

Courses in the summer term 2024, 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	Workgroup	Lecturers	ECTS	BSc. Module	MSc. Module
8.3008	Introduction to Artificial Intelligence and Logic Programming (Lecture + Practice)	Artificial Intelligence	Thelen, Tobias	8	CS24-BP-CAS (CS24-BWP-CLCAS)	CS24-MW
8.3274	Formal models for analyzing and creating music (CS-BWP-AI, CS-MWP-AI)	Artificial Intelligence	Kühnberger, Kai-Uwe	4	CS24-BWP-AI-x	CS24-MWP-AI-x
8.3575	Practical cognitive science communication	Artificial Intelligence	Frohn, Sabrina	4	CS24-BW	CS24-MW
8.3585	Reading course: Computational Cognitive Science	Artificial Intelligence	Kühnberger, Kai-Uwe	4	CS24-BWP-AI-x	CS24-MWP-AI-x
8.3606	Computational Creativity in Natural Language Processing	Artificial Intelligence	Muhammad Abdelmoneim, Nohayr	4	CS24-BWP-CL-x	CS24-MWP-CL-x
8.3045	Introduction to Cognitive (Neuro-)Psychology (CS-BP-CNP)	Cognitive Modelling	Hohenberger, Annette	8	CS24-BP-CBS (CS24-BWP-CLCBS)	CS24-MW
8.3065	Language: Evolution, its use, and social interaction	Cognitive Modelling	Tomasello, Rosario	4	CS24-BWP-LING-x	CS24-MWP-LING-x
8.3083	Trends in Language and Brain research	Cognitive Modelling	Tomasello, Rosario	6	CS24-BWP-LING-x	CS24-MWP-LING-x
8.3386	Episodic Cognition	Cognitive Modelling	Hohenberger, Annette	6	CS24-BWP-CMP-x	CS24-MWP-CMP-x
8.3531	Cognitive Science in the Anthropocene	Cognitive Modelling	Hohenberger, Annette	6	CS24-BWP-CMP-x	CS24-MWP-CMP-x
8.3552	Study Project: The mentality of apes by Wolfgang Köhler: One century later (Part IV)	Comparative Biocognition	Pika, Simone	12	/	CS24-MP-SP
8.3050	Automated Scientific Discovery	Computational Neuroscience	Musslick, Sebastian	8	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3275	Basic Programming in Python	Computational Neuroscience	Weinhardt, Daniel	4	CS24-BW	CS24-MW
8.3056	Deep Neural Network Analysis	Computer Vision	Niehaus, Lukas	4	CS24-BWP-CV-x	CS24-MWP-CV-x
8.3072	Machine Learning (Lecture) (CS-BP-NI, CS-BWP-AI, CS-BWP-INF, CS-BWP-NI)	Computer Vision	Heidemann, Gunther, Krumnack, Ulf, Niehaus, Lukas	12	CS24-BWP-CV-x	CS24-MW
8.3081	Study Project: Automatic Music Transcription (Part 1)	Computer Vision	Krumnack, Ulf, Kühnberger, Kai-Uwe, Brima, Yusuf	12	/	CS24-MP-SP, CC24-MP-SP
8.3082	Topics in Math for Cognitive Science	Computer Vision	Heidemann, Gunther	4	CS24-BWP-MCS	CS24-MWP-MCS
8.3088	Begleitseminar zum Study Project: Automatic Music Transcription (Part 1)	Computer Vision	Krumnack, Ulf, Kühnberger, Kai-Uwe, Brima, Yusuf	6	/	CS24-MWP-AI-x
8.3263	Advanced computer vision (CS-MWP-AI, CS-MWP-NI)	Computer Vision	Heidemann, Gunther, Krumnack, Ulf	4	CS24-BWP-CV-x	CS24-MWP-CV-x
8.3061	Introduction to the Ethics of AI – Discussion Group 1/2/3/4/5	Ethics of AI	Mühlhoff, Rainer	4	CS24-BWP-EAI-x	CS-MW
8.3102	Colloquium Ethics and Critical Theories of Artificial Intelligence	Ethics of AI	Mühlhoff, Rainer	4	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.3103	Study Project: Data Ethics Outreach Lab	Ethics of AI	Mühlhoff, Rainer	12	/	CS24-MP-SP
8.3529	Introduction to the Ethics of Artificial Intelligence	Ethics of AI	Mühlhoff, Rainer	4	CS24-BP-EAI	/
8.3567	Discrimination and AI	Ethics of AI	Lindemann, Nora Freya	4	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.4436	"Darf ich dich küssen?" - Philosophie der (sexuellen) Einwilligung	Institut für Philosophie	Buning, Leonie	4	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.4437	Grundbegriffe der analytischen Philosophie	Institut für Philosophie	Lowe, Charles	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.4438	Einführung in die politische Philosophie	Institut für Philosophie	Boshammer, Susanne	4	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.4440	Einführung in die Erkenntnistheorie und Wissenschaftsphilosophie	Institut für Philosophie	Lowe, Charles	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.4441	Wittgenstein - Tractatus logico-philosophicus	Institut für Philosophie	Brinz, Johannes	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.4442	Was ist philosophisches Denken?	Institut für Philosophie	Lavagno, Christian	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.4443	Einführung in die philosophische Ästhetik	Institut für Philosophie	Lavagno, Christian	4	CS24-BW	CS24-MW
8.4444	Einführung in die Religionsphilosophie	Institut für Philosophie	Schmoranz, Sebastian, Meyer, Uwe	4	CS24-BW	CS24-MW
SPZ 1.510	English for Studying Psychology and Cognitive Science: Academic English skills for Master and Bachelor Students	Language Center	Lauterbach, Frank	4	CS24-BW	CS24-MW
8.3017	Interdisciplinary Course: Lab Rotation	LE Cognitive Science	Lehrende IKW	12	/	CS24-MW
8.3085	Enhancing AI through Hybrid Data Sets	LE Cognitive Science	Schöning, Julius	4	CS24-BWP-AI-x	CS24-MWP-AI-x
8.3501	Mathematics for Cognitive Science (Lecture & Practice)	LE Cognitive Science	Römer, Tim, von Westenholz, Mandala	6	CS24-BP-MAT	CS24-MW
8.3079	Reading group on integrative systems approaches in computational cognitive neuroscience	Machine Learning	Thorat, Sushrut, Sommers, Rowan, Kietzmann, Tim Christian	4	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3593	Projects at the intersection of neuroscience and machine learning	Machine Learning	Kietzmann, Tim Christian, Sulewski, Philip	8	/	CS24-MWP-NAI-x
8.3612	Topics in Cognitive Neuroscience	Machine Learning	Thorat, Sushrut, Sommers, Rowan, Kietzmann, Tim Christian	4	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3001	Introduction to Computational Linguistics (Lecture + Practice)	Natural Language Processing	Bruni, Elia	8	CS24-BP-CAS (CS24-BWP-CLCAS)	CS24-MW
8.3087	Foundations of Mathematics for Deep Learning	Natural Language Processing	Bruni, Elia, Jassim, Serwan	8	CS24-BW	CS24-MW
8.3323	Scientific Programming in Python	Natural Language Processing	Bruni, Elia, Jassim, Serwan	4	CS24-BW	CS24-MW
8.3578	Study Project: Emergent behaviors in a multi-agent system with reinforcement learning (Part IV)	Natural Language Processing	Bruni, Elia, Mayer, Julius	12	/	CS24-MP-SP, CC24-MP-SP
8.3579	Begleitseminar zum Studienprojekt: Emergent behaviors in a multi-agent system with reinforcement learning (Part IV)	Natural Language Processing	Bruni, Elia, Mayer, Julius	6	/	CS24-MWP-CL-x
8.3600	Grounding LLMs into the physical world	Natural Language Processing	Bruni, Elia, Jassim, Serwan	8	CS24-BWP-CL-x	CS24-MWP-CL-x
8.3048	Study Project: Spatial Navigation supported by AI (Part I)	Neurobiopsychology	König, Peter	12	/	CS24-MP-SP, CC24-MP-SP

8.3049	Begleitseminar zum Study Project: Spatial Navigation supported by AI (Part I)	Neurobiopsychology	König, Peter	6	/	CS24-MWP-CNS-x
8.3075	Quest (Independent Study Course)	Neurobiopsychology	König, Peter, Schmidt, Vincent	4	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3106	Study Project: Human-A and EEG (Part II)	Neurobiopsychology	König, Peter, Sanchez Pacheco, Tracy, Nolte, Debora	12	/	CS24-MP-SP, CC24-MP-SP
8.3112	Journal Club "Spatial Cognition"	Neurobiopsychology	König, Peter, Schmidt, Vincent	4	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3127	Study Project: Dyadic eye tracking in virtual reality to investigate visual interaction (Part II)	Neurobiopsychology	König, Peter, Nolte, Debora, Walter, Jasmin	12	/	CS24-MP-SP, CC24-MP-SP
8.3416	Action & Cognition (Motor System) - Lecture	Neurobiopsychology	König, Peter, Walter, Jasmin	4	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3416	Action & Cognition (Visual System) - Seminar	Neurobiopsychology	König, Peter	4	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3073	Study Project: Computing with Spikes (Part I)	Neurocomputation	Nieters, Pascal, Nosrat Nezami, Farbod	12	/	CS24-MP-SP, CC24-MP-SP
8.3074	Begleitseminar zum Studienprojekt: Computing with Spikes (Part I)	Neurocomputation	Nieters, Pascal, Nosrat Nezami, Farbod	6	/	CS24-MWP-NI-x
8.3047	Neurodynamics	Neuroinformatics	Pipa, Gordon	8	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3055	Decoding Neuronal Activity	Neuroinformatics	Pipa, Gordon	4	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3057	Study Project: DreamGuard: A Web Application for restless Nights (Part I)	Neuroinformatics	Pipa, Gordon, Lüth, Katharina	12	/	CS24-MP-SP
8.3066	Modelling of synaptic plasticity	Neuroinformatics	Nosrat Nezami, Farbod, Zemliak, Viktoriaa	4	CS24-BWP-NI-x	CS24-MWP-NI-x
8.3086	Begleitseminar zum Studienprojekt: DreamGuard: A Web Application for restless Nights (Part I)	Neuroinformatics	Pipa, Gordon, Lüth, Katharina	6	/	CS24-MWP-AI-x
8.3090	Diving into neuromorphic computing	Neuroinformatics	Pipa, Gordon	4	CS24-BWP-NI-x	CS24-MWP-NI-x
8.3023	Anleitung zum wissenschaftlichen Arbeiten	Philosophy of Mind and Cognition	Meyer, Uwe	6	CS24-BW	CS24-MW
8.3051	Consciousness, Science, and the Universe	Philosophy of Mind and Cognition	Hörzer, Gregor Michael	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3052	Current topics in the ethics of information technology	Philosophy of Mind and Cognition	Meyer, Uwe	4	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.3053	Reading Club "Affectivity"	Philosophy of Mind and Cognition	Walter, Sven, Hörzer, Gregor Michael	2	CS24-BW	CS24-MW
8.3054	Das gute Leben	Philosophy of Mind and Cognition	von Maur, Imke	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3059	Extended and Bounded Cognition	Philosophy of Mind and Cognition	Loock, Louis	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3067	Neuere Beiträge zur deutschsprachigen Debatte über Willensfreiheit	Philosophy of Mind and Cognition	Meyer, Uwe	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3069	Neuroscience and Philosophy	Philosophy of Mind and Cognition	Walter, Sven	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3071	Personal Identity, Norms, and Ethics: The Philosophy of Derek Parfit	Philosophy of Mind and Cognition	Meyer, Uwe	8	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3076	Philosophy of Emotions (Intensive Course)	Philosophy of Mind and Cognition	von Maur, Imke	6	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3077	Rationalism and Empiricism: Two Paradigms in Cognitive Science and their Philosophical Origins in Descartes and Hume (Part 1)	Philosophy of Mind and Cognition	Walter, Sven	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3078	Rationalism and Empiricism: Two Paradigms in Cognitive Science and their Philosophical Origins in Descartes and Hume (Part 2)	Philosophy of Mind and Cognition	Walter, Sven	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3119	Think like a Feminist	Philosophy of Mind and Cognition	Walter, Sven	6	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3405	Philosophy for Cognitive Science	Philosophy of Mind and Cognition	Walter, Sven, Hörzer, Gregor Michael, von Maur, Imke, Meyer, Uwe	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3410	Affectivity in Political Language (Part I)	Philosophy of Mind and Cognition	Stephan, Achim, Meyer, Uwe, von Maur, Imke	12	/	CS24-MP-SP
8.3505	Introduction to the Philosophy of Mind (Intensive Course)	Philosophy of Mind and Cognition	Hörzer, Gregor Michael	6	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3058	Experimenting with language	Psycho- and Neurolinguistics	Gotzner, Nicole	4	CS24-BWP-LING-x	CS24-MWP-LING-x
8.3060	Introduction to Psycholinguistics	Psycho- and Neurolinguistics	Gotzner, Nicole, Hoeks, Morwenna	8	CS24-BWP-LING-x	CS24-MWP-LING-x
8.3084	Writing like a language scientist	Psycho- and Neurolinguistics	Gotzner, Nicole	4	CS24-BW	CS24-MW
8.3383	Language and Communication Colloquium	Psycho- and Neurolinguistics	Gotzner, Nicole, Hohenberger, Annette, Pika, Simone	2	CS24-BW	CS24-MW
8.3596	Study Project. The secret lives of adjectives: The Psycholinguistics of adjective use (Part III)	Psycho- and Neurolinguistics	Tourtouri, Elli, Gotzner, Nicole	12	/	CS24-MP-SP
8.3597	Begleitseminar zum Studienprojekt: The secret lives of adjectives: The Psycholinguistics of adjective use (Part III)	Psycho- and Neurolinguistics	Tourtouri, Elli, Gotzner, Nicole	6	/	CS24-MWP-LING-x