Form of Module Examination	<p>Final Examination (30-60 Minutes) or</p> <p>Coursework (18.000 – max. 36.000 Characters) or</p> <p>Oral Presentation (15-30 Minutes)</p> <p>Practical considerations for exams (form and duration of module examination) are made available at the start of the semester.</p>
Type of Evaluation	<p>The module is not graded.</p>
Requirements for the award of ECTS points	<p>The ECTS points are awarded upon successful completion of module examinations (i.e. for compulsory modules as well as for Elective Compulsory modules).</p>
Module Organizer	<p>Carolin Schwab (Program coordinator)</p>
Language	<p>English</p>
Other Information	<p>None</p>

Module: WP 2 Clinical Psychology I

Assignment to the Degree Program Master studies in Psychology: Learning Sciences (Master of Science, M.Sc.)

Corresponding module part

Medium of teaching	Modules (compulsory)	Study semester	In-class time	Independent study time	ECTS
Seminar	WP 2.1 Developmental Psychopathology	SoSe	30 h (2 SWS)	60 h	(3)

The student will be awarded a total of 3 ECTS points for the module. In-class hours are comprised within the 2 semester weeks. Including dependent studying, a total of 90 hours of work are required.

Type of Module Elective Compulsory modules with Elective Compulsory events

Applicability of the module to other courses None

Elective Regulations The module may be chosen on the following basis:

An elective range of modules should be selected from the elected courses "Learning in Specific Domains" and "Clinical Psychology".

Elective Compulsory modules WP 1, WP 2, WP 6 and WP 7 are thereby to be chosen:

1. from the Elective Compulsory modules WP1 and WP6 in "Learning in Specific Domains"
2. from the Elective Compulsory modules WP2 and WP7 in „Clinical Psychology“

Prerequisites None

Point of time during the Study Period Recommended Semester: 2

Duration The module extends over 1 Semester.

Content Disorders from a developmental perspective are examined in this module.

Learning Aims Students are able to recognize various disorders and identify appropriate therapies to treat these disorders.

Form of Module Examination Final Examination (30-60 Minutes) or Coursework (18.000 – max. 36.000 Characters) or

Oral Presentation (15-30 Minutes)

Practical considerations for exams (form and duration of module examination) are made available at the start of the semester.

Type of Evaluation

The module is not graded.

Requirements for the award of ECTS points

The ECTS points are awarded upon successful completion of module examinations (i.e. for compulsory modules as well as for Elective Compulsory modules).

Module Organizer

Prof. Dr. Beate Sodian

Language

English

Other Information

None

Module: WP 3 Cognition, Emotion, Learning and Development

Assignment to the Degree Program

Master studies in Psychology: Learning Sciences (Master of Science, M.Sc.)

Corresponding module part

Medium of teaching	Modules (compulsory)	Study semester	In-class time	Independent study time	ECTS
Seminar	WP 3.1 Special Issues in Cognition, Emotion, Learning and Development	SoSe	45 h (3 SWS)	135 h	(6)
Seminar	WP 3.2 Assessment and Test Procedures in Cognition, Emotion, Learning and Development	WiSe	45 h (3 SWS)	105 h	(5)
Seminar	WP 3.3 Research Seminar in Cognition, Emotion, Learning and Development	WiSe	30 h (2 SWS)	0 h	(1)

The student will be awarded a total of 12 ECTS points for the module. In-class hours are comprised within the 8 semester weeks. Including dependent studying, a total of 360 hours of work are required.

Type of Module	Elective Compulsory module with compulsory activities.
Applicability of the module to other courses	Doctoral Training Program in the Learning Sciences PhD in the Learning Sciences
Elective Regulations	The module can be chosen on the basis of: selection of two modules from the Elective Compulsory modules WP3 to WP5.
Prerequisites	None
Point of time during the Study Period	Recommended Semester: 2 and 3
Duration	The module extends over 2 Semester.
Content	<p>In this module, an intensive examination of current research findings and methods is carried out in one of the four relevant areas (cognition, emotion, learning, development).</p> <p>The students work on developing knowledge from the field of cognitive, emotion, learning and developmental psychology and work on selected topics based on current research.</p> <p>Students will learn about the development and implementation of scientific issues in the field of cognitive, emotion, and learning psychology or cognitive or neuro-cognitive developmental psychology.</p>

	After an introduction to theoretical and methodological grounding documents which constitutes the basis for current research findings, one's own project is planned, conducted, analyzed and documented.
Learning Aims	<p>Students have the ability to actively examine current theories, research methods and application aspects in the area chosen for depression.</p> <p>Students will become familiar with explicit empirical studies, the current research situation and will gain an insight into the methods used and the most influential studies in this field of psychology.</p> <p>In addition, learners will gain some expertise in the planning and execution of scientific studies. There are thereby encouraged to develop presentation skills as well as learn how to critically analyze and reflect upon empirical research.</p>
Form of Module Examination	<p>Final Examination (60-120 Minutes) or</p> <p>Oral Presentation (30-45 Minutes) or</p> <p>Coursework (36.000 – max. 72.000 Characters) or</p> <p>Oral Presentation (15-30 Minutes) and Coursework (18.000 – max. 36.000 Characters)</p> <p>Practical considerations for exams (form and duration of module examination) are made available at the start of the semester.</p>
Type of Evaluation	The module is graded.
Requirements for the award of ECTS points	The ECTS points are awarded upon successful completion of module examinations (i.e. for compulsory modules as well as for Elective Compulsory modules).
Module Organizer	Prof. Dr. Reinhard Pekrun, Prof. Dr. Beate Sodian (The Module Organizer will be rotated throughout the semester).
Language	English
Other Information	None

Module: WP 4 Learning, Instruction, Training and Technology

Assignment to the Degree Program

Master studies in Psychology: Learning Sciences (Master of Science, M.Sc.)

Corresponding module part

Medium of teaching	Modules (compulsory)	Study semester	In-class time	Independent study time	ECTS
Seminar	WP 4.1 Special Issues in Learning, Instruction, Training and Technology	SoSe	45 h (3 SWS)	135 h	(6)
Seminar	WP 4.2 Assessment and Test Procedures in Learning, Instruction, Training and Technology	WiSe	45 h (3 SWS)	105 h	(5)
Seminar	WP 4.3 Research Seminar in Learning, Instruction, Training and Technology	WiSe	30 h (2 SWS)	0 h	(1)

The student will be awarded a total of 12 ECTS points for the module. In-class hours are comprised within the 8 semester weeks. Including dependent studying, a total of 360 hours of work are required.

Type of Module Elective Compulsory module with compulsory activities.

Applicability of the module to other courses Doctoral Training Program in the Learning Sciences
PhD in the Learning Sciences

Elective Regulations The module can be chosen on the following basis:
Two Elective Compulsory modules must be chosen from the choice of modules WP3 to WP5.

Prerequisites None

Point of time during the Study Period Recommended Semester: 2 and 3

Duration The module extends over 2 Semester.

Content In this module the focus is on the use of digital technologies to promote learning, training and instructional processes and on the adoption of digital technologies for learning and teaching processes.

The module has three priorities: discussing specific aspects of learning, training and instruction with digital technologies.

Furthermore, techniques for evaluation and empirical review of the effectiveness of technology-supported learning will be presented, applied and discussed.

Techniques such as, for example, knowledge tests, measurement of skills and competencies, thinking-out-loud and dialogue analysis will be covered.

In addition, current research in the field of learning, training and instruction are presented and discussed with digital technologies in various domains and contexts.

After an introduction to theoretical and methodological grounding documents for the basis of current research findings, one's a student's a student's own empirical study is to be planned, conducted, analyzed and documented.

Learning Aims

The students will gain knowledge about legends and theories on the use of digital technologies in learning and teaching processes.

In addition they will acquire the ability to evaluate training and instructional activities and evaluate their relation to current research. They will be able to critically reflect upon the methodological and theoretical aspects of recent research findings.

Students will analyze, develop and evaluate learning and training environments.

Furthermore, they will learn about adequate procedures for the evaluation and testing of learning processes and outcomes in technology-enhanced learning, training and instruction environments and be able to select, adapt, develop and apply them in order to answer specific research and evaluation questions.

In addition, students will develop the necessary skills for the planning and execution of scientific studies.

Form of Module Examination

Final Examination (60-120 Minutes) or

Oral Presentation (30-45 Minutes) or

Coursework (36.000 – max. 72.000 Characters) or

Oral Presentation (15-30 Minutes) and Coursework (18.000 – max. 36.000 Characters)

Practical considerations for exams (form and duration of module examination) are made available at the start of the semester.

Type of Evaluation

The module is graded.

Requirements for the award of ECTS points

The ECTS points are awarded upon successful completion of module examinations (i.e. for compulsory modules as well as for Elective Compulsory modules).

Module Organizer

Prof. Dr. Frank Fischer

Language English

Other Information None

Module: WP 5 Psychology of Excellence

Assignment to the Degree Program Master studies in Psychology: Learning Sciences (Master of Science, M.Sc.)

Corresponding module part

Medium of teaching	Modules (compulsory)	Study semester	In-class time	Independent study time	ECTS
Seminar	WP 5.1 Special Issues in Psychology of Excellence	SoSe	45 h (3 SWS)	135 h	(6)
Seminar	WP 5.2 Assessment and Test Procedures in Psychology of Excellence	WiSe	45 h (3 SWS)	105 h	(5)
Seminar	WP 5.3 Research Seminar in Psychology of Excellence	WiSe	30 h (2 SWS)	0 h	(1)

The student will be awarded a total of 12 ECTS points for the module. In-class hours are comprised within 8 semester weeks. Including independent study time, a total of 360 hours of work are required.

Type of Module Elective Compulsory module with compulsory activities.

Applicability of the module to other courses Doctoral Training Program in the Learning Sciences
PhD in the Learning Sciences

Elective Regulations The module can be chosen on the following basis:

Two Elective Compulsory modules must be chosen from the modules WP 3 to WP 5.

Prerequisites None

Point of time during the Study Period Recommended Semester: 2 and 3

Duration The module extends over 2 Semester.

Content The module provides in-depth knowledge of theories and research findings for predicting academic and non-academic performance, and which are primarily attributable to the field of educational psychology.

Students will study current publications and research selected questions related to the theme of excellence.

After an introduction to theoretical and methodological grounding documents for the basis of current research findings, one's a student's own empirical study will be planned, conducted, analyzed and documented.

Learning Aims	<p>Students should know the current state of research to identify highly gifted learners and other learners and have an overview of programs which support the learning of particularly gifted learners and students with learning difficulties or special educational needs. They should have a practical insight as to how programs are developed and carried out and how such potential can be optimally exploited.</p> <p>They also are expected to gain knowledge of historical and current approaches in the field of excellence research. Moreover they will have acquired skills in the planning and execution of scientific studies. Other skills in presenting, analyzing and discussing of research findings are also expected to be enhanced.</p>
Form of Module Examination	<p>Final Examination (60-120 Minutes) or</p> <p>Oral Presentation (30-45 Minutes) or</p> <p>Coursework (36.000 – max. 72.000 Characters) or</p> <p>Oral Presentation (15-30 Minutes) and Coursework (18.000 – max. 36.000 Characters)</p> <p>Practical considerations for exams (form and duration of module examination) are made available at the start of the semester.</p>
Type of Evaluation	The module is graded.
Requirements for the award of ECTS points	The ECTS points are awarded upon successful completion of module examinations (i.e. for compulsory modules as well as for Elective Compulsory modules).
Module Organizer	Prof. Dr. Anne Frenzel
Language	English
Other Information	None

Module: P 6 Internship module

Assignment to the Degree Program Master studies in Psychology: Learning Sciences (Master of Science, M.Sc.)

Corresponding module part

Medium of teaching	Modules (compulsory)	Study semester	In-class time	Independent study time	ECTS
Work experience	P 6.1 Internship	WiSe	-	360 h	(12)

The student will be awarded a total of 12 ECTS points for the module. This involves 0 in-class hours. A total of 360 hours of independent work is therefore required.

Type of Module Compulsory and Elective Compulsory modules

Applicability of the module to other courses None

Elective Regulations None

Prerequisites None

Point of time during the Study Period Recommended Semester: 3

Duration The module extends over 1 Semester.

Content Students must complete an internship of a total of 350 hours (otherwise estimated as a total of 10 weeks) working on pedagogical and psychological issues or on a research project in an institution, organisation or company.

The module also includes the acquisition of soft skills, which are of particular relevance to the Learning Sciences.

Learning Aims As part of the internship, students are expected to gain practical hands-on experience and develop key skills in pedagogy- and/or psychology-related areas.

They will thereby learn how to apply their theoretical knowledge to a practical field.

Form of Module Examination Internship Report (9.000 – max. 18.000 Characters)

Type of Evaluation The module is not graded.

Requirements for the award of ECTS points The ECTS points are awarded upon successful completion of module examinations (i.e. for compulsory modules as well as for Elective Compulsory modules).

Module Organizer Carolin Schwab (Program coordinator)

Language English

Other Information None

Module: WP 6 Learning in Specific Domains II

Assignment to the Degree Program Master studies in Psychology: Learning Sciences (Master of Science, M.Sc.)

Corresponding module part

Medium of teaching	Activities (Elective Compulsory)	Study semester	In-class time	Independent study time	ECTS
Class in small groups	WP 6.0.1 Learning in Medicine	WiSe	30 h (2 SWS)	60 h	(3)
Class in small groups	WP 6.0.2 Learning in Computer Sciences	WiSe	30 h (2 SWS)	60 h	(3)

The student will be awarded a total of 3 ECTS points for the module. All 3 ECTS points are acquired through the completion of Elective Compulsory activities. The in-class time will run over 2 semester weeks. A total of 90 hours of independent work is required.

Type of Module Elective Compulsory module with Elective Compulsory activities

Applicability of the module to other courses Doctoral Training Program in the Learning Sciences
PhD in the Learning Sciences

Elective Regulations The module may be chosen on the following basis:

one Elective Compulsory field is to be chosen between „Learning in Specific Domains“ and „Clinical Psychology“.

Out of the Elective Compulsory modules WP1, WP 2, WP 6 and WP 7:

1. the modules WP1 and WP6 must be completed for the chosen field of „Learning in Specific Domains“.
2. the modules WP2 and WP7 must be completed for the chosen field of „Clinical Psychology“.

It is stipulated that for the chosen course:

the student must choose between the Elective Compulsory teaching activities WP 6.0.1 and WP 6.0.2.

Prerequisites None

Point of time during the Study Period Recommended Semester: 3

Duration The module extends over 1 Semester.

Content The module addresses the question of how different learning processes depend on the content of specific learning domains. Students will cover the theoretical models of the subject-specific teaching-learning research and their implementation

in practice as well as on methods for the analysis of domain-specific learning processes.

The seminars raise the question of how empirical knowledge in the field of didactics can be acquired and implemented in practice in the context of secondary and tertiary education.

Learning Aims

Students will learn about the grounding models of subject-specific teaching-learning research, their implementation in practice and methods learned for the investigation of specialized learning. In addition, they will be expected to demonstrate an ability to work interdisciplinary environment.

They will thereby acquire the ability to implement theories of didactics and will be expected conduct their own investigation in the field of empirical subject-specific didactics.

Form of Module Examination

Final Examination (30-60 Minutes) or
 Coursework (18.000 – max. 36.000 Characters) or
 Oral Presentation (15-30 Minutes)

Practical considerations for exams (form and duration of module examination) are made available at the start of the semester.

Type of Evaluation

The module is not graded.

Requirements for the award of ECTS points

The ECTS points are awarded upon successful completion of module examinations (i.e. for compulsory modules as well as for Elective Compulsory modules).

Module Organizer

Carolin Schwab (Program coordinator)

Language

English

Other Information

None

Module: WP 7 Clinical Psychology II

Assignment to the Degree Program Master studies in Psychology: Learning Sciences (Master of Science, M.Sc.)

Corresponding module part

Medium of teaching	Modules (compulsory)	Study semester	In-class time	Independent study time	ECTS
Seminar	WP 7.1 Research Methods in Clinical Psychology	WiSe	30 h (2 SWS)	60 h	(3)

The student will be awarded a total of 3 ECTS points for the module. The in-class time will run over 2 semester weeks. A total of 90 hours of independent work is required.

Type of Module Elective Compulsory module with compulsory activities.

Applicability of the module to other courses None

Elective Regulations The module may be chosen on the following basis:

One of the Elective Compulsory fields „Learning in Specific Domains“ or „Clinical Psychology“ must be chosen.

Out of the Elective Compulsory modules WP1, WP 2, WP 6 and WP 7:

1. Modules WP 1 and WP 6 must be chosen for the completion of the Elective Compulsory field „Learning in Specific Domains“.
2. Modules WP 2 and WP 7 must be chosen for the completion of the Elective Compulsory field „Clinical Psychology“.

Prerequisites None

Point of time during the Study Period Recommended Semester: 3

Duration The module extends over 1 Semester.

Content Research approaches of clinical psychology will be considered for this module.

Learning Aims The students will be able to recognize and identify different research approaches and reflect upon them critically.

Form of Module Examination Final Examination (30-60 Minutes) or

Coursework (18.000 – max. 36.000 Characters) or

Oral Presentation (15-30 Minutes)

Practical considerations for exams (form and duration of module examination) are made available at the start of the semester.

Type of Evaluation	The module is not graded.
Requirements for the award of ECTS points	The ECTS points will be awarded upon successful completion of the module examination (or the associated compulsory and Elective Compulsory examination parts).
Module Organizer	Prof. Dr. Corinna Reck
Language	English
Other Information	None

Module: P 7 Final module

Assignment to the Degree Program Master studies in Psychology: Learning Sciences (Master of Science, M.Sc.)

Corresponding module part

Medium of teaching	Modules (compulsory)	Study semester	In-class time	Independent study time	ECTS
Class in small groups	P 7.1 Empirical Research Designs	SoSe	30 h (2 SWS)	60 h	(3)
Class in small groups	P 7.2 Master Colloquium	SoSe	30 h (2 SWS)	60 h	(3)
Masterarbeit	P 7.3 Master Thesis	SoSe	-	720 h	(24)

The student will be awarded a total of 30 ECTS points for the module. The in-class time will run over 4 semester weeks. A total of 900 hours of independent work is required.

Type of Module Compulsory and Elective Compulsory modules

Applicability of the module to other courses None

Elective Regulations None

Prerequisites Attendance and participation in P1

Point of time during the Study Period Recommended Semester: 4

Duration The module extends over 1 Semester.

Content The Master's thesis must be completed as an independent scientific piece of work. The work represents the latest scientific knowledge to a selected issue of educational psychology in the teaching-learning research domain, as well as a student's own empirical study on a self-developed research question.

Students will be expected to present and discuss the intermediate steps in a colloquium.

They will also be expected to plan their empirical research design in detail and will receive the support of their supervisor in composing a thesis of a high standard. Problems with the implementation of the work may, for this purpose, be expressed and addressed to the supervisor.

Learning Aims The students will be able to identify issues and other phenomena, apply theories and derive appropriate research designs for teaching and learning.

They are expected to independently develop a project with their own research question, taking into account the

present literature and putting together a critical written report, addressing the question.

They will be expected to demonstrate the ability to deal appropriately with methodological, structural and stylistic problems they may have faced in the completion of their master thesis.

Students will thereby acquire the ability to plan and structure their work and will further develop their critical thinking skills.

Form of Module Examination

Master thesis (24 weeks, 150.000 – max. 270.000 Characters)

Type of Evaluation

The module is graded.

Requirements for the award of ECTS points

The ECTS points are awarded upon successful completion of module examinations (i.e. for compulsory modules as well as for Elective Compulsory modules).

Module Organizer

Carolin Schwab (Program coordinator)

Language

English

Other Information

None