

M.Sc. Psychology – Cognitive Psychology and Cognitive Neuroscience

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Note:

This module catalogue represents the curriculum in the M.Sc. Psychology - Cognitive Psychology and Cognitive Neuroscience to the best of our knowledge. Because the English curriculum is offered by Friedrich Schiller University under German Law, you should note that the legally binding document is the module catalogue as published in German.

Module MPSYA01 Rese	earch Methods
Modulcode	MPSYA01
Module Title (German)	Forschungsmethoden
Module Title (Englisch)	Research Methods
Module Director	Prof. Dr. Tobias Koch
Prerequisites for Admission	
Recommended Prerequisites	Basic knowledge of R, inferential statistics, and regression analysis
Prerequisite for	
Type of Module (Mandatory, Compulsory Elective, or	M.Sc. Psychology - Work, Education/Development, Law, and Health (ABERG): Mandatory
Elective)	M.Sc. Psychology - Cognitive Psychology and Cognitive Neuroscience (CPCN): Mandatory
Frequency	annually (starting in the winter term)
Duration	2 semesters
Form (Lecture, Tutorial, Seminar, Practical Course)	2 lectures (à 2 SWS), 2 complementary practical courses (à 1 SWS)
ECTS Credits	15 ECTS
Workload	450 h
- Hours of Attendance	90 h
- Private Study (Including Exam Preparation)	360 h
Contents	This module teaches theoretical foundations and applications of select multivariate methods. Lecture 1 thoroughly deals with multivariate methods related to evaluation research. These include, among others, multiple regression analyses, logistic regression analyses, generalized covariance analyses, and methods for estimating causal effects. Lecture 2 thoroughly covers complex and multivariate methods related to measurement theory and measurement of change. Among others, these include confirmatory factor analyses, linear structural equation models, and hierarchical linear models. The multivariate methods taught in the lectures are applied to empirical data using advanced statistical software (e.g., R, MPlus). Students learn how to interpret and report the obtained results correctly.
Learning and Qualification Goals	Students are enabled to a) apply complex and multivariate evaluation methods in various research contexts such as the evaluation and quality assurance of interventions, b) independently plan, conduct, evaluate, and summarize

	studies, c) evaluate scientific findings in terms of content and methodology regarding their research approach and their explanatory power and to derive well-founded actions therefrom. In addition, students learn to apply the analytical procedures taught in the lectures to empirical data using state-of-the-art analytical software (e.g. R, Mplus). Students are enabled to evaluate their own data, to critically assess the results against the background of the statistical prerequisites, and to practically apply the findings.
	Students acquire in-depth knowledge of applying statistical methods to specific data sets; of critically evaluating the results against the background of statistical prerequisites; and of integrating results into their own field of practice.
Prerequisites for Admission to the Module Exam	
Prerequisites for Granting of Credit Points	2 exams, each of which relate to the lectures and the complementary practical courses. Both exams equally contribute to the overall grade.
	Passing at least 50% of the tasks in each practical course (pass/fail).
	Each part of the examinations must be passed.
Language	The contents of the module will be made available for students without German language skills in English in form of videos.

Module MPSYCP02 Psy	ychological Diagnostics
Modulcode	MPSYCP02
Module Title (German)	Psychologische Diagnostik
Module Title (Englisch)	Psychological Diagnostics
Module Director	Prof. Dr. Franz Neyer
Prerequisites for Admission	
Recommended Prerequisites	
Prerequisite for	
Type of Module (Mandatory, Compulsory Elective, or	M.Sc. Psychology - Work, Education/Development, Law, and Health (ABERG): Mandatory
Elective)	M.Sc. Psychology - Cognitive Psychology and Cognitive Neuroscience (CPCN): Mandatory
Frequency	Every 2nd semester (from winter term)
Duration	1-2 semester
Form (Lecture, Tutorial, Seminar, Practical Course)	1 lecture, 1 seminar
ECTS Credits	10 ECTS
Workload	300 h
Hours of Attendance	60 h
Private Study (Including Exam Preparation)	240 h
Contents	The following topics are covered in the diagnostic lecture:
	 Diagnostic models, methods, measurement theories Diagnostic methods in psychological fields of application (neuropsychology, clinical psychology, and psychotherapy) Examples of application: (a) Processing and evaluating expert questions (i.e. in regard to work and occupational incapacity or the degree of disability or impairment); (b) Assessment of questions relating to family matters or criminal law, such as credibility diagnostics, relapse prognosis, custody decisions; (c) relationship diagnostics in the fields of psychotherapy, family (legal) psychology; (d) cross-cultural diagnostics (e.g., mental disorders); (e) diagnostics of cognitive impairments (e.g. attention disorders, dementia, dyslexia); (e) diagnostics of cognitive impairments (e.g., attention deficit disorder, dementia, dyslexia), etc.

The content of the module's seminar on expert reports (Department of General Psychology 1) are: Methods of setting goals, structuring, writing, and presenting psychological reports related to CPCN. Data collection, analysis, and interpretation in the diagnostic process. Compilation and presentation of an expert report based on an individual case. For students without knowledge of German, contents of CPCN are provided in English in a suitable form. Learning and Qualification Students can develop, apply, and evaluate psycho-diagnostic procedures in the field of CPCN according to current test-Goals theoretical models. Students are scientifically and methodologically enabled to recognize limitations in their own diagnostic competence and to take measures to strengthen their diagnostic judgements. Students acquire the ability to write expert reports on practical questions in the field of CPCN based on current scientific assessments; to decide which diagnostic procedures to apply based on scientific criteria; to perform these procedures in individual cases; and to evaluate and interpret the results. Prerequisites for Admission to the Module Exam Prerequisites for Granting of 1 written exam (50%, written) **Credit Points** 1 expert report (50%, written) Both exams must be passed.

Module MPSYCP03 Sp	ecialization Basic Science
Modulcode	MPSYCP03
Module Title (German)	Grundlagenvertiefung CPCN (Vertiefung I)
Module Title (Englisch)	Specialization Basic Science
Module Director	Prof. Dr. Gyula Kovács
Prerequisites for Admission	
Recommended Prerequisites	
Prerequisite for	
Type of Module (Mandatory, Compulsory Elective, or Elective)	M.Sc. Psychology - Cognitive Psychology and Cognitive Neuroscience (CPCN): Mandatory
Frequency	Every semester
Duration	1-2 semester
Form (Lecture, Tutorial, Seminar, Practical Course)	3 courses (seminar or lecture)
ECTS Credits	15 ECTS
Workload	450 h
Hours of Attendance	90 h
Private Study (Including Exam Preparation)	360 h
Contents	This module provides thorough knowledge of the basics of cognitive and social (neuro)science and the context of human information processing. The courses deal, among others, with the neural and biological foundations of cognition and emotions, person perception, and social interactions. Moreover, developmental psychological characteristics and impairments of these abilities (e.g., CNS disorders or sensory impairments) are covered.
	Further topics are the association between cognition, affect, and action, human-machine interaction, linguistic communication, as well as cooperation and conflict in social groups. The module offers opportunities to address relevant topics of developmental psychology and the development of intervention techniques.
	Various courses offer an in-depth study of methods and techniques needed for scientific examinations, for the analysis and evaluation of cognitive processes in laboratory experiments, and for the advanced study and application of neuroscientific measurement methods (EEG, fMRI, MEG, fNIRS, TMS). In addition, competencies in current standards of

	good scientific practice relating to the replicability and transparency of psychological and neuroscientific research are acquired.
Learning and Qualification Goals	Students can thoroughly discuss results and theoretical models from basic psychological research and relate them to practical inquiries. They can analyze challenges arising from research practice and design suitable strategies for action. At the same time, they acquire the necessary competencies to develop research strategies allowing them to adequately examine theoretical as well as practical questions.
Prerequisites for Admission to the Module Exam	
Prerequisites for Granting of Credit Points	1 written exam, oral exam, or written paper in one course. Successful participation (to be documented e.g. by presentations or smaller written or practical tasks) in two further courses of the module.
Additional Information on the Module	The following courses (S = seminar, VL = lecture) are expected to be offered within the framework of the basic course, from which three can be chosen freely. Most of the courses will be offered annually:
	 S: Human-Machine Interaction, Ergonomics S: Empirical Developmental Psychology 1 S: Empirical Developmental Psychology 2 VL: Forensic Psychology S: Conflict and Cooperation in Social Groups VL: Developmental Psychopathology S: Cognition, Affect, Action: Basics S: Implicit Diagnostics VL: Basic Neuroscience VL: Methods of Cognitive Neuroscience S: Higher Cognitive Functions S/VL: Scientific Practice S: Language and Communication S: Methods of Cognitive and Affective Neuroscience

Module MPSYCP04 Sp	ecialization Applied Science
Modulcode	MPSYCP04
Module Title (German)	Anwendungsvertiefung CPCN (Vertiefung II)
Module Title (Englisch)	Specialization Applied Science
Module Director	Prof. Dr. Stefan R. Schweinberger
Prerequisites for Admission	
Recommended Prerequisites	
Prerequisite for	
Type of Module (Mandatory, Compulsory Elective, or Elective)	M.Sc. Psychology - Cognitive Psychology and Cognitive Neuroscience (CPCN): Mandatory
Frequency	every semester
Duration	1-2 semester
Form (Lecture, Tutorial,	3 courses (seminar or lecture)
Seminar, Practical Course)	Courses that were taken as part of another module cannot be taken again.
ECTS Credits	15 ECTS
Workload	450 h
Hours of Attendance	90 h
Private Study (Including Exam Preparation)	360 h
Contents	In the module, theoretical models, the state of scientific knowledge, and contributions to psychological practice are being taught and critically reflected upon. The module builds on the module Specialization Basic Science. In this way, students are systematically introduced to possible future professional fields and acquire relevant knowledge and competencies. This includes the ability to analyze characteristic problems within the field and to design approaches to address them.
	The courses cover areas ranging from the integration of cognition, affect, and action in everyday life to applied aspects of perception, memory, and the formation of internal beliefs, which are also relevant for forensic work, such as the evaluation of witness testimonies. In this regard, the individual and situational context conditions for so-called "false memories" or "false beliefs" will be addressed, among others. Further courses deepen applied aspects on issues of health and work.

	In addition, the module addresses the transfer of knowledge, analytical methods/ techniques, and the evaluation of cognitive processes from laboratory experiments to everyday life.
Learning and Qualification Goals	Students can analyze everyday problems in a professional field, apply findings and approaches of psychological research and develop suitable solutions. At the same time, they gain insights into professional contexts such as neuropsychology and neurorehabilitation, forensics, training, counseling, and intervention of developmental disorders (e.g. autism) or counseling related to areas of social interactions. In addition, the methods of the courses strengthen relevant competencies relating to social interaction and teamwork.
Prerequisites for Admission to the Module Exam	- -
Prerequisites for Granting of Credit Points	1 written or 1 oral exam, or 1 written paper in one course (100%).
	Successful participation (to be documented e.g. by presentations or small written or practical tasks) in two further courses of the module.
Additional Information on the Module	The following courses (S = seminar, VL = lecture) are expected to be offered in the context of the module 'Specialization Applied Science', from which three are to be chosen freely. Most courses will be offered annually:
	 S: Forensic Psychology S: Applied Memory Research: Forensic Psychology & Eyewitness Testimony S/VL: Neuropsychological assessment S: Autism S: Applied Developmental Pathology 1 S: Applied Developmental Pathology 2 S: Social Groups S: Cognition, Affect, Action: Applications S: Sensory Determinants of Interaction S: Human Interaction: One seminar from a, b, or c is offered annually: a) Person Perception & Human Interaction b) Human Interaction in Social Media: Understanding and Countering Spread of Misinformation c) Human Interaction in Individuals with Hearing Loss

Modulcode	MPSYCP05
Module Title (German)	Projektarbeit
Module Title (Englisch)	Project Work
Module Director	Prof. Dr. Klaus Rothermund/Prof. Dr. Stefan Schweinberger
Prerequisites for Admission	
Recommended Prerequisites	
Prerequisite for	
Type of Module (Mandatory, Compulsory Elective, or Elective)	M.Sc. Psychology - Cognitive Psychology and Cognitive Neuroscience (CPCN): Mandatory
Frequency	every 2nd semester (from summer semester)
Duration	2 semesters
Form (Lecture, Tutorial, Seminar, Practical Course)	1 seminar
ECTS Credits	10 ECTS
Workload	300 h
Hours of Attendance	60 h
Private Study (Including Exam Preparation)	240 h
Contents	In the course of the project work, students plan, implement, and document a specific research or practice project. This includes extensive literature research, the development of a research or intervention design, the practical implementation of the project, data analysis or evaluation, and preparation of the project report. The project work takes place in small groups.
Learning and Qualification Goals	Students can identify relevant research questions and practical challenges and develop meaningful answers and solutions by relating to psychological findings. In doing so, they strengthen their methodological competencies and improve their social skills (in relation to team processes).
Prerequisites for Admission to the Module Exam	
Prerequisites for Granting of Credit Points	1 project report (100%, in writing)

Module MPSYA06 Sup	plementary Studies
Modulcode	MPSYA06
Module Title (German)	Ergänzungsfach allgemein
Module Title (Englisch)	Supplementary Studies
Module Director	Prof. Dr. Klaus Rothermund
Prerequisites for Admission	
Recommended Prerequisites	
Prerequisite for	
Type of Module (Mandatory, Compulsory Elective, or	M.Sc. Psychology - Work, Education/Development, Law, and Health (ABERG): Compulsory Elective
Elective)	M.Sc. Psychology - Cognitive Psychology and Cognitive Neuroscience (CPCN): Compulsory Elective
Frequency	every semester
Duration	2 semesters
Form (Lecture, Tutorial, Seminar, Practical Course)	Lectures and seminars
ECTS Credits	10 ECTS
Workload	300 h
Hours of Attendance	100 h
Private Study (Including Exam Preparation)	200 h
Contents	Students complete courses from another discipline or from a psychological subdiscipline outside their own major. They may choose single courses from different modules. The choice has to be approved by the Examinations Office (Prüfungsamt).
Learning and Qualification Goals	Students broaden their scientific horizons and acquired knowledge and insights into relevant methods of another field. They improve their ability to take interdisciplinary perspectives.
Prerequisites for Admission to the Module Exam	
Prerequisites for Granting of Credit Points	Depending on the chosen supplementary field. Will be announced by the responsible lecturer.

Module MPSYA06a Su	pplementary Clinical Studies
Modulcode	MPSYA06a
Module Title (German)	Klinisch-Psychologisches Ergänzungsfach
Module Title (Englisch)	Supplementary Clinical Studies
Module Director	Director of Psychological Institute
Prerequisites for Admission	
Recommended Prerequisites	
Prerequisite for	
Type of Module (Mandatory, Compulsory Elective, or Elective)	M.Sc. Psychology - Work, Education/Development, Law, and Health (ABERG): Compulsory Elective M.Sc. Psychology - Cognitive Psychology and Cognitive Neuroscience (CPCN): Compulsory Elective
Frequency	every semester
Duration	1- 2 semester
Form (Lecture, Tutorial, Seminar, Practical Course)	Lectures and seminars At least 10 LP must be achieved from a combination of the courses listed below. The composition of the courses can be chosen freely. Each course can be taken only once. Depending on the combination, the module is composed of, for example, 3 lectures (depending on LP) or a combination of lectures with a seminar.
ECTS Credits	10 ECTS
Workload	300 h
Hours of Attendance	90 h
Private Study (Including Exam Preparation)	210 h
Contents	 Three courses must be chosen from the following 6 options: Einführung in die Psychoanalyse (Institut für Psychosoziale Medizin und Psychotherapie - Prof. Dr. Strauß) Wissenschaftliches Vertiefungsseminar (Prof. Dr. Croy) Angewandte Psychotherapie (Prof. Dr. Croy) Spezielle Störungs- und Verfahrenslehre Erwachsene und ältere Menschen (Prof. Dr. Wilz) Psychodynamische Konzepte und Verfahren (Prof. Dr. Croy) (Teil der Speziellen Verfahrenslehre)

	 Spezielle Störungs- und Verfahrenslehre Kinder und Jugendliche (Prof. Dr. Asbrand) (Teil der Speziellen Verfahrenslehre)
Learning and Qualification Goals	Students gain an in-depth overview of concepts and treatment approaches of psychoanalytic, cognitive-behavioral, and depth psychological methods, as well as specific setting and treatment indications for treatments across the lifespan.
Prerequisites for Admission to the Module Exam	For all participants: Regular attendance and active participation in the respective courses.
Prerequisites for Granting of Credit Points	Written exam, oral exam, or other proof of performance (to be determined by the lecturer) on the material of the selected courses. The exam is divided into parts. One part is graded and determines the module grade, the other parts are assessed as "pass/fail" (for the procedure, see "Additional information on the module"). The course in which the graded exam is taken must comprise at least 3 LP. Each partial exam must be passed to complete the module. Re-examinations are either conducted orally or in writing.

Module MA.IWK.P2A Cultural Studies and Cultural Science		
Modulcode	MA.IWK.P2A	
Module Title (German)	Kulturstudien und Kulturwissenschaft	
Module Title (Englisch)	Cultural Studies and Cultural Science	
Module Director	N.N.	
Prerequisites for Admission		
Recommended Prerequisites		
Prerequisite for	Successfully completed B.A. with intercultural specialization (at least 30 ECTS) or supplementary subject in the field of intercultural communication studies (final grade: 2,0 or better). To choose a specialization in one culture you need to fulfill the following language requirements according to the Common European Reference Frame ("Europäischer Referenzrahmen"): English Specialization: Level C1, Spanish or French specialization: Level B2 in the beginning, C1 for graduation	
Type of Module (Mandatory, Compulsory Elective, or Elective)	830 M.A. IPK: Pflichtmodul 503 M.A. Politische Kommunikation: Wahlpflichtmodul M.Sc. Psychology - Work, Education/Development, Law, and Health (ABERG): Compulsory Elective M.Sc. Psychology - Cognitive Psychology and Cognitive Neuroscience (CPCN): Compulsory Elective	
Frequency	every semester	
Duration	2 semesters	
Form (Lecture, Tutorial, Seminar, Practical Course)	1 lecture, 1 seminar	
ECTS Credits	10 ECTS	
Workload	300 h	
Hours of Attendance	60 h	
Private Study (Including Exam Preparation)	240 h	
Contents	 Cultural dependency of human thinking and action. Communication and group relationships from a comparative intercultural perspective. Business oriented cultural history of a target culture. 	

Learning and Qualification Goals	Participants of the module
	 know the extent and limits of cultural influence on the psyche. have a conceptual inventory for describing cultural spaces. can create methodologically appropriate designs for examining comparative cultural issues. know important culturally-related differences in the areas of problem solving and decision-making, intraand intergroup behavior, socialization, leadership and communication. have profound knowledge of explaining management styles of a selected target culture in terms of cultural history. can apply cultural-historical knowledge for the purpose of cultural-scientific analysis of business-oriented networks.
Prerequisites for Admission to the Module Exam	Active participation in the courses
Prerequisites for Granting of Credit Points	1 written exam (V): "Kulturvergleichende Psychologie" 1 certificate of participation (S): "Zielkultur" (field of specialization)

Modulcode	MPSYA07
Module Title (German)	Berufsorientierendes Praktikum
Module Title (Englisch)	Internship
Module Director	Chairman of the board of examiners (Prüfungsausschussvorsitzender)
Prerequisites for Admission	
Recommended Prerequisites	
Prerequisite for	
Type of Module (Mandatory, Compulsory Elective, or Elective)	M.Sc. Psychology - Work, Education/Development, Law, and Health (ABERG): Mandatory
	M.Sc. Psychology - Cognitive Psychology and Cognitive Neuroscience (CPCN): Mandatory
Frequency	every semester
Duration	12 weeks
	The internships lasts a total of 12 weeks and can be divided into two parts, each lasting a minimum of 4 weeks (these estimations refer to full-time employment; in the case of part-time employment, the duration increase in accordance to the respective working hours).
Form (Lecture, Tutorial, Seminar, Practical Course)	Internship / Work Placement
ECTS Credits	15 ECTS
Workload	450 h
Hours of Attendance	420 h
Private Study (Including Exam Preparation)	30 h
Contents	The internship allows for insights into a psychologist's career The internship should be chosen according to the student's specialization. It will be completed in a related institution or organization/company. The students gain practical experienc through the application of their theoretical knowledge.
Learning and Qualification Goals	During their internship, the students learn to apply theoretical and practical aspects of their studies to new tasks. Furthermore, they might expand their professional network which might provide a basis for their professional careers.

Prerequisites for Granting of Credit Points	Written confirmation by the chosen institution/company including the duration and description of the internship. The internee writes a summarizing report about the contents, specific duties and the insight won during the internship (portfolio, not graded).
Additional Information	The module director provides a list of suitable institutions for internships. Other institutions may be granted as internship sites if the student submits a description of the expected work activities and supervision modalities prior to the start of the internship. The module director decides on the suitability of the institution as an internship site.
	The internship should be completed at an institution that employs a full-time psychologist with a degree in psychology (Diplom, Master of Science) or a person with a comparable degree who will provide guidance and supervision for the intern. In special cases, psychological supervision can also be provided by a university lecturer (Hochschullehrer:in) of the Institute of Psychology if supervision cannot be ensured as part of the internship.
	Internships that do not introduce students to a psychological profession or research field are not eligible for credit.

Modulcode	MPSYA08
	Masterarbeit
Module Title (German)	
Module Title (Englisch)	Master Thesis
Module Director	Director of Institute for Psychology
Prerequisites for Admission	
Recommended Prerequisites	
Prerequisite for	MSc. Psychology in Work, Education/Development, Law, and Health (ABERG)
	M.Sc. Psychology - Cognitive Psychology and Cognitive Neuroscience (CPCN)
Type of Module (Mandatory, Compulsory Elective, or Elective)	Mandatory
Frequency	every semester
Duration	6 months
Form (Lecture, Tutorial, Seminar, Practical Course)	Master Thesis
ECTS Credits	30 ECTS
Workload	900 h
Hours of Attendance	
Private Study (Including Exam Preparation)	900 h
Contents	By evaluating literature and applying empirical methods, students work on a psychological research question within a given timeframe.
Learning and Qualification Goals	The students show that they are able to work on a psychological thesis according to psychological standards. Furthermore, they illustrate their ability to use psychological methods and to properly present a scientific matter in writing.
Prerequisites for Admission to the Module Exam	Approval of the chosen topic
Prerequisites for Granting of Credit Points	Handing in the thesis adhering to a given deadline.