Module Manual

Master of Science

Sport Science for Health

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Table of Content

Qualification aims of the study program	C
Module Descriptions	1
Module 1: Research Methods	1
Module 2: Topics and theoretical fields in Sports Science for Health	5
Module 3: In-depth study of current research fields in Sports Science for Health	8
Module 4: Discussing and debating about sport-scientific research	10
Module 5: Research Project I	13
Module 6: Research Project II	14
Module 7: Internship	15
Module 8: Master Thesis	16

Qualification aims of the study program

Noncommunicable diseases (NCD) are responsible for up to 70% of deaths worldwide. Physical inactivity and inadequate physical fitness are major risk factors for NCD's. With its various subdisciplines, Sport Science is ideally positioned to address physiological, psychological, and sociological barriers to effective, regular, and healthy sports and exercise. Consequently, Sport Science can make a crucial contribution to the global efforts aimed at improving individual and public health. The **Master of Science program "Sport Science for Health"** is designed to help students acquire the skills and knowledge that are required to do so. Specifically, the M.Sc. Sport Science for Health provides a

- comprehensive (from basic research to real-life applications)
- <u>multidiscipline</u> (e.g., Training & Movement Science, Sport Psychology, Social and Health Science)
- <u>multi-methods</u> (e.g., neuroscience, exercise physiology, neuromechanics, and psychometrics)

approach to Sport Science that allows students to specialize in their area of interest.

The objective of this program is to put graduates in an ideal position to pursue further post-graduate studies and/or to enter the job market straight away. Prototypical areas to work in with a M.Sc. in Sport Science for Health are the healthcare sector, government institutions, associations, or Olympic training centers. Representative positions are for example consultant, researcher, coach or project manager.

Module Descriptions

Module 1: Research Methods

Study Program					
M.Sc. Sport Science for Health					
Credits	16	Duration 2 Semester Module's contribution to the final 15%			
				grade	
Module g	Module grade Examinations in Unit 1.2 und 1.3				
Module u	ınits	1.1 Literatu	re Research, Prese	nting & Publishing; 1.2 Advanced Rese	arch
		Methods I;	1.3 Advanced Rese	earch Methods II; 1.4 Data Analysis	
Qualifica	tion aims	evaluate and sale and	Id produce scientification and produce search result anage search result alified to write and pasters, presentations ampetent at processiplying the statistical ience for Health.	the research methods necessary to come work. Specifically, they are eve academic information (e.g., journal is and process them. Peresent academic work (term papers, parts) on a M.Sc. level. Ing, analyzing, and presenting quantitated methods that are relevant for research the standard research methods and precedent contents.	articles), apers, ive data by in Sport

Module unit: 1.1 Literature Research, Presenting & Publishing		
Lecturer	Dr. Julia Everke, Dr. Stefanie Everke-Buchanan, Alexander Baetz	
Teaching content	In this unit, students will become proficient at researching literature, presenting scientific findings, and writing academic reports/theses/papers.	
	To become proficient at researching literature, students get to know the services of the university library. Topics are: library and database handling; research strategies; interlibrary loan; online research in databases (SPORTDiscus, PubMed, PsycINFO etc.); open access; institutional repository; bibliographic management (Citavi, Endnote, etc.); web services: (Internet Archives; e-journals); alerts To become proficient in the presenting and writing of research findings , students will learn & practice techniques for presenting and	

	publishing scientific information. Contents are: Learn and apply the rules for academic work; develop and write a paper on a topic within Sport Science for Health according to the conventions of the discipline (structure, methods and formatting); conduct literature research; utilize office software for scientific application; learn how to create a presentation.
Forms of Teaching	Seminar
Amount of SWS	2
Credits	3
Course completion	ungraded
Prerequisites	None
Language	English
Time slot and frequency of the module	Winter Semester
Recommended Semester	1.
Compulsory / Compulsory Optional	Compulsory
Subject	
	d Research Methods I
Subject	d Research Methods I Dr. Wanja Wolff
Subject Module Unit: 1.2 Advance	
Subject Module Unit: 1.2 Advanced Lecturer	Dr. Wanja Wolff
Subject Module Unit: 1.2 Advanced Lecturer	Dr. Wanja Wolff In this unit, students will become proficient in the statistical
Subject Module Unit: 1.2 Advanced Lecturer	In this unit, students will become proficient in the statistical analyses that are most important in Sport Science for Health. Statistics are the "grammar of science" (Pearson, 1892). Being competent in selecting, conducting, interpreting, and communicating statistical analyses is crucial. Here, the statistical tests that are most frequently used in sport science will be refreshed (e.g., testing differences between groups, testing relationship between variables) and their application will be discussed. In addition, more advanced statistical techniques and recent trends in data analysis will be explained and
Module Unit: 1.2 Advanced Lecturer Teaching content	In this unit, students will become proficient in the statistical analyses that are most important in Sport Science for Health. Statistics are the "grammar of science" (Pearson, 1892). Being competent in selecting, conducting, interpreting, and communicating statistical analyses is crucial. Here, the statistical tests that are most frequently used in sport science will be refreshed (e.g., testing differences between groups, testing relationship between variables) and their application will be discussed. In addition, more advanced statistical techniques and recent trends in data analysis will be explained and discussed.
Module Unit: 1.2 Advanced Lecturer Teaching content Forms of Teaching	In this unit, students will become proficient in the statistical analyses that are most important in Sport Science for Health. Statistics are the "grammar of science" (Pearson, 1892). Being competent in selecting, conducting, interpreting, and communicating statistical analyses is crucial. Here, the statistical tests that are most frequently used in sport science will be refreshed (e.g., testing differences between groups, testing relationship between variables) and their application will be discussed. In addition, more advanced statistical techniques and recent trends in data analysis will be explained and discussed. Seminar
Subject Module Unit: 1.2 Advanced Lecturer Teaching content Forms of Teaching Amount of SWS	Dr. Wanja Wolff In this unit, students will become proficient in the statistical analyses that are most important in Sport Science for Health. Statistics are the "grammar of science" (Pearson, 1892). Being competent in selecting, conducting, interpreting, and communicating statistical analyses is crucial. Here, the statistical tests that are most frequently used in sport science will be refreshed (e.g., testing differences between groups, testing relationship between variables) and their application will be discussed. In addition, more advanced statistical techniques and recent trends in data analysis will be explained and discussed. Seminar
Module Unit: 1.2 Advanced Lecturer Teaching content Forms of Teaching Amount of SWS Credits	In this unit, students will become proficient in the statistical analyses that are most important in Sport Science for Health. Statistics are the "grammar of science" (Pearson, 1892). Being competent in selecting, conducting, interpreting, and communicating statistical analyses is crucial. Here, the statistical tests that are most frequently used in sport science will be refreshed (e.g., testing differences between groups, testing relationship between variables) and their application will be discussed. In addition, more advanced statistical techniques and recent trends in data analysis will be explained and discussed. Seminar

Time slot and frequency	Winter Semester
of the module	William Comestor
Recommended Semester	1.
Compulsory / Compulsory Optional Subject	Compulsory
Module Unit: 1.3 Advance	d Research Methods II
Lecturer	Dr. Lorenz Assländer & Dr. Wanja Wolff
Teaching content	In this unit, students will become proficient in using the key
	research methods and technologies that are most important in
	Sport Science for Health.
	Sport Science is an inherently interdisciplinary endeavor and this is
	reflected in the heterogeneity of research methods that sport science
	researchers employ. For aspiring sport scientists it is therefore crucial to
	be familiar with this diversity of methods and applications. Thus, here, the
	methods and tools that are frequently used in Sport Science for Health will be discussed with respect to their theoretical background and they
	will be demonstrated and practiced in applied lab and/or life settings.
	Methods, students will get familiar with come from a wide range of areas,
	such as neuroscience, biomechanics, physiology, and psychology. To
	facilitate a comprehensive understanding of these methods and tools, an
	additional focus will be on analyzing, interpreting, and presenting the
	results that are obtained with these measures.
Forms of Teaching	Seminar including hands on sessions
Amount of SWS	2
Credits	5
Course completion	Graded
Prerequisites	None
Language	English
Time slot and frequency of the module	Summer Semester
Recommended Semester	2.
Compulsory /	
Compulsory Optional	Compulsory
Subject	
Module Unit: 1.4 Data Ana	lysis
Lecturer	Dr. Maik Bieleke

Teaching content	In this unit, students will become proficient in pre-processing, post-
	processing, analyzing, and visualization of quantitative data.
	Advanced data analyses skills have become increasingly important for
	researchers in recent years. The advent of more powerful statistical
	methods (some of which are discussed in 1.2) and research technologies
	(some of which the students have experienced in 1.3) calls for a more
	comprehensive approach to data analyses. This starts with pre-
	processing of intensive data (e.g., filtering, artifact correction), post-
	processing (e.g., calculating variables of interest for further statistical
	analysis), analysis and visualization (e.g., presenting raw data along with
	aggregate scores in one Figure). Thus, here, students will acquire
	advanced data analysis skills using specialized software, thereby
	complementing the theoretical knowledge students have acquired in 1.2
	and 1.3.
Forms of Teaching	Seminar
Amount of SWS	2
Credits	3
Course completion	Ungraded
Prerequisites	None
Language	English
Time slot and frequency	Summer Semester
of the module	Summer Semester
Recommended Semester	2.
Compulsory /	
Compulsory Optional	Compulsory
Subject	

Module 2: Topics and theoretical fields in Sports Science for Health

Study Program					
M.Sc. Sport Science for Health					
Credits	12	Duration 1 Semester Module's contribution to the final 11%			
				grade	
Module g	dule grade Examinations in Unit 2.1, 2.2 and 2.3.				
Module u	ınits	2.1 Physical Performance, Training and Health; 2.2 Public Health; 2.3 Exercise			Exercise
		Psychology	& Health		
Qualifica	tion aims	This module will provide a comprehensive foundation that will put students in a			
		position to a	adopt and employ a	truly multidisciplinary approach to Spor	rt Science
for Health. Thus, here, students develop the fundamentals that enable their			their		
specialization in subsequent modules. The lectures will provide this foundate			undation by		
	approaching Sport Science for Health from three different disciplinary angles t			angles to	
	highlight the multidisciplinary nature of Sport Science: Through the lens of hea			s of health,	
	lectures will focus on Training & Movement Science, Sport and Exercise			se	
	Psychology, and Public Health. After this module, the students know the			the	
 theories & concepts that shaped – and are currently shaping – the 			- the field.		
seminal studies and findings that have advanced the field.					
		■ mo	st relevant applicati	ons that have brought findings from bas	sic science
from "lab to life".					
		■ Mo	st salient and press	ing open questions and promising future	e research
	trends in the field.				

Module unit: 2.1 Physical Performance, Training and Health		
Lecturer	Prof. Dr. Markus Gruber	
Teaching content	In this unit, students learn about the benefits of physical activity	
	and exercise in the prevention and treatment of multiple health	
	conditions, diseases and their associated risk factors.	
	The first part of the lecture covers the theories of training and testing	
	based on the fundamental concepts of human physiology. The second	
	part deals with health screening, pre-exercise evaluation, health related	
	fitness testing and clinical exercise testing methods. The third part co	
	exercise prescription for healthy populations, for individuals at risk and	
	for patients with chronic diseases and health conditions. After the lecture	
	the students can explain the physiological prerequisites of aerobic,	
	anaerobic, balance and flexibility performance. They are able to describe	
	the state-of-the-art testing procedures and diagnostic tools to determine	

	physical performance and health-related physical fitness in the above- mentioned dimensions and populations. They are aware of the literature and can explain important and recent findings in the field of training and testing with a special focus on health-related aspects of physical activity and exercise.
Forms of Teaching	Lecture
Amount of SWS	2
Credits	4
Course completion	Graded
Prerequisites	None
Language	English
Time slot and frequency of the module	Winter Semester
Recommended Semester	1.
Compulsory / Compulsory Optional Subject	Compulsory
Module Unit: 2.2 Public He	ealth
Lecturer	Prof. Dr. Martina Kanning
	9
Teaching content	In this unit, students learn to approach health from a macro
Teaching content	In this unit, students learn to approach health from a macro perspective, that highlights the importance of conceiving and
Teaching content	
Teaching content	perspective, that highlights the importance of conceiving and tackling exercise and health behavior not only on an individual level but also from a scalable public health point of view.
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Course completion	Graded
Prerequisites	None
Language	English
Time slot and frequency of the module	Winter Semester
Recommended Semester	1.
Compulsory / Compulsory Optional Subject	Compulsory
Module Unit: 2.3 Exercise	Psychology & Health
Lecturer	Prof. Dr. Julia Schüler
Teaching content	In this unit, students learn about theories of physical activity and exercise. The focus is on health behavior change (promoting
	physical activity) and interventions that support it. Other topics include self-regulation of physical activity, sport and mental well-being (emotional well-being, anxiety, depression, self-esteem, cognitive functioning), sport and stress, and personal and social health resources.
Forms of Teaching	Lecture
Amount of SWS	2
Credits	4
Course completion	Graded
Prerequisites	None
Language	English
Time slot and frequency of the module	Winter Semester
Recommended Semester	1.
Compulsory / Compulsory Optional Subject	Compulsory

Module 3: In-depth study of current research fields in Sports Science for Health

Study Program						
M.Sc. Sport Science for Health						
Credits	12	Duration	Duration 2 Semester Module's contribution to the final 11%			
				grade		
Module g	grade	Examination in Unit 3.3				
Module u	ınits	3.1 Advanced Seminar I; 3.2 Advanced Seminar II				
Qualification aims Building on Module 2, the students will dive deeper into specific topics		ics that are				
relevant and current for Sport Science for Health. In specialized seminars		rs, students				
	will develop in-depth expertise by reading, discussing and presenting theories			heories and		
		findings that pertain to the topic of the seminar. Thus, while Module 2 offers a broad				
		foundation, Module 3 is much narrower and has the goal to allow students acquire				
		expertise in topics of their interest. To pass the module, two seminars (from two				
		different dis	different disciplines, as per the differentiation of the disciplines introduced in			
		Module 2) h	Module 2) have to be completed.			

Module unit: 3.1 Advanced Seminar I			
Lecturer	Lectures will rotate between different experts from the three groups of		
	the Konstanz Sport Science Department.		
Teaching content	In this unit, students will acquire in-depth knowledge of a specific		
	research topic from Sport Science for Health.		
	Typically, the seminar will be on a topic where the Konstanz group is		
	actively pursuing research and the lecturer will be the "resident expert" in		
	this field. This will allow students to expand on the fundamentals		
	acquired in module 2 and become an expert regarding the state-of-the-		
	art in a clearly defined research field. In doing so, this unit can also		
	function as a preparatory segue way into potential topics for subsequent		
	Project Seminars and the Master Thesis.		
Forms of Teaching	Seminar		
Amount of SWS	2		
Credits	6		
Course completion	Graded		
Prerequisites	None		
Language	English		

Time slot and frequency of the module	Winter Semester			
Recommended Semester	1.			
Compulsory/compulsory elective	Compulsory			
Module Unit: 3.2 Advanced	d Seminar II			
Lecturer	Lectures will rotate between different experts from the three groups of the Konstanz Sport Science Department.			
Teaching content	In this unit, students will acquire in-depth knowledge of a specific			
	research topic from Sport Science for Health.			
	Typically, the seminar will be on a topic where the Konstanz group is actively pursuing research and the lecturer will be the resident expert in this field. This will allow students to expand on the fundamentals acquired in module 2 and become an expert regarding the state-of-theart in a clearly defined research field. In doing so, this unit can also function as a preparatory segue way into potential topics for subsequent Project Seminars and the Master Thesis.			
Forms of Teaching	Seminar			
Amount of SWS	2			
Credits	6			
Course completion	Graded			
Prerequisites	None			
Language	English			
Time slot and frequency of the module	Summer Semester			
Recommended Semester	2.			
Compulsory / Compulsory Optional Subject	Compulsory			

Module 4: Discussing and debating about sport-scientific research

Study Program						
M.Sc. Sport Science for Health						
Credits	14	Duration	4 Semester	Module's contribution to the final	11%	
				grade		
Module g	rade	Examination	n in Unit 4.3			
Module u	ınits	4.1 Current	Research in Sport	Science for Health; 4.2 Journal Club; 4.	.3	
		Research V	Vorkshop, 4.4 Collo	quium		
Qualifica	tion aims	Sport Scien	ce for Health is a d	ynamic and ever-changing scientific fiel	d. To	
become an expert in this diverse field, one needs to keep up					ith current	
topics, to critically discuss extant and emerging research, and to use this						
knowledge to plan and design experiments and studies that are timely, so					, sound,	
and relevant. This module will equip students with these skills. Specifica					cally,	
		students wi	II			
		atte	end academic talks,	where experts on current topics in Spo	rt Science	
		for Health will present their work and are available for discussion.				
		 read and critically analyze & discuss current papers. 				
		 develop and present their own ideas for research in Sport Science for 			ence for	
	Health					

Module unit: 4.1 Current Scientific Research in Sport Science					
Lecturer	Dr. Wanja Wolff				
Teaching content	In this unit, students will experience the diversity and depth of current research in Sport Science for Health by attending high-level and in-depth presentations from experts of the Konstanz Sport Science group, as well as from external speakers. To best prepare for the invited talks, students will read selected scientific articles on the speakers' topic prior to attending the talk.				
Forms of Teaching	Lecture				
Amount of SWS	1				
Credits	2				
Course completion	Ungraded				
Prerequisites	None				
Language	English				

Time slot and frequency of the module	Winter Semester				
Recommended Semester	1.				
Compulsory / Compulsory Optional Subject	Compulsory				
Module unit: 4.2 Journal C	lub				
Lecturer	Prof. Dr. Markus Gruber				
Teaching content	In this unit, students will discuss and critically evaluate recent				
	scientific contributions to Sport Science for Health.				
	The papers presented and discussed in the Journal Club will range from original articles, to reviews and research reports on important topics in Sports Science for Health. Here, the students will develop and hone their skills in efficiently reading scientific articles, and in extracting the important knowledge and conclusions.				
Forms of Teaching	Seminar				
Amount of SWS	2				
Credits	4				
Examination/Unit completion	Unit completion				
Prerequisites	None				
Language	English				
Time slot and frequency of the module	Summer Semester				
Recommended Semester	2.				
Compulsory Optional Subject	Compulsory				
Module unit: 4.3 Research	Workshop				
Lecturer	Prof. Dr. Markus Gruber				
Teaching content	In this unit, students will further develop their reading skills and				
	develop and practice additional skills that enable them to structure				
	their own ideas towards the development of a new research project.				
	Original articles, reviews and research reports in the field of sports science mainly related to human performance and health. The students are able to read scientific articles and extract the important knowledge and conclusions.				

Forms of Teaching	Seminar				
Amount of SWS	2				
Credits	6				
Examination/Unit completion	Unit completion				
Prerequisites	None				
Language	English				
Time slot and frequency of the module	Winter Semester				
Recommended Semester	3.				
Compulsory Optional Subject	Compulsory				
Module unit: 4.4 Colloquiu	ım				
Lecturer	Prof. Dr. Markus Gruber				
Teaching content	In this unit, students will present their own research and discuss their ideas and results with fellow students from all Semesters of				
	the Sport Science for Health Master program.				
	Here, the students will listen to scientific presentations and discuss the important features on the basis of their knowledge in the field. They are able to give a scientific presentation on their own and are competent at answering content-specific questions.				
Forms of Teaching	Seminar				
Amount of SWS	2				
Credits	2				
Examination/Unit completion	Unit completion				
Prerequisites	None				
Language	English				
Time slot and frequency of the module	Winter and Summer Semester				
Recommended Semester	14.				
Compulsory Optional Subject	Compulsory				

Module 5: Research Project I

Study Pro	Study Program						
	M.Sc. Sport Science for Health						
Credits	12	Duration	1 Semester	Module's contribution to the final grade	11%		
Module g	rade	Examination	n				
Qualifica	tion aims	In this mod	lule, <u>students will</u>	be able to utilize the skills and knowl	edge they		
		have acqui	red in the prior m	odules and be a vital part of real rese	<u>arch</u>		
		project.					
			•	tudy in a small team and under close su	•		
				ecting and processing of scientific data,	displaying		
		-	nd discussion of re	•			
Lecturer		Varying res	earchers from the h	Konstanz Sport Science group			
Teaching	content			team and take personal responsibilit	y for a		
		specific pa	rt of the project.				
		They conduct a research project in a small group and conduct a study, collect					
				results and discuss the implications in ar	า		
		appropriate	way.				
	Forms of Seminar						
Teaching	•						
Amount	of SWS	4					
Examinat completion		Examination					
Prerequis	sites	None					
Languag	e	English					
Time slot	and						
frequenc	y of the	Summer Semester					
module							
Recommondaria Semester		2.					
Compuls	ory /						
Compuls	Compulsory Compulsory						
Optional	Subject	ject					

Module 6: Research Project II

Study Programme							
M.Sc. Spo	M.Sc. Sport Science for Health						
Credits	12	Duration	1 Semester	Module's contribution to the final	11%		
				grade			
Module g	ırade	Examination	า				
Qualifica	tion aims	This modu	le directly builds	on the prior module, and students wil	l take an		
		even deepe	er diver into ever	thing that goes into a successful research	<u>earch</u>		
		project, the	ereby fine-tuning	the skills they have honed in the prev	ious		
		module.					
		After this me	odule, students ha	ve learned to conduct a study on their ov	vn under		
		supervision	. They can collect	and process scientific data, use appropri	ate		
		statistics, di	splay the results a	nd discuss the results within a report in r	elation		
		with the cor	ntemporary literatu	re.			
Lecturer		Varying res	earchers from the	Konstanz Sport Science group			
Teaching	content	The studen	nts conduct a sma	all research project on their own.			
		Together with the lecturer, they develop a research aim and a hypothesis for a					
		study. They set up a research design and propose a methodological framework.					
After presentation and feedback from the sup			ck from the supervisor they perform the s	study or			
part of the study, collect and process data, use appropriate statistics, dis				lisplay the			
		results and discuss the results in relation to the contemporary literature.					
Forms of	•	Seminar					
Teaching	l	Ociminal					
Amount o	of SWS	4					
Examinat		Examination					
completion	on						
Prerequis	sites	None					
Language	е	English					
Time slot	and						
frequenc	y of the	Winter Semester					
module	ıle						
Recommended 3.							
Semester							
Compuls	pulsory /						
Compuls	•	Compulsory	/				
Optional Subject							

Module 7: Internship

Study Pro	ogram						
M.Sc. Sport Science for Health							
Credits	12	Duration	2 months	Module's contribution to the final grade	0%		
Module g	rade	Written repo	ort	1	<u> </u>		
Qualification aims		The students can apply their theoretical and methodological knowledge. They get into contact with workplaces or research institutions potentially important for their future career.					
Lecturer		The internsl	•	a self-reliant fashion and in consultation	with the		
Teaching	content	The studer	nts work together	with e.g. a company, a clinic or anoth	er		
		university	on a topic that is I	relevant for Sport Science for Health.			
		Here, students find applications for their theoretical and methodological					
		knowledge. They get into contact with workplaces or research institutions					
potentially important for their future career.							
Forms of Internship							
Amount (of SWS	The volume	of work is defined	in consultation with the partner of the in	ternship		
Course Ungraded (written internship report)							
Prerequis	sites	None					
Languag	е	English					
Time slot and frequency of the module Winter Semester							
Recomm Semeste		3.					
Compuls Compuls Optional	ory	Compulsory					

Module 8: Master Thesis

Study Program							
M.Sc. Sport Science for Health							
Credits	Credits 30 Duration 4 months Module's contribution to the final 30%						
				grade			
Qualification aims The student showcases his/her ability to do scientific research within the given 6					ne given 6		
		months. The supervised research work is supposed to be on a scientific level that					
		should be fit for subsequent publication in a peer-reviewed journal.					