

Überblick Masterstudiengang Sport Exercise Science

Module-number	CP	Title of module	Responsible	R/E ¹	Form	SWS ²	Title of course	Language	Exam (german/english), duration
¹ required/elective module									
² weekly hours per semester									
1st semester									
SG861001	5	Biomechanics, Human Movement and Neuromechanical Control	Franklin	R	L	1	Biomechanics	englisch	Klausur/written exam (90 min)
					L	1	Human Movement Science		
					L	1	Neuromechanical Control		
					Se	1	Biomechanical Tests and Current Research Questions		
					Se	1	Research in Neuromechanical Control		
					Se	1	Classical and Contemporary Research in Human Movement Science		
SG861002	5	Current Topics in Exercise Biology, Performance Testing and Health	Wackerhage	R	L	1	Current Topics in Exercise Biology	englisch	wissenschaftliche Ausarbeitung/research paper (1500 words)
					L	2	Current Topics in Performance Analysis & Testing		
					Se	2	Current Topics in Exercise Biology		
					Se	1	Current Topics in Performance Analysis & Testing		
SG861003	5	Current Social and Political Topics of Sport in Global Societies	N.N.	R	L	2	Current Social and Political Topics of Sport in Global Societies	englisch	Übungsleistung/exercises
					Se	2	Current Social and Political Topics of Sport in Global Societies		
SG810002	5	Study Design; Ethics - Research Methods	Klug	R	L	2	Advanced Study Design; Ethics	englisch	wissenschaftliche Ausarbeitung/research paper + Klausur/written exam (90 min)
					Se	2	Applied Study Design; Ethics		
SG861021	5	Technical Analysis	Franklin	R	Se	4	Technical Analysis	englisch	Klausur/written exam 90 min
WI001158	5	Entrepreneurial Opportunity Development	N.N.	R	L	2	Entwicklung unternehmerischer Geschäftsideen (MSE)	englisch	Projektarbeit/projekt work
2nd semester									
SG861022	6	Advanced Statistics	Klug	R	L	2	Advanced Statistics	englisch	Klausur/written exam (90 min)
					Se	2	Applied Statistics		
					Ex	1	Applied Statistics Practical Training		
Electives A: Choose 4 (24 Credits)									
SG861006	6	Methods in Neuromechanics	Franklin	E	L	1	Neuromechanics Methods	englisch	Mündl. Prüfung/oral exam (60 min)
					Ex	3	Neuromechanics Methods		
SG861004	6	Biomechanical Methods and Application	Paternoster	E	L	2	Applied Biomechanical Research	englisch	mündl. Prüfung/oral exam (20 min)
					Ex	2	Application of Biomechanical Research Methods		
SG861005	6	Methods in Human Movement Science	Hermisdörfer	E	Se	2	Principles of Research Paradigms in Human Movement Science	englisch	Laborleistung/laboratory assignment
					Ex	2	Application of Research Methods in Human Movement Science		
SG861007	6	Exercise Biology Methods	Wackerhage	E	Se	1	Exercise Biology Methods	englisch	Mündl. Prüfung/oral exam (20 min.)
					Ex	3	Exercise Biology Methods		
SG861008	6	Methods of Performance Analysis and Testing	Kolbinger	E	Se	2	Methods of Action Detection	englisch	Laborleistung/laboratory assignment
					Se	2	Methods of Position Detection		
SG861010	6	Methods in Performance Psychology	Ehrlenspiel	E	Se	1	Performance Psychology	englisch	wiss. Ausarbeitung über Laborleistung/ evaluation report about a laboratory assignment, Präsentation/ presentation
					Se	1	Differential Psychology of Sport		
					Ex	1	Writing a Psychological Evaluation Report		
SG862023	6	Sports Informatics	Link	E	Ex	4	Sports Informatics	englisch	wissenschaftliche Ausarbeitung/research paper
SG861024	6	Nutrition for Human Performance: Current Topics and Research Methods	Köhler	E	Se	2	Current Topics in Sports Nutrition	englisch	mündl. Prüfung/oral exam (30 min)
					Ex	2	Research Methods in Sports Nutrition		
3rd semester									
Free	5	Extracurricular Qualifications		E					
Electives B: Choose 5 (25 Credits required)									
SG861011	5	Current Topics in Human Movement Science	Hermisdörfer	E	Ex	2	Journal Club - Current Topics in Human Movement Science	englisch	Projektarbeit/project work
					Se	2	Projekt - Current Topics in Human Movement Science		
SG860012	5	Neuromuscular Control and Learning	Franklin	E	Se	2	Neuromuscular Control and Learning	englisch	Präsentation/presentation
					Ex	2	Neuromuscular Control and Learning Laboratory		
SG860013	5	Human Robotics	Franklin	E	Se	2	Human Robotics - seminar	englisch	Präsentation/presentation
					Ex	2	Human Robotics - exercise		
SG860020	5	Muscle Function and Human Movement Studies	Schwirtz	E	L	2	Muscle Function and Human Movement Studies	englisch	Fallstudie/ research project, Präsentation/presentation
					Se	2	High-End Biomechanical Methods in Muscle Function and Human Movement Analysis		
SG860021	5	Evidence-informed training for performance, fitness & health	Wackerhage	E	Ex	2	Evidence-based training for performance, fitness & health	englisch	Projektarbeit/project work
					L	1	Evidence-based training for performance, fitness & health		
SG860015	5	Performance Analysis Specialisation	Lames	E	Se	2	Performance Analysis Specialisation	englisch	wiss. Ausarbeitung/research paper
					Ex	2	Performance Analysis Specialisation		

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SG861016	5	Sports Analytics	Link	E	Se	4	Sports Analytics	englisch	Projektarbeit/project work
SG810005	5	Qualitative Research Methods	Richter	E	Se	2	Methodology of Qualitative Research	englisch	wiss. Ausarbeitung/research paper
					Ex	2	Methods of Qualitative Data Inquiry and Analysis		
SG8000160	6	Sponsorship-Linked Marketing	Königstorfer	E	L	2	Sponsorship-Linked Marketing	englisch	Klausur/written exam (60 min)
					Se	2	Sponsorship-Linked Marketing		
SG861025	5	Neuronal and Cognitive Aspects in Motor Control	Hermsdörfer	E	Se	2	Project - Neuronal and Cognitive Aspects in Motor Control	englisch	Projektarbeit/project work
					Ex	2	Journal Club - Neuronal and Cognitive Aspects in Motor Control		
SG860022	5	Special Topics in Elite Level Sports	Kolbinger	E	Ex	2	Researching Special Topics in Elite Level Sports	englisch	Projektarbeit/project work
					Se	2	Special Topics in Elite Level Sports		
SG860023	5	New Technologies in Neurorehabilitation and Motor Learning	Hermsdörfer	E	Ex	1	New technologies in neurorehabilitation and motor learning - excursion	englisch	Projektarbeit/project work
					Ex	2	New technologies in neurorehabilitation and motor learning - practical project		
					L	1	New technologies in neurorehabilitation and motor learning - lecture		
SG860024	5	Football Analytics Hackathon	Link	E	Ex	4	Football Analytics Hackathon exercise	englisch	Projektarbeit/ project work: report, presentation
SG861014	5	Molecular Exercise Physiology	Wackerhage	E	L	1	Evidence-informed practice lecture	englisch	Projektarbeit/projekt work
					Se	3	Evidence-informed practice seminar		
4th semester									
SG862000	30	Master's Thesis	Franklin	R				deutsch/englisch	SL: Präsentation/presentation wiss. Ausarbeitung/research paper