Module Catalog
Master of Science Cognitive Science
Planned from: Winter Semester 2024/2025

BM1: Advanced Natural Language Processing	Number of credit points (CPs): 9
Module type (mandatory or elective module):	Elective module
Content and objectives of the module:	Qualification objectives: - The students have broad and advanced knowledge of the methods and applications in computational linguistics. On this basis, they are able to understand and critically classify current computational linguistics literature. They are practiced in gathering and assessing literature independently. - The students are able to select and apply suitable methods for specific, given computational linguistic problems. - The students are able to implement computational linguistic algorithms in a suitable programming language. They are familiar with the commonly available grammars and data sets and are able to use them for their problems and adjust them if necessary. Content: The course covers the most important applications of computational linguistics as well as the modeling approaches and associated algorithms used in these applications. It focuses on symbolic and statistical methods for parsing, generation, part-of-speech tagging, semantic processing, discourse processing, and machine translation. The lecture will be accompanied by assignments and intensive self-studies (textbook, research literature).
Module (sub-)examination(s) (number, form, scope):	Written exam, 120 minutes Final project, project report about 10 pages
Independent study time (in hours (h)):	210

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Lecture (lecture)	2	-	-	-
Recitation course (recitation course)	2	-	Successful completion of weekly assignments	-

Frequency at which the module is offered:	Annually (in the winter semester)
Prerequisites for taking the module:	None
Teaching unit(s):	Linguistics

CSE-MA-004: Experimental Psychological Training	Number of credit points (CPs): 6
Module type (mandatory or elective module):	Elective module

Content and objectives of the module:	Content: - Designs for experimental and non-experimental studies - Problems in constructing study designs and conducting studies (e.g. confounding, randomization, single-factorial and multi-factorial experimental designs) - Formulating research questions and hypotheses - Guided execution of experiments and studies - Presentation and reporting of results in the form of a poster Qualification objectives: - Disseminating basic knowledge of empirical-experimental methods as a means of acquiring scientific knowledge in psychology; acquiring knowledge and experience in planning, implementation, and evaluation of empirical-experimental studies and the presentation of results
Module (sub-)examination(s) (number, form, scope):	Please find course-accompanying module (sub-)examinations below.
Independent study time (in hours (h)):	120

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Lab Course in Experimental Psychology (practical component)	4	-	-	Oral presentation of a written poster (15 minutes) (not graded)

Frequency at which the module is offered:	Winter semester
Prerequisites for taking the module:	Determined by the examining board as part of the admission to the degree program
Teaching unit(s):	Psychology

CSE-MA-005: Cognitive Science	Number of credit points (CPs): 15
Module type (mandatory or elective module):	Mandatory module

Content and objectives of the module:	Content: The lecture provides a comprehensive overview of the interdisciplinary field of cognitive sciences by examining selected topics from different perspectives (e.g. sensory and motor components of knowledge representation). It also focusses on teaching and discussing current research questions. In the accompanying seminar, the students work on central concepts of the lecture based on the original literature. At the same time, the seminar conveys the integration of the specific sub-areas (e.g. psychophysics, motor skills, cognitive psychology) in the cognitive sciences to students from different bachelor's degree programs in an interdisciplinary discourse and offers students opportunities to practice scientific communication in writing and through presentations. The completion of "test subject hours" (i.e. participation in experiments) contributes to conveying the experimental implementation of research questions. Qualification objectives: The students have advanced knowledge of cognitive science concepts. On this basis, they are able to independently compile and critically assess the scientific literature on current research questions in cognitive science and present the results. Students are able to deduce predictions for specific problems from the theories of cognitive sciences. They can develop experimental test arrangements for theoretically derived hypotheses. They can communicate all of the above information effectively in writing and verbally.
Module (sub-)examination(s) (number, form, scope):	Please find course-accompanying module (sub-)examinations below.
Independent study time (in hours (h)):	375

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Participation in experiments (project)	-	10 test subject hours (= 1 hr/wk per semester)	-	-
Seminar (seminar)	2	-	-	Presentation (30 minutes)
Lecture (lecture)	2	-	-	Written exam (90 minutes)

Frequency at which the module is offered:	Winter semester
Prerequisites for taking the module:	None
Teaching unit(s):	Psychology

CSE-MA-006: Mathematical Modelling in Cognitive Science	Number of credit points (CPs): 6
Module type (mandatory or elective module):	Mandatory module

Content and objectives of the module:	Content: The module deals with the most important mathematical approaches to modeling cognitive processes and systems focusing on stochastic processes (e.g. random walk models) and dynamic systems (e.g. systems of ordinary differential equations). The practical part discusses the implementation of the models on the computer and the related questions of simulation and statistical inference. Qualification objectives: The students are able to independently work on mathematical models of cognitive processes and systems based on the current literature. They are able to implement the models, use them for simulation and analyze them. The students can select methods of statistical inference for given mathematical models, adapt the models to experimental data, derive predictions and carry out quantitative model comparisons.
Module (sub-)examination(s) (number, form, scope):	Please find course-accompanying module (sub-)examinations below.
Independent study time (in hours (h)):	150

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Mathematical Modeling in Cognitive Science (lecture or seminar)	2	-	-	Written exam (90 minutes)

Frequency at which the module is offered:	Summer semester
Prerequisites for taking the module:	None
Teaching unit(s):	Psychology

CSE-MA-007: Cognitive Neuroscience	Number of credit points (CPs): 9
Module type (mandatory or elective module):	Mandatory module
Content and objectives of the module:	Content: The lecture provides an overview of the interdisciplinary field of cognitive neurosciences by examining selected topics from different perspectives (e.g. understanding and explaining the advantages and disadvantages of different neuroscientific methods). Another key aspect is the illustration and discussion of current research questions. The accompanying seminar deals with one topic in greater depth. Qualification objectives: The students have a solid understanding of neuroscientific and experimental methods in cognitive neuroscience. They are able to use the literature in cognitive neuroscience to work on current research problems and critically analyze published research results. Students are able to select the appropriate neuroscientific methods for testing theoretically deduced hypotheses.
Module (sub-)examination(s) (number, form, scope):	Written exam, 90 minutes
Independent study time (in hours (h)):	210

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Lecture (lecture)	2	Essay (about 5 pages), research proposal (about 5 pages)	-	-
Seminar (seminar)	2	Presentation	-	-
Frequency at which the module is offered:		Summer semester		
Prerequisites for taking the module:		None		
Teaching unit(s):		Psychology		

CSE-MA-008: Advanced Methods: Experiment Programming	Number of credit points (CPs): 6
Module type (mandatory or elective module):	Elective module
Content and objectives of the module:	Content: Planning and constructing a complex experimental test control; implementation by using suitable programming languages; structuring and evaluation of experimental designs and identification of advantages and disadvantages. Qualification objectives: The students expand their knowledge of experimental psychological and psychophysical methods, especially in connection with the computer-aided implementation of experimental designs using programming languages such as Matlab/Psychophysics Toolbox or Python/Psychopy. They have mastered time-controlled stimulus presentation, reaction measurement and the basics of presenting animated stimuli. On this basis, the students can independently plan more complex experiments and transfer them in an experiment control system. The students extend their knowledge of a programming language and software project management. They have mastered methods of reaction time and error measurement as well as classical and adaptive psychophysical methods.
Module (sub-)examination(s) (number, form, scope):	Please find course-accompanying module (sub-)examinations below.
Independent study time (in hours (h)):	150

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Seminar or recitation course (seminar or recitation course)	2	-	-	Submitting a working programming project
Frequency at which the module is offered:		Summer semester		
Prerequisites for taking the module:		None		
Teaching unit(s):		Psychology		

CSE-MA-009: Cognitive Development	Number of credit points (CPs): 6
Module type (mandatory or elective module):	Elective module
Content and objectives of the module:	Content: Seminars on developmental psychology and on knowledge and concept acquisition as well as related topics referring to cognitive development across the lifespan. Qualification objectives: The students have advanced knowledge of current research questions on the development and neurocognitive foundations of cognition. This especially refers to a process-oriented understanding of age-related changes in how individuals behave and experience as well as the influence of learning processes and previous experiences on information processing. Students are able to relate relevant theories to each other and critically assess them. They are able to identify and solve practice-related problems.
Module (sub-)examination(s) (number, form, scope):	Presentation with written elaboration, about 60 minutes, about 5,000 words
Independent study time (in hours (h)):	150

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Seminar (seminar)	2	-	-	-

Frequency at which the module is offered:	Winter semester
Prerequisites for taking the module:	None
Teaching unit(s):	Psychology

CSE-MA-016: Topics in Cognitive Neuroscience	Number of credit points (CPs): 6
Module type (mandatory or elective module):	Elective module
Content and objectives of the module:	Content: The seminars offer an overview of specific topics within the interdisciplinary field of cognitive neuroscience (e.g. neurocognition of language, meaning processing, attention, etc.) from different perspectives. One focus is on the illustration and discussion of current research questions. Qualification objectives: The students acquire an in-depth knowledge of specific topics of cognitive neurosciences. They are able to work on current issues based on the literature about these topics and present, critically assess, and discuss the published research results.
Module (sub-)examination(s) (number, form, scope):	Please find course-accompanying module (sub-)examinations below.
Independent study time (in hours (h)):	150

Courses (teaching formats)	Contact time (in hrs/wk per	Secondary examinations (number, form, scope)	Course-accompanying

	semester)	For completing the module	For admission to module exam	module (sub-) examinations (number, form, scope)
Seminar (seminar)	2	Presentation (about 45 minutes)	-	Essay (about 2,000 words)

Frequency at which the module is offered:	Summer semester
Prerequisites for taking the module:	None
Teaching unit(s):	Psychology

CSE-MA-017: Individual Research Module	Number of credit points (CPs): 12
Module type (mandatory or elective module):	Mandatory module
Content and objectives of the module:	Content: Students are involved in ongoing research projects to participate in the planning, execution, and evaluation of a cognitive sciences study (including statistical methods and/or mathematical models). They learn to structure problems, organize their work time, and work in a team. The substantial content is determined in consultation with the chosen lab and the scientific supervisor. Qualification objectives: Under supervision, the students are able to solve sub-problems of a clearly defined scientific research problem as part of an experimental and/or theoretical investigation. The students are able to build on partial results from previous investigations and present their own findings to the team in a suitable form.
Module (sub-)examination(s) (number, form, scope):	Scientific report, about 5,000 words
Independent study time (in hours (h)):	360

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	

Frequency at which the module is offered:	Winter and summer semester
Prerequisites for taking the module:	None
Teaching unit(s):	Psychology

CSE-MA-023: Current Topics in Cognition	Number of credit points (CPs): 6
Module type (mandatory or elective module):	Elective module

Content and objectives of the module:	Content: Seminars on cognitive psychology and related topics, including computational and sensorimotor components Qualification objectives: The students have advanced knowledge of current issues in cognitive psychology and their interdisciplinary connections. They are able to connect and critically analyze relevant theories, identify, and solve practice-related problems, and effectively communicate content and context verbally.			
Module (sub-)examination(s) (number, form, scope):	Oral exam, 30 minutes			
Independent study time (in hours (h)):	150			
Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Seminar (seminar)	2	-	-	-
Frequency at which the module is offered:	Summer semester			
Prerequisites for taking the module:	None			
Teaching unit(s):	Psychology			

CSE-MA-024: Advanced Topics in Cognition	Number of credit points (CPs): 9			
Module type (mandatory or elective module):	Elective module			
Content and objectives of the module:	Content: Seminars on specialized fields of cognitive psychology like social cognition or numeric cognition, and on related topics of cognitive and linguistic development, including computational and sensorimotor components Qualification objectives: The students have advanced knowledge of current research problems in specialized fields of cognitive psychology and their interdisciplinary connections. They are able to connect and critically analyze relevant and current theories from various fields. They can identify and solve practice-related problems using computational methods, amongst others.			
Module (sub-)examination(s) (number, form, scope):	One exam of the following formats: Oral exam, 30 minutes Presentation with written elaboration, 60 minutes, 20 pages			
Independent study time (in hours (h)):	210			
Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Seminar (seminar)	2	-	-	-
Seminar (seminar)	2	-	-	-
Frequency at which the module is offered:	Summer and winter semester			

Prerequisites for taking the module:	None
Teaching unit(s):	Psychology Linguistics

CSE-MA-025: Cognitive Modelling				Number of credit points (CPs): 6
Module type (mandatory or elective module):	Elective module			
Content and objectives of the module:	Content: This module compares and evaluates the advantages and disadvantages of selected mathematical simulations of cognitive and neuroscientific effects. Specific mathematical algorithms are used and discussed. Through the discussion and active mathematical evaluation of various scenarios, students gain a critical understanding of the strengths and weaknesses of different simulation algorithms, quality criteria, evaluation parameters, and of statistical inference with such methods. Qualification objectives: The students are able to proficiently model mental processes and neuronal systems from various cognitive science fields (such as perception, language, memory, and behavior) using mathematical models. They can use the implemented models to recreate cognitive signatures, as well as to generate and test new predictions. Additionally, they are able to select appropriate statistical and computational (simulation) methods for their evaluation.			
Module (sub-)examination(s) (number, form, scope):	Please find course-accompanying module (sub-)examinations below.			
Independent study time (in hours (h)):	150			
Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Seminar (seminar)	2	-	-	Written exam (90 minutes)
Frequency at which the module is offered:	Summer semester			
Prerequisites for taking the module:	None			
Teaching unit(s):	Psychology			

CSE-MA-026: Programming of Experiments		Number of credit points (CPs): 6
Module type (mandatory or elective module):	Elective module	

Content and objectives of the module:	Content: - Planning and constructing a computer-based test control system and data collection - Implementation using suitable programming languages - Structuring and evaluating experimental designs - Analyzing the strengths and weaknesses of the experimental design and implementation Qualification objectives: The students gain broad and solid knowledge of experimental methods in cognitive science, particularly in the computer-based implementation of experimental designs using common programming languages that are used in cognitive science research (e.g. Python, MATLAB). On this basis, students are able to independently translate experimental designs into experimental controls and data collection. They also acquire basic knowledge of a suitable programming language.
Module (sub-)examination(s) (number, form, scope):	Submitting a working programming project, about 1,000 lines of code, not graded
Independent study time (in hours (h)):	180

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Lab course (practical component)	-	-	-	-

Frequency at which the module is offered:	Winter semester
Prerequisites for taking the module:	Determined by the examining board as part of the admission to the degree program
Teaching unit(s):	Psychology

CSE-MA-027: Bayesian Statistics	Number of credit points (CPs): 12
Module type (mandatory or elective module):	Elective module
Content and objectives of the module:	Content: Application of Bayes' rule for statistical inference. Knowledge of the general linear model and hierarchical models. Cognitive modelling using Bayes' theorem. Relevant knowledge is imparted through guided evaluation of example data sets and discussion of case studies, including consultation of current literature. Qualification objectives: The students are able to independently and adequately conduct Bayesian statistical analysis of experimental data. They have a solid understanding of the foundations of Bayesian statistical inference.
Module (sub-)examination(s) (number, form, scope):	Please find course-accompanying module (sub-)examinations below.
Independent study time (in hours (h)):	300

Courses (teaching formats)	Contact time	Secondary examinations (number, form, scope)	Course-accompanying

	(in hrs/wk per semester)	For completing the module	For admission to module exam	module (sub-) examinations (number, form, scope)
Bayesian Statistics I (seminar)	2	-	-	-
Bayesian Statistics II (seminar)	2	-	-	Written exam (90 minutes)

Frequency at which the module is offered:	Winter semester (Bayesian Statistics I), summer semester (Bayesian Statistics II)
Prerequisites for taking the module:	None
Teaching unit(s):	Linguistics

FM1: Foundations of Mathematics	Number of credit points (CPs): 6
Module type (mandatory or elective module):	Elective module
Content and objectives of the module:	Qualification objectives: The students have the necessary background knowledge of mathematics to successfully complete the basic modules of the degree program. They have the neccesary organizational skills to gain this knowledge independently and are able to present content and context verbally. Content: Analysis: limits, functions, differential calculus, calculation of maxima and minima, integral calculus, integration of rational functions, indefinite integrals, functions of multiple variables, partial differentiation, multidimensional integrals Linear algebra: linear equation systems, Gaussian algorithm, determinants, matrices and vector calculus, scalar and vector products, lines and planes, differentiation of vector functions The subjects are taught through suitable online video lectures, such as those on Coursera or MIT OpenCourseWare.
Module (sub-)examination(s) (number, form, scope):	Oral exam, 20 minutes
Independent study time (in hours (h)):	150

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Video lecture (lecture)	-	-	-	-
Recitation course (recitation course)	2	-	Successful completion of assignments	-

Frequency at which the module is offered:	Winter semester
Prerequisites for taking the module:	None
Teaching unit(s):	Linguistics

IECL-MA-02: Introduction to Statistical Data Analysis	Number of credit points (CPs): 12
Module type (mandatory or elective module):	Mandatory module

Content and objectives of the module:	Content: In-depth knowledge is imparted in statistics (descriptive and inferential statistics) as well as in test-theoretical principles of diagnostics. Qualification objectives: The students will be able to: - create experimental designs, - select and apply appropriate experimental and statistical procedures, - conduct scholarly work independently, - conduct a statistical analysis of results of an empirical project in an independent manner; - design, execute and critically reflect on all components of an experimental study – from planning to data analysis – independently and based on scientific principles, - critically review and interpret the compiled data for a scientific publication.
Module (sub-)examination(s) (number, form, scope):	Please find course-accompanying module (sub-)examinations below.
Independent study time (in hours (h)):	300

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Statistics I (seminar)	2	-	Project paper (max. 10 pages) or assignments (at least 8 of 10)	-
Statistics II (seminar)	2	-	-	Written exam (90 minutes)

Frequency at which the module is offered:	Winter semester (Statistics I) and summer semester (Statistics II)
Prerequisites for taking the module:	None
Teaching unit(s):	Linguistics

IECL-MA-10: First Language Acquisition	Number of credit points (CPs): 6
Module type (mandatory or elective module):	Elective module

Content and objectives of the module:	Content: Theories of language acquisition, empirical findings on the acquisition of phonology, lexicon, and syntax; language acquisition disorders, multilingual acquisition, and methods of language acquisition research Qualification objectives: The students: - have an overview of the key developmental stages of first language acquisition - are familiar with the central theories in language acquisition research and are able to classify, in theoretical terms, essential empirical findings from selected fields of language acquisition research, - can independently gather the relevant results from publications in the field of language acquisition research, - are familiar with the essential experimental approaches in language acquisition research and are able to assess published studies with regard to their methodological quality.
Module (sub-)examination(s) (number, form, scope):	Please find course-accompanying module (sub-)examinations below.
Independent study time (in hours (h)):	150

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
First Language Acquisition (seminar)	2	Oral presentation of 45 minutes with moderation of discussion	-	Term paper (about 15 pages) or written exam (90 minutes)

Frequency at which the module is offered:	Winter semester
Prerequisites for taking the module:	None
Teaching unit(s):	Linguistics

IECL-MA-11: Language Processing	Number of credit points (CPs): 6
Module type (mandatory or elective module):	Elective module

Content and objectives of the module:	*Content:* Basic concepts of linguistic signal processing, articulatory and acoustic phonetics, theories of language and speech processing and links with phonology (instinctive features, phonological processes, syllable organization), theories of language perception, lexical processing, and word recognition *Qualification objectives:* The students: - have an overview of the main theories on the production and reception of spoken language, - are familiar with the central theories on language production and comprehension and are able to classify, in theoretical terms, essential empirical findings from selected fields of this branch of research, - can independently gather the relevant results from publications in the field of spoken language production and reception research, - are familiar with the essential experimental approaches in this research field and are able to assess published studies with regard to their methodological quality.
Module (sub-)examination(s) (number, form, scope):	Please find course-accompanying module (sub-)examinations below.
Independent study time (in hours (h)):	150

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Language Processing (seminar)	2	Oral presentation of 45 minutes with moderation of discussion	-	Term paper (about 15 pages) or written exam (90 minutes)

Frequency at which the module is offered:	Winter semester
Prerequisites for taking the module:	None
Teaching unit(s):	Linguistics

IECL-MA-12: Evidence Bases for Language Disorders	Number of credit points (CPs): 6
Module type (mandatory or elective module):	Elective module

Content and objectives of the module:	*Content:* - Basic concepts of evidence-based practice - ICF-based work in language therapy - Researching external evidence - Critical reading and evaluation of external evidence - Derivation of internal evidence - Study design, levels of evidence, and evidence hierarchy - Evidence-based procedures in diagnostics and therapies for language and speech disorders - Evidence-based treatment procedures in language therapy - Methods for the evaluation of language therapy *Qualification objectives:* The students: - have an overview of the essential basic concepts of evidence-based research, - are familiar with the key evidence-based procedures and areas of application in the treatment of speech and language disorders and are able to assess and describe diagnostic procedures and therapeutic approaches in relation to evidence-based criteria, - can independently gather the relevant results from publications in the field of evidence-based research, - know techniques for effectiveness evaluation in language therapy and can apply them.
Module (sub-)examination(s) (number, form, scope):	Please find course-accompanying module (sub-)examinations below.
Independent study time (in hours (h)):	150

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Evidence Bases for Language Disorders (seminar)	2	Oral presentation of 45 minutes with moderation of discussion	-	Seminar paper (about 15 pages) or written exam (90 minutes)

Frequency at which the module is offered:	Winter semester
Prerequisites for taking the module:	None
Teaching unit(s):	Linguistics

IECL-MA-20: Advanced Topics in First Language Acquisition	Number of credit points (CPs): 12
Module type (mandatory or elective module):	Elective module

Content and objectives of the module:	*Content:* This advanced module includes the intensive examination of selected topics relevant to the research field. *Qualification objectives:* The students: - are able to gather information independently on the current state of research on specific issues in the field of language acquisition research, - can critically examine research findings on first language acquisition and identify gaps in research, - are able to classify research papers in language acquisition research in terms of their theoretical relevance and methodological quality, - can formulate their own research questions and hypotheses and draw up suitable research plans.
Module (sub-)examination(s) (number, form, scope):	Term paper, about 15 pages
Independent study time (in hours (h)):	300

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Advanced Topics in First Language Acquisition I (seminar)	2	Preparing and moderating a discussion in a seminar session (90 minutes) or preparing a research exposé (oral presentation of 30 minutes with a 5-page written elaboration)	-	-
Advanced Topics in First Language Acquisition II (seminar)	2	Preparing and moderating a discussion in a seminar session (90 minutes) or preparing a research exposé (oral presentation of 30 minutes with a 5-page written elaboration)	-	-

Frequency at which the module is offered:	Winter semester (Advanced Topics in First Language Acquisition II) and summer semester (Advanced Topics in First Language Acquisition I)
Prerequisites for taking the module:	IECL-MA-10
Teaching unit(s):	Linguistics

IECL-MA-21: Advanced Topics in Language Processing	Number of credit points (CPs): 12
Module type (mandatory or elective module):	Elective module

Content and objectives of the module:	*Content:* This advanced module includes the intensive examination of selected topics relevant to the research field. *Qualification objectives:* Students are enabled to work on scholarly articles independently and read them critically and ask questions in a discussion of them or contribute to discussions on scholarly topics.
Module (sub-)examination(s) (number, form, scope):	Term paper, about 15 pages
Independent study time (in hours (h)):	300

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Advanced Topics in Language Processing I (seminar)	2	Preparing and moderating a discussion in a seminar session (90 minutes) or preparing a research exposé (oral presentation of 30 minutes with a 5-page written elaboration)	-	-
Advanced Topics in Language Processing II (seminar)	2	Preparing and moderating a discussion in a seminar session (90 minutes) or preparing a research exposé (oral presentation of 30 minutes with a 5-page written elaboration)	-	-

Frequency at which the module is offered:	Winter semester (Advanced Topics in Language Processing II) and summer semester (Advanced Topics in Language Processing I)
Prerequisites for taking the module:	IECL-MA-11
Teaching unit(s):	Linguistics

IECL-MA-22: Advanced Topics in Evidence Bases for Language Disorders	Number of credit points (CPs): 12
Module type (mandatory or elective module):	Elective module

Content and objectives of the module:	*Content:* This advanced module includes the intensive examination of selected topics relevant to the research field. *Qualification objectives:* Students are able to work on scholarly articles independently and read them critically and ask questions in a discussion of them or contribute to discussions on scholarly topics.
Module (sub-)examination(s) (number, form, scope):	Term paper, about 15 pages
Independent study time (in hours (h)):	300

Courses (teaching formats)	Contact time (in hrs/wk per semester)	Secondary examinations (number, form, scope)		Course-accompanying module (sub-) examinations (number, form, scope)
		For completing the module	For admission to module exam	
Advanced Topics in Evidence Bases I (seminar)	2	Preparing and moderating a discussion in a seminar session (90 minutes) or preparing a research exposé (oral presentation of 30 minutes with a 5-page written elaboration)	-	-
Advanced Topics in Evidence Bases II (seminar)	2	Preparing and moderating a discussion in a seminar session (90 minutes) or preparing a research exposé (oral presentation of 30 minutes with a 5-page written elaboration)	-	-

Frequency at which the module is offered:	Winter semester (Advanced Topics in Evidence Bases II) and summer semester (Advanced Topics in Evidence Bases I)
Prerequisites for taking the module:	IECL-MA-12
Teaching unit(s):	Linguistics