

MSc SEDS additional course / seminar options

(courses in bold are offered in summer semester 2024)

version: April 2024

Module	Title of the course	Course No	ECTS	Department	Language	Semester	
Found.: Focus Area Mathematics	Mathematics for Political Science	POL-26110	7 (lecture + tutorial)	Political Science	en	WiSe/SuSe	
Found.: Focus Area Statistics	Einführung in die Bayes-Statistik	PSY-15790	4 (seminar)	Psychology	de/en	WiSe 2022/23	
	Statistics	LIN-14850	6 (seminar)	Linguistics	en	WiSe 2023/24	
Found.: Focus Area Mathematics	Datenmathematik	INF-21120	9 (lecture + tutorial)	Computer Science	de	SuSe 2023	
Found.: Focus Area Computer Science	Data Mining Basic Concepts	INF-21110	6 (lecture + tutorial)	Computer Science	en	WiSe 2023/24	
	Software Engineering	INF-11890	6 (lecture + tutorial)	Computer Science	en	SuSe 2024	
Advanced Methods: Computer Science	Network Visualization	Not found	6 (lecture + tutorial)	Computer Science	de/en	WiSe 2019/20	
	Efficient Route Planning Techniques	INF-21390	6 (lecture + tutorial)	Computer Science	en	WiSe 2019/20	
	Geographic Information Systems	INF-10615	6 (lecture + tutorial)	Computer Science	en	WiSe 2023/24	
	Research Methods in HCI	INF-14270	6 (lecture + tutorial)	Computer Science	en	WiSe 2019/20	
	Document Analysis: Computational Methods	INF-14400	6 (lecture + tutorial)	Computer Science	en	SuSe 2024	
	Graph Data Management and Analysis	INF-21320	6 (lecture + tutorial)	Computer Science	en	SuSe 2024	
	Network Modeling and Relational Machine Learning	INF-14830	6 (lecture + tutorial)	Computer Science	en	WiSe 2021/22	
	Machine Learning and AI for Data Science	INF-14710	6 (lecture + tutorial)	Computer Science	en	WiSe 2020/21	
	Machine-Learning with Kernels	INF-15010	6 (lecture + tutorial)	Computer Science	en	SuSe 2021	
	Image Analysis II: 3D and Motion Reconstruction	INF-21450	6 (lecture + tutorial)	Computer Science	en	WiSe 2023/24	
	Probabilistic Modelling for Computer Scientists	INF-21460	6 (lecture + tutorial)	Computer Science	en	WiSe 2021/22	
	Optimization for Data Science	INF-15380	6 (lecture)	Computer Science	en	WiSe 2021/22	
	Scientific Machine Learning	INF-15480	3 (seminar)	Computer Science	en	WiSe 2021/22	
	Data Visualization: Basic Concepts	INF-14390	6 (lecture + tutorial)	Computer Science	en	SuSe 2024	
	Data Visualization: Advanced Topics	INF-14690	6 (lecture + tutorial)	Computer Science	en	WiSe 2023/24	
	Word Representations and Language Modeling	INF-15400	6 (lecture)	Computer Science	en	WiSe 2023/24	
	Multimedia Retrieval: Basic Concepts	INF-14480	6 (lecture)	Computer Science	en	SuSe 2023	
	Methods for Explainable AI	INF-15530	6 (lecture)	Computer Science	en	SuSe 2024	
	Data Mining Basic Concepts	INF-21110	6 (lecture + tutorial)	Computer Science	en	WiSe 2023/24	
	Introduction to Machine Learning	INF-15520	6 (lecture)	Computer Science	en	SuSe 2024	
	Algorithm Engineering	INF-14550	6 (lecture + tutorial)	Computer Science	en	WiSe 2023/24	
	Applications for Powerwall and Virtual Reality Environments	INF-13270	6 (lecture + tutorial)	Computer Science	en	WiSe 2023/24	
	Randomized Algorithms	INF-21480	6 (lecture)	Computer Science	en	WiSe 2023/24	
	Seminar Data Analysis and Visualization	INF-15430	3 (seminar)	Computer Science	en	SuSe 2024	
	Advanced Methods: Statistics	Network Modeling and Relational Machine Learning	INF-14830	6 (lecture + tutorial)	Computer Science	en	WiSe 2021/22
		Probabilistic Modelling for Computer Scientists	INF-21460	6 (lecture + tutorial)	Computer Science	en	WiSe 2021/22
Machine Learning		ECO-19600	8 (lecture + tutorial)	Economics	en	SuSe 2024	
Applied Bayesian Statistics		POL-16960	7 (seminar)	Political Science	en	WiSe 2018/19	
Multilevel Modelling		POL-19410	7 (seminar)	Political Science	en	SuSe 2019	
Einführung in die Bayes-Statistik		PSY-15790	4 (seminar)	Psychology	de/en	WiSe 2022/23	
Strukturgleichungsmodelle		PSY-15610	4 (seminar)	Psychology	de	SuSe 2024	
Statistical Learning	ECO-18690	8 (lecture)	Economics	en	SuSe 2023		
Social Science Applications	Hands-On Introduction to Data Scraping	POL-22400	7 (seminar)	Political Science	en	WiSe 2018/19	
	Einführung in die quantitative Textanalyse	POL-22330	7 (seminar)	Political Science	de	WiSe 2018/19	
	Big Data in Econometrics and Finance	ECO-15590	6 (seminar)	Economics	en	WiSe 2018/19	

	Econometrics and Machine Learning	ECO-16520	6 (seminar)	Economics	en	SuSe 2019
	Political Conflict in the Digital Age	POL-23530	7 (seminar)	Political Science	en	WiSe 2019/20
	Neuer Theorien und Methoden der Wahlforschung	POL-22950	7 (seminar)	Political Science	de	SuSe 2024
	Discursive Power	POL-23820	7 (seminar)	Political Science	en	SuSe 2020
	Methoden der Sozialwissenschaftlichen Textanalyse	POL-23470	7 (seminar)	Political Science	de	SuSe 2020
	Authoritarian Information Control	POL-23710	7 (seminar)	Political Science	en	SuSe 2020
	Advanced Social Network Analysis: Comparing Networks	POL-23680	7 (seminar)	Political Science	en	SuSe 2020
	Digital Methods and Psychological Insights in Pandemic Times	PSY-16430	6 (seminar)	Psychology	en	SuSe 2020
	Probabilistic Modelling for Computer Scientists	INF-21460	6 (lecture + tutorial)	Computer Science	en	WiSe 2021/22
	Master's Seminar: Visual Data Exploration	INF-21340	4 (seminar)	Computer Science	en	SuSe 2020
	Master's Seminar Databases and Information Systems	INF-14460	4 (seminar)	Computer Science	en	SuSe 2020
	Election Forecasting	POL-23860	7 (seminar)	Political Science	en	SuSe 2021
	Web Data Collection with R	POL-24730	7 (seminar)	Political Science	en	WiSe 2020/21
	Wahlsystemforschung	POL-24710	7 (seminar)	Political Science	de	WiSe 2021/22
	Cutting-edge Debates in Artificial Intelligence	LIN-20770	6 (seminar)	Linguistics	en	WiSe 2020/21
	Master's Seminar Algorithmics	INF-14450	4 (seminar)	Computer Science	en	SuSe 2021
	Master's Seminar Data and Information Mining	INF-15030	3 (seminar)	Computer Science	en	SuSe 2021
	Master's Seminar Data Analysis and Visualization	INF-14750	3 (seminar)	Computer Science	en	SuSe 2021
	Applied Visual Analytics	INF-21230	6 (directed studies)	Computer Science	en	SuSe 2024
	Data Management for Social Scientists	POL-23770	7 (seminar)	Political Science	en	SuSe 2021
	Property Rights and Rural Development	POL-25140	7 (seminar)	Political Science	en	SuSe 2021
	Introduction to Computer-Based Text Analysis: Analysis of Political	POL-25340	7 (seminar)	Political Science	en	SuSe 2021
	Econometric Projects - Economic Forecasting	ECO-17000	6 (seminar)	Economics	en	SuSe 2021
	Künstliche Intelligenz	LIN-19940	6 (seminar)	Linguistics	de	SuSe 2021
	Neurolinguistics	LIN-21170	9 (seminar)	Linguistics	en	WiSe 2021/22
	Multi-level Data Analysis	SOC-27810	9 (seminar)	Sociology	en	WiSe 2021/22
	The Legacy of Violence in Pandemic Times: Global Health Challenges and Gender Dynamics	POL-26230	7 (seminar)	Political Science	en	WiSe 2021/22
	The Future of Work and Welfare: Interdisciplinary Perspectives from Political Science and Economics	POL-26160	7 (seminar)	Political Science	en	WiSe 2021/22
	Digital Media and the Politics of Conflict and Contention	POL-25640	7 (seminar)	Political Science	en	WiSe 2021/22
	The Politics of Inequality	POL-25410	7 (seminar)	Political Science	en	SuSe 2024
	Deep Learning with Python	LIN-19690	9 (seminar)	Linguistics	en	SuSe 2024
	Digital Governance	POL-24390	7 (seminar)	Political Science	en	WiSe 2021/22
	Advanced Statistics	LIN-21290	6 (seminar)	Linguistics	en	WiSe 2022/23
	Einführung in die Bayes-Statistik	PSY-15790	4 (seminar)	Psychology	de/en	WiSe 2022/23
	Strukturgleichungsmodelle	PSY-15610	4 (seminar)	Psychology	de	SuSe 2024
	Measurement of Inequality	SOC-29140	6 (seminar)	Sociology	en	WiSe 2022/23
	Regression Analysis	SOC-29170	6 (seminar)	Sociology	en	WiSe 2022/23
	Introduction to Survey Experiments	POL-28280	7 (seminar)	Political Science	en	SuSe 2024
	Applied Bank and Risk Management	ECO-17560	6 (seminar)	Economics	en	SuSe 2023
	Causal Inference in Political Science Research	POL-26420	7 (seminar)	Political Science	en	SuSe 2023
Programming and Scripting	Linguistic Gaming in Python	LIN-15700	6 (seminar)	Linguistics	en	WiSe 2022/23
	Deep Learning with Python	LIN-19690	9 (seminar)	Linguistics	en	SuSe 2024
	R Basis Bootcamp	PSY-15530	4 (seminar)	Psychology	de	WiSe 2022/23