

## Courses in the summer term 2023, 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](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) (CS-BP-AI)	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
8.3275	Basic Programming in Python	Artificial Intelligence	Muhammad Abdelmoneim, Nohayr	4	CS24-BWP-MCS	CS24-MWP-MCS
8.3575	Practical cognitive science communication	Artificial Intelligence	Thelen, Tobias, Krieger, Laura, Titz, Lisa, Frohn, Sabrina	8	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
8.3515	Language acquisition in multiple perspectives: From sounds to discourse	Cognitive Modelling	Hohenberger, Annette	6	CS24-BWP-LING-x	CS24-MWP-LING-x
8.3595	The (cognitive) science of peace	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 II)	Comparative Biocognition	Pika, Simone	12	/	CS24-MP-SP
8.3553	Begleitseminar zum Studienprojekt: The mentality of apes by Wolfgang Köhler: One century later (Part II)	Comparative Biocognition	Pika, Simone	6	/	CS24-MWP-CBC-x
8.3072	Machine Learning (Lecture) (CS-BP-NI, CS-BWP-AI, CS-BWP-INF, CS-BWP-NI)	Computer Vision	Heidemann, Gunther, Krumnack, Ulf	12	CS24-BWP-CV-x	CS24-MW
8.3263	Advanced computer vision (CS-MWP-AI, CS-MWP-NI)	Computer Vision	Heidemann, Gunther	4	CS24-BWP-CV-x	CS24-MWP-CV-x
8.3576	Study Project: Promoting your wellbeing - Theory and practice (Part II)	Computer Vision	Krumnack, Ulf	12	/	CS24-MP-SP, CC24-MP-SP
8.3590	Deep learning for image generation	Computer Vision	Krumnack, Ulf	4	CS24-BWP-CV-x	CS24-MWP-CV-x
8.3539	Study Project: Data Ethics Outreach Lab Part III	Ethics of AI	Mühlhoff, Rainer	12	/	CS24-MP-SP
8.3540	Data Ethics Outreach Lab (Begleitseminar zum Studienprojekt)	Ethics of AI	Mühlhoff, Rainer	6	/	CS24-MWP-EAI-x
8.3583	Colloquium ethics and critique in the digital society	Ethics of AI	Mühlhoff, Rainer	4	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.3586	An introduction to science and technology studies (Intensive course)	Ethics of AI	Lindemann, Nora Freya	6	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.3601	Critical perspectives on AI	Ethics of AI	Schütze, Paul	4	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.4405	Einführung in die Philosophie der künstlichen Intelligenz	Institut für Philosophie	Brinz, Johannes	4	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.4409	Philosophische Probleme der Biologie	Institut für Philosophie	Schweitzer, Bertold	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.4413	Einführung in die Erkenntnistheorie	Institut für Philosophie	Kompa, Nikola	4	CS24-BWP-PHIL-x	CS24-MW
8.4417	Einführung in die Politische Philosophie	Institut für Philosophie	Lavagno, Christian	4	CS24-BWP-EAI-x	/
8.4416	Was ist Wissenschaft? Zum Abgrenzungsproblem	Institut für Philosophie	Lowe, Charles	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3017	Interdisciplinary Course: Lab Rotation	LE Cognitive Science	Lehrende IKW	12	/	CS24-MW
8.3029	Colloquium of the Institute of Cognitive Science	LE Cognitive Science	Pipa, Gordon	2	CS24-BW	CS24-MW
8.3571	Study project: Perceptual enhancement technologies Part II	LE Cognitive Science	Schöning, Julius	12	/	CS24-MP-SP, CC24-MP-SP
8.3611	Study Project: Bed of the Future	LE Cognitive Science	Appel, Kristoffer, Appel, Kristoffer	12	/	CS24-MP-SP
8.3592	Reading group at the intersection of neuroscience and machine learning	Machine Learning	Kietzmann, Tim Christian, Thorat, Sushrut, Sommers, Rowan	4	CS24-BWP-NAI-x	CS24-MWP-NAI-x
8.3593	Projects at the intersection of neuroscience and machine learning	Machine Learning	Kietzmann, Tim Christian, Thorat, Sushrut	8	CS24-BWP-NAI-x	CS24-MWP-NAI-x
8.3594	BrainBuzz - Science communication lab	Machine Learning	Kietzmann, Tim Christian	8	CS24-BW	CS24-MW
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
8.3323	Scientific Programming in Python	Natural Language Processing	Bruni, Elia	4	CS24-BWP-MCS	CS24-MWP-MCS
8.3487	Deep reinforcement learning	Natural Language Processing	Bruni, Elia	8	CS24-BWP-AI-x	CS24-MWP-AI-x
8.3578	Study Project: Emergent behaviors in a multi-agent system with reinforcement learning (Part II)	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	Natural Language Processing	Bruni, Elia, Mayer, Julius	6	/	CS24-MWP-CL-x
8.3600	Advanced methods for multi-agent communication	Natural Language Processing	Bruni, Elia, Mayer, Julius	8	CS24-BWP-CL-x	CS24-MWP-CL-x
8.3610	MicrocosmAI - Research in the field of emergence in multi-agent systems with reinforcement learning	Natural Language Processing	Bruni, Elia, Mayer, Julius	4	CS24-BWP-CL-x	CS24-MWP-CL-x
8.3416	Action & Cognition (Visual System)	Neurobiopsychology	König, Peter	4	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3436	Introduction to Unity	Neurobiopsychology	König, Peter	4	CS24-BWP-MCS	CS24-MWP-MCS
8.3491	Action & Cognition: Higher Cognitive Functions	Neurobiopsychology	König, Peter	4	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3532	Designing and conducting an EEG study	Neurobiopsychology	König, Peter, Nolte, Debora	4	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3588	Study Project: Sensory augmentation and grasping movements (Part I)	Neurobiopsychology	König, Peter	12	/	CS24-MP-SP, CC24-MP-SP

8.3589	Begleitseminar zum Studienprojekt: Sensory augmentation and grasping movements (Part I)	Neurobiopsychology	König, Peter	6	/	CS24-MWP-CNS-x
8.3047	Neurodynamics (Lecture + Tutorial)	Neurocomputation	Nieters, Pascal	8	CS24-BWP-CNS-x	CS24-MWP-CNS-x
8.3609	What do single neurons compute?	Neurocomputation	Nieters, Pascal	4	CS24-BWP-NI-x	CS24-MWP-NI-x
8.3178	Introduction to Sleep and Dream [ungraded]	Neuroinformatics	Lüth, Katharina, Pipa, Gordon	4	CS24-BW	CS24-MW
8.3556	Why we dream	Neuroinformatics	Pipa, Gordon, Lüth, Katharina	4	CS24-BWP-CMP-x	CS24-MWP-CMP-x
8.3023	Anleitung zum wissenschaftlichen Arbeiten (CS-BP-MCS, CS-BW-IWS)	Philosophy of Mind and Cognitior	Meyer, Uwe	6	CS24-BW	CS24-MW
8.3053	Reading Club "Affectivity"	Philosophy of Mind and Cognitior	Stephan, Achim, Walter, Sven	2	CS24-BW	CS24-MW
8.3405	Philosophy for Cognitive Science	Philosophy of Mind and Cognitior	Walter, Sven, Hörzer, Gregor Michael, von Maur, Imke, Stephan, Achim, Mühlhoff, Rainer	4	CS24-BP-PHIL	CS24-MW
8.3438	Ethics in Theory and Practice for Cognitive Science Students (Intensive course)	Philosophy of Mind and Cognitior	Meyer, Uwe	6	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.3496	Gefühle - Können wir Ihnen trauen?	Philosophy of Mind and Cognitior	Stephan, Achim	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3505	Introduction to the Philosophy of Mind (Intensive Course)	Philosophy of Mind and Cognitior	Hörzer, Gregor Michael, Walter, Sven	6	CS24-BP-PHIL	CS24-MWP-PHIL-x
8.3517	Ethics in Theory and Practice for Cognitive Science Students	Philosophy of Mind and Cognitior	Meyer, Uwe	4	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.3535	Research Seminar: Situated Affectivity	Philosophy of Mind and Cognitior	Stephan, Achim	6	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3591	David Chalmers' "Reality+": Philosophical issues about simulations and VR	Philosophy of Mind and Cognitior	Hörzer, Gregor Michael	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3599	Study Project: Why do the folk believe that free will is an illusion? (Part I)	Philosophy of Mind and Cognitior	Walter, Sven	12	/	CS24-MP-SP
8.3602	A theory of moral responsibility	Philosophy of Mind and Cognitior	Meyer, Uwe	4	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.3603	Introduction to Metaethics (A)	Philosophy of Mind and Cognitior	Meyer, Uwe	4	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.3604	Introduction to Metaethics (B)	Philosophy of Mind and Cognitior	Meyer, Uwe	4	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.3605	Empathy in a digial age	Philosophy of Mind and Cognitior	Walter, Sven	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3607	Ecological emotions: Epistemology, Ethics and Education	Philosophy of Mind and Cognitior	von Maur, Imke	4	CS24-BWP-PHIL-x	CS24-MWP-PHIL-x
8.3608	Political epistemology: Ignorance, Fake News and Polarization	Philosophy of Mind and Cognitior	von Maur, Imke	4	CS24-BWP-EAI-x	CS24-MWP-EAI-x
8.3383	Language and Communication Colloquium	Psycho- and Neurolinguistics	Gotzner, Nicole, Hohenberger, Annette, Pika, Simone	2	CS24-BW	CS24-MW
8.3584	Psychosemantics	Psycho- and Neurolinguistics	Gotzner, Nicole	6	CS24-BWP-LING-x	CS24-MWP-LING-x
8.3596	Study Project: The secret lives of adjectives: The Psycholinguistics of adjective use (Part I)	Psycho- and Neurolinguistics	Tourtouri, Elli	12	/	CS24-MP-SP
8.3597	Begleitseminar zum Studienprojekt: The secret lives of adjectives: The Psycholinguistics of adjective use (Part I)	Psycho- and Neurolinguistics	Tourtouri, Elli	6	/	CS24-MWP-LING-x