

Courses in the winter term 2024/25, 2024 examination regulations

Note: All mandatory elective courses ("Wahlpflichtbereich") can usually also be assigned to the Bachelor and Master Electives ("profilbildender Wahlbereich", CS-BW and CS-MW), even if this assignment is not explicitly stated below. Study Projects and Accompanying Seminars ("Begleitseminare") are for Masters' students only. For more information about the module identifiers, see the module descriptions here:

https://www.ikw.uni-osnabrueck.de/fileadmin/user_upload/study_information/Modulbeschreibungen_CognitiveScience_2024-08.pdf

No.	Name	Institute	Lecturers	ECTS	BSc. Module	MSc. Module
8.3133	Academic Writing in the Empirical Domains of Cognitive Science	LE Cognitive Science	Hohenberger, Annette, Gerdes, Janna	4	CS24-BW	CS24-MW
8.3416	Action & Cognition (Motor System) - Seminar	Neuropsychology	König, Peter	4	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3417	Action & Cognition (Visual System) - Lecture	Neuropsychology	König, Peter	4	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.30472	Advanced Introduction to Neuroinformatics (4 ECTS, PO2024)	Neuroinformatics	Pipa, Gordon	4	CS24-BWP-NI-x	CS24-MW
8.3546	Advanced NLP	Natural Language Processing	Bruni, Elia	4	CS24-BWP-CL-x	CS24-MWP-CL-x
8.3582	AI in Practice: How to get away from Jupyter notebooks?	Artificial Intelligence	Krumnack, Ulf	4	CS24-BW	CS24-MW
8.3201	Animal Communication meets Machine Learning	Machine Learning	Kietzmann, Tim Christian, Anthes, Daniel	4	CS24-BWP-NAI-x	CS24-MWP-NAI-x
8.3023	Anleitung zum wissenschaftlichen Arbeiten	Philosophy of Mind and Cognition	Meyer, Uwe	6	CS24-BW	CS24-MW
8.3108	Artificial Intelligence and the Web	Artificial Intelligence	Thelen, Tobias	4	CS24-BWP-AI-x	CS24-MWP-AI-x
8.3579	Begleitseminar zum Studienprojekt EBIMAS: Emergent behaviors in a multi-agent system with reinforcement learning (Part V)	Natural Language Processing	Bruni, Elia, Mayer, Julius	6	/	CS24-MWP-CL-x
8.3074	Begleitseminar zum Studienprojekt: Computing with Spikes (Part II)	Neurocomputation	Nieters, Pascal, Nosrat Nezami, Farbod	6	/	CS24-MWP-NI-x
8.3104	Begleitseminar zum Studienprojekt: Data Ethics Outreach Lab	Ethics of AI	Mühlhoff, Rainer, Lindemann, Nora Freya	6	/	CS24-MWP-EAI-x
8.3203	Begleitseminar zum Studienprojekt: Exploring Physical Understanding in LLMs (Part I)	Natural Language Processing	Bruni, Elia, Jassim, Serwan	6	/	CS24-MWP-CL-x
8.3088	Begleitseminar zum Study Project: Automatic Music Transcription (Part 2)	Computer Vision	Krumnack, Ulf, Kühnberger, Kai-Uwe, Brima, Yusuf	6	/	CS24-MWP-AI-x
8.3580	Begleitseminar zum Study Project: Dyadic eye tracking in virtual reality to investigate visual interaction (Part III)	Neuropsychology	Nolte, Debora, Sanchez Pacheco, Tracy, Walter, Jasmin	6	/	CS24-MWP-CNS-x
8.3231	Begleitseminar zum Study Project: Emotional Experience in Asexuality: Interdisciplinary Perspectives (Part I)	Philosophy of Mind and Cognition	Walter, Sven	4	/	CS24-MWP-PHIL-x
8.3049	Begleitseminar zum Study Project: Spatial Navigation supported by AI (Part II)	Neuropsychology	König, Peter	6	/	CS24-MWP-CNS-x
8.3365	Cognitive Development	Cognitive Modelling	Hohenberger, Annette	6	CS24-BWP-CMP-x	CS24-MWP-CMP-x
8.3125	Cognitive human-computer interaction	Artificial Intelligence	Kühnberger, Kai-Uwe	4	CS24-BWP-AI-x	CS24-MWP-AI-x
8.3204	Cognitive Science Student Journal - A deep dive	Artificial Intelligence	Frohn, Sabrina, Sanchez Pacheco, Tracy	4	CS24-BW	CS24-MW
8.3205	Cognitivism, Functionalism, and Computationalism	Philosophy of Mind and Cognition	Loock, Louis	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
	Communicate outward: Convey scientific knowledge to non-scientists	Artificial Intelligence	Frohn, Sabrina	4	CS24-BW	CS24-MW
8.3068	Computer Vision (Lecture + Practice)	Computer Vision	Niehaus, Lukas, Krumnack, Ulf	8	CS24-BWP-CV-x	CS24-MWP-CV-x
8.3206	Concepts in Deep Learning	Computer Vision	Niehaus, Lukas	4	CS24-BWP-CV-x	CS24-MWP-CV-x
8.3207	Conceptual abstraction and categorization (Conference training crash course)	Psycho- and Neurolinguistics	Kobrock, Kristina	4	CS24-BWP-LING-x	CS24-MWP-LING-x
8.4450	Einführung in die Ethik	Institut für Philosophie	Boshammer, Susanne	4	CS24-BWP-EAI-x	CS24-MW
SPZ 1.540	English for Studying Cognitive Science and Psychology: Introduction to Academic English	Language Center	Lauterbach, Frank	4	CS24-BW	CS24-MW
8.3438	Ethics in Theory and Practice for Cognitive Science Students (Intensive course)	Philosophy of Mind and Cognition	Meyer, Uwe	6	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.3209	Explainability of Large Language Models	Artificial Intelligence	Muhammad Abdelmoneim, Nohayr	4	CS24-BWP-CL-x	CS24-MWP-CL-x
8.3016	Foundations of Cognitive Science	Cognitive Modelling	Hohenberger, Annette	3	CS24-BP-FCS	CS24-MW
8.3210	From Zero to Data Analysis: Eye-Tracking and LMM in R	Neuropsychology	Sanchez Pacheco, Tracy, Nolte, Debora	4	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3211	Introduction to Animal Cognition	Comparative Biocognition	Pika, Simone	4	CS24-BP-CBS (CS24-BWP-CLCBS)	CS24-MW
8.3212	Introduction to Deep Learning (with an NLP angle)	Natural Language Processing	Bruni, Elia	8	CS24-BWP-CL-x	CS24-MWP-CL-x
8.3507	Introduction to Logic and Critical Thinking	Philosophy of Mind and Cognition	Hörzer, Gregor Michael	6	CS24-BP-LOG	CS24-MW
8.30471	Introduction to Neuroinformatics (8 ECTS, PO2024)	Neuroinformatics	Pipa, Gordon	8	CS24-BP-NI	CS24-MW
8.3126	Introduction to sleep and dreams [Blockseminar]	Neuroinformatics	Pipa, Gordon, Lüth, Katharina	4	CS24-BWP-CMP-x	CS24-MWP-CMP-x
8.3413	Introduction to Statistics and Data Analysis	Cognitive Modelling	N.N.,	8	CS24-BP-SDA	CS24-MW
8.3213	Introduction to Theoretical Linguistics (Lecture)	Psycho- and Neurolinguistics	Hoeks, Morwenna	4	CS24-BP-CBS (CS24-BWP-CLCBS)	CS24-MW
8.3124	Introduction to Theoretical Linguistics (Practice)	Psycho- and Neurolinguistics	Hoeks, Morwenna	4	CS24-BWP-LING-x	CS24-MW
8.3215	Journal Club "Spatial Cognition"	Neuropsychology	Schmidt, Vincent	4	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3383	Language and Communication Colloquium	Cognitive Modelling	Gotzner, Nicole, Hohenberger, Annette, Pika, Simone	2	CS24-BW	CS24-MW
8.3216	Language and Politics	Philosophy of Mind and Cognition	Meyer, Uwe, Komp, Nikola	4	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.3217	Linguistics Circle: Current Research in Psycholinguistics and Pragmatics	Psycho- and Neurolinguistics	Gotzner, Nicole	4	CS24-BWP-LING-x	CS24-MWP-LING-x
8.3562	Machine learning for cognitive computational neuroscience	Machine Learning	Kietzmann, Tim Christian, Sulewski, Philip	8	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3218	Meet the locals	Artificial Intelligence	Thelen, Tobias	2	CS24-BW	CS24-MW
8.3018	Methods of AI (Lecture)	Artificial Intelligence	Krumnack, Ulf	4	CS24-BWP-AI-x	CS24-MWP-AI-x
8.3019	Methods of AI (Seminar)	Artificial Intelligence	Muhammad Abdelmoneim, Nohayr	4	CS24-BWP-AI-x	CS24-MWP-AI-x
8.3128	Modeling in Cognitive Neuroscience	Computational Neuroscience	Musslick, Sebastian	8	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3219	Neuropragmatics	Psycho- and Neurolinguistics	Tourtouri, Eli	8	CS24-BWP-LING-x	CS24-MWP-LING-x
8.3220	Optimizing Experiment Design	Computational Neuroscience	Weinhardt, Daniel	4	CS24-BWP-CMP-x	CS24-MWP-CMP-x
8.3053	Philosophy of Mind and Cognition Colloquium	Philosophy of Mind and Cognition	Walter, Sven, Hörzer, Gregor Michael	2	CS24-BW	CS24-MW
8.3221	Primate Communications	Comparative Biocognition	Pika, Simone	4	CS24-BWP-CBC-x	CS24-MWP-CBC-x
8.3593	Projects at the intersection of neuroscience and machine learning	Machine Learning	Sulewski, Philip, Thorat, Sushrut, Kietzmann, Tim Christian	8	/	CS24-MWP-NAI-x
8.3075	Quest	Neuropsychology	König, Peter, Schmidt, Vincent	4	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3222	Reading group on cognitive abilities in artificial systems	Machine Learning	Thorat, Sushrut, Sommers, Rowan, Kietzmann, Tim Christian	4	CS24-BWP-NAI-x	CS24-MWP-NAI-x
8.3102	Research Seminar Ethics and Critical Theories of Artificial Intelligence	Ethics of AI	Mühlhoff, Rainer, Lindemann, Nora Freya	4	/	CS24-MWP-EAI-x
8.4449	Sarah Conly - Against autonomy: justifying coercive paternalism	Institut für Philosophie	Boshammer, Susanne	4	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.3323	Scientific Programming in Python	Artificial Intelligence	Krumnack, Ulf	4	CS24-BW	CS24-MW
8.3223	Sex and the Digital	Ethics of AI	Mühlhoff, Rainer	4	CS24-BW	CS24-MW

8.3224	Situated Affectivity: From Individuals' Emotions to Collective Harm	Philosophy of Mind and Cognition	Walter, Sven	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3103	Study Project: Data Ethics Outreach Lab	Ethics of AI	Mühlhoff, Rainer, Lindemann, Nora Freya	12	/	CS24-MP-SP
8.3410	Study Project: Affectivity in Political Language (Part II)	Philosophy of Mind and Cognition	Stephan, Achim, Meyer, Uwe, von Maur, Imke	12	/	CS24-MP-SP
8.3081	Study Project: Automatic Music Transcription (Part 2)	Computer Vision	Krumnack, Ulf, Kühnberger, Kai-Uwe, Brima, Yusuf	12	/	CS24-SP, CC24-SP
8.3073	Study Project: Computing with Spikes (Part II)	Neurocomputation	Nieters, Pascal, Nosrat Nezami, Farbod	12	/	CS24-MP-SP, CC24-MP-SP
8.3225	Study Project: Dialog (Part I)	Psycho- and Neurolinguistics	Gotzner, Nicole	12	/	CS24-MP-SP
8.3226	Study Project: Digital Realities: Its Vices and Virtues (Part I)	Philosophy of Mind and Cognition	Walter, Sven	12	/	CS24-MP-SP
8.3057	Study Project: DreamGuard: A Web Application for restless Nights (Part 2)	Neuroinformatics	Pipa, Gordon, Lüth, Katharina	12	/	CS24-MP-SP
8.3227	Study Project: Dyadic eye tracking in virtual reality to investigate visual interaction (Part III)	Neurobiopsychology	Sanchez Pacheco, Tracy, Nolte, Debora, Walter, Jasmin	12	/	CS24-MP-SP, CC24-MP-SP
8.3578	Study Project: EBIMAS: Emergent behaviors in a multi-agent system with reinforcement learning (Part V)	Natural Language Processing	Bruni, Elia, Mayer, Julius	12	/	CS24-MP-SP, CC24-MP-SP
8.3208	Study Project: Emotional Experience in Asexuality: Interdisciplinary Perspectives (Part I)	Philosophy of Mind and Cognition	Walter, Sven	12	/	CS24-MP-SP
8.3202	Study Project: Exploring Physical Understanding in LLMs (Part I)	Natural Language Processing	Bruni, Elia, Jassim, Serwan	12	/	CS24-MP-SP, CC24-MP-SP
8.3228	Study Project: Spatial Navigation supported by AI (Part II)	Neurobiopsychology	König, Peter	12	/	CS24-MP-SP, CC24-MP-SP
8.3229	The Philosophy of Free Will (Intensive Course)	Philosophy of Mind and Cognition	Walter, Sven	6	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3364	Time and Cognition	Cognitive Modelling	Hohenberger, Annette	6	CS24-BWP-CMP-x	CS24-MWP-CMP-x
8.3230	Universale Moral und Würde für alle? Kants Ethik und ihre Probleme	Philosophy of Mind and Cognition	Meyer, Uwe	4	CS24-BWP-EAI-x	CS24-MWP-EAI-x