Regulations for the International Master's / Doctoral Program in Clinical Exercise Science (CES) at the Faculty of Human Sciences at the University of Potsdam

Dated February 15, 2017

The Faculty Council of the Human Sciences Faculty at the University of Potsdam has approved on February 15, 2017, the following study and examination regulations, on the basis of Section 19 subsections 1 and 2, Section 22 subsection 2 no. 2 of the Brandenburg Higher Education Act of April 28, 2014 (Law and Ordinance Gazette (GVBl.) I/14, [no. 18]), last amended by Article 2 of the law of July 1, 2015 (GVBl. I/15 [no. 18]) in combination with the Ordinance on the Design of Examination Regulations to Guarantee the Equivalency of Studies, Examinations, and Degrees (University Examination Ordinance - HSPV) of March 4, 2015 (GVB1. II/15 [no. 12]) and with Article 21 subsection 2 no. 1 of the Basic Constitution of the University of Potsdam (GrundO) of December 17, 2009 (Bulletin UP no. 4/2010 p. 60) in the Third Amended Version of the Basic Constitution of the University of Potsdam (GrundO) of April 22, 2015 (Bulletin UP no. 6/2015 p. 235) and Section 1 subsection 2 of the new version of the General Admission Regulations for Master's Degree Programs at the University of Potsdam not related to teacher education of January 30, 2013 (BAMA-O) (Bulletin UP no. 3/2013, p. 35), last amended on February 15, 2016 (Bulletin UP 7/2016, p. 560)¹:

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§ 1 Applicability

- (1) These regulations apply to the master's degree in *Clinical Exercise Science* at the University of Potsdam. These subject-specific regulations supplement the master's regulations in the new version of the General Regulations for Study and Examinations for Bachelor's and Master's Degrees (not for teachers in training) at the University of Potsdam (BAMA-O). In the event that these regulations contradict the BAMA-O, then the provisions in the BAMA-O supersede these regulations.
- (2) These regulations also apply to the Ph.D. program in *Clinical Exercise Science* at the University of Potsdam. The provisions related to the doctoral program supplement the regulations for a doctoral degree at the Faculty of Human Sciences at the University of Potsdam dated May 15, 2013, and govern the content, structure and examinations of the integrated International Master's and Doctoral Program in Clinical Exercise Science (CES).

§ 2 Program Objectives

(1) The program's objective is to continue professional preparation, in a manner oriented towards clinical experience and research, for leading scholarly activities in the application of physical activity in sports and medicine with a focus on prevention and rehabilitation. Distinctions are drawn between clinical applications with patients and applications in fitness and exercise, recreational sports and elite sports. In the process, program participants deepen and expand the knowledge, skills and facilities gained in a previous bachelor's degree or other degree program in a relevant field. This includes the theoretical, methodological and experimental foundations for scientific work, and promotes the ability to work in fields related to research and teaching.

§ 3 Structure and Duration of the Program

- (1) The master's / doctoral program is divided into two segments: a two-year research-oriented master's degree (first to fourth semester) and a doctoral program.
- (2) The master's program in Clinical Exercise Science is offered at the University of Potsdam as a

¹Approved by the President of the University of Potsdam on March 28, 2017.

single-discipline program with a standard period of study (full-time) of 4 semesters and 120 credit points (CP).

(3) Doctoral studies in Clinical Exercise Science can follow directly after the master's degree and can be completed within 8 semesters, including the time spent on the master's degree, and a total of 240 credit points

§ 4 Part-time Studies

The master's / doctoral program in Clinical Exercise Science is not suited for part-time studies.

§ 5 Examining Board

- (1) The Faculty of Human Sciences has established a Clinical Exercise Science (CES) Examining Board to organize and supervise teaching and examinations.
- (2) The Board consists of five members: three members taken from among the university instructors; a member of the postdoctoral research team; and a member from the ranks of the program participants, who is chosen from the master's or doctoral program depending on the topics that will have to be dealt with.
- (3) The Examining Board makes decisions about such issues as the selection of applicants for the master's phase and for the doctoral phase.
- (4) The Examining Board coordinates student advising, in which university instructors also participate.
- (5) Six months after beginning the second phase of the doctoral program, at the latest, the Examining Board shall appoint, after consultation with the doctoral student, a supervisor who holds a Habilitation or its equivalent, along with at least one additional university instructor from the program, to supervise the doctoral project. In justified cases, this work can be done under the supervision of two university instructors from outside the University of Potsdam.
- (6) The Examining Board ensures the conduct of examinations. The members of the Board have the right to participate as observers in the examination.

§ 6 Repeating Examinations

In order to repeat an examination that is directly affiliated with a specific course requires taking the course again and participating in the course.

§ 7 Modules and the Course of the Master's Program Master's Degree Program

(1) The master's degree in Clinical Exercise Science is comprised of the following components:

Master's Do	Master's Degree				
Module	Name of Module	CP			
Abbrevia-					
tion					
I. Mandatory	y modules (90 CP)				
BM-SME	Basic Module: Scientific	12			
	Methods & Evaluation				
BM-EPR	Basic Module: Exercise in	12			
	Prevention and Rehabilitation				
BM-AS	Basic Module: Applied Sci-	12			
	ence				
AM-SME	Advanced Module	12			
	Scientific Methods and Evalu-				
	ation				
AM-EPR	Advanced Module: Exercise	12			
	in Prevention and Rehabilita-				
	tion				
BM-SK	Basic Module: Scientific	12			
	Skills				
AM-AS	Advanced Module: Applied	18			
	Science				
II. Master's	Thesis	30			
Total		120			

- (2) The language of instruction in the Clinical Exercise Science program is English.
- (3) The descriptions of the modules named in Article 1 are provided in Appendix 1: Module Catalog for the Master's Program and are appended to these Regulations.
- (4) Sample degree progress plans for the master's degree are provided in Appendix 3A of these regulations.

§ 8 Master's Thesis

- (1) As soon as the student has completed at least 72 credit points, he or she must immediately propose a topic for his/her master's thesis.
- (2) The master's thesis, including the oral defense, is equivalent to 30 credit points.
- (3) The master's thesis is written in English; this is a departure from Section 30 subsection 12 of BAMA-O.
- (4) After consultation with the Examining Board, students can choose to submit a scholarly manuscript for publication at a peer-reviewed journal

instead of preparing a master's thesis. The manuscript must be submitted within the program's timeframe at the University of Potsdam. Acceptance of the manuscript for publication in a scientific journal is not required.

- (5) The master's thesis is scholarly work performed in the context of an independent project under the supervision of a university instructor in the master's / doctoral program. The master's thesis must include an appendix with a brief summary in German.
- (6) Students can complete experimental parts of the master's thesis at an external institution upon approval from the Examining Board. The Examining Board ensures that the partnering institution offers appropriate supervision for the program participant.

§ 9 Master's Degree

The Faculty of Human Sciences at the University of Potsdam awards the degree of "Master of Science" ("M.Sc.") to students who have completed the necessary credit points and graduation requirements.

§ 10 Admission to the Doctoral Phase

- (1) Both students from the master's program of the International Master's / Ph.D. program in CES, as well as graduates from the master's program of the International Master's / Ph.D. program in CES, can be admitted to the doctoral phase. Furthermore, it is also possible for external applicants to be admitted to doctoral studies (see subsection 5).
- (2) Students in the master's degree program in the International Master's / Ph.D. program in CES can apply in the re-registration period in the third semester to switch in the fourth semester to the doctoral program. Such applicants must fulfill the following requirements:
- a) proof of completion of the mandatory modules of Section 8 (72 credit points),
- b) proof of registration for the other modules (18 CP),
- registration of the master's thesis under Section 30 of the BAMA-O by the end of the third semester,
- d) very good or good grades (an average grade point average of B or 2.3) in previous studies²2
- e) Academic aptitude

cation.

² Students in the master's degree program, in the context of the international master's / Ph.D. program in CES, who have earned an average module grade below B (or higher than 2.3) in the first joint program segment, will typically receive a recommendation to continue the master's program (second segment). The Examining Board shall render decisions about exceptions upon appli-

interested students (in the middle of the third semester) regarding the assessment of academic aptitude in accordance with subsection 2. The objective of these discussions is to evaluate the student's motivation to perform research work as well as their foundational knowledge of scientific methodologies that are indispensable for the field. A possible research subject for a dissertation will be determined. On the basis of the orientation discussion and academic performance thus far, a recommendation for admission to the doctoral program will be made to the Examining Board.

(3) Orientation discussions will be conducted with

- (4) In the event that a student switches to the doctoral program, the mandatory modules completed in the master's degree program (90 CP) will be applied to the doctoral program. The switch into the doctoral program does not affect the announcement of the master's thesis. When this switch is made, the master's thesis contents identified in Section 8 must be replaced by a publication that has been submitted to a peer-reviewed scholarly journal and that lists the candidate as the primary author (Section 8 subsection 4). Otherwise, Section 30 of the BAMA-O applies. Under Section 8, after the master's thesis is accepted, and the oral defense passed, Section 9 applies accordingly. If the master's thesis is not accepted, it is only possible to repeat the master's thesis under Section 30 of the BAMA-O if the student switches from the doctoral program back to the master's degree program. In such cases, a transition back to the doctoral program is prohibited.
- (5) Graduates from the master's degree program in the International Master's / Ph.D. program in CES, and external applicants, can be admitted directly to the doctoral program if they meet the following requirements:
- a) Completion of a university degree in a subject related to prevention and rehabilitation in sports and medicine, or related fields under Section 3 (a) of the subject-specific admission regulations; the degree must have been completed within the standard time for completing a degree program (at least four years), with a degree higher than a bachelor's degree, with very good or good grades (at least B or 2.3). At least half of the credit points completed must be related to scientific methods and clinical exercise science.
- b) English-language skills under Section 3 (b) of the subject-specific admission regulations for master's studies in the International Master's / Ph.D. program in Clinical Exercise Science.
- A positive result from the orientation discussion.
- (6) The conclusion of a doctoral studies agreement between a professor and an applicant is a requirement for being admitted directly to the Ph.D. pro-

gram. The specifics are governed by the applicable regulations for a doctoral degree.

§ 11 Module and Course of Studies in the Doctoral Phase

(1) The doctoral phase of the Clinical Exercise Science program is comprised of the following components, taking into account work already completed in the master's program:

Doctoral Phase				
Module Abbrevia- tion	Name of Module	СР		
I Mandatory credit points)	Modules, 4th - 8th semes	ter (70		
QM-SW	Qualification Module: Scientific Writing	30		
VM-AS	Advanced Module: Applied Science I	20		
WM-SQ	Science Module: Scientific Qualification	20		
W 751	10.15.6	o o di		
II. Dissertation	80*			
Total CP for	70			
completed dur	ring the 4th to 8th semes-			
ters				

^{*} The master's thesis completed under Section 11 subsection 3 (30 CP)

is included in the 80 CP total.

- (2) The language of instruction in the Clinical Exercise Science doctoral program is English.
- (3) The descriptions of the modules named in subsection 1 are given in the Module Catalog in Appendix 2 of these Regulations.
- (4) Sample degree progress plans for the doctoral phase are provided in Appendix 3 b) of these Regulations.
- (5) This phase should be completed within three years.

§ 12 Dissertation

- (1) 80 credit points will be awarded for the empirical work completed for the dissertation.
- (2) The dissertation must be written in English. The dissertation must include an appendix with a brief summary in German.
- (3) The dissertation can be composed as a monograph or as a publication-based dissertation.
- (4) Section 7 subsection 4 of the regulations for a doctoral degree at the Faculty of Human Sciences

applies for a publication-based dissertation. In addition, this form of dissertation requires a collection of at least three scholarly publications that have been accepted for publication at peer-reviewed professional journals. The doctoral candidate must appear as the lead author for these publications. This form of a doctoral degree requires the submission of a summary of the subject treated in these publications, and a general discussion, to the Examining Board. Upon submission, the student affirms that the work was completed independently, that no other sources or aids were used, other than those identified in the texts, and that the rules for scholarly practice were followed. The master's thesis completed under Section 12 subsection 3 (30 CP) is considered as one of the three scholarly publications.

- (4) The Examining Board appoints three professors or qualified instructors as expert reviewers, including the supervisor of the student's work as well as at least one external reviewer who is not employed by the University of Potsdam. The evaluations must recommend, with explanation, the acceptance or rejection of the dissertation. In the event of acceptance, they will recommend a grade:
- A (*summa cum laude*): An excellent dissertation,
- B (magna cum laude): A very good dissertation.
- C (cum laude): A good dissertation,
- D (*rite*): A sufficient dissertation,
- F (*non sufficit*): An unsatisfactory dissertation that does not qualify for an oral defense.
- (5) The dissertation defense is typically held in English. The dissertation defense is public. The defense is graded with the following designations:
- A (*summa cum laude*): An excellent dissertation defense,
- B (*magna cum laude*): A very good dissertation defense,
- C (cum laude): A good dissertation defense,
- D (*rite*): A sufficient dissertation defense.
- F (*non sufficit*): An unsatisfactory performance that does not qualify as an oral defense.

§ 13 Oral Defense

The oral defense in which students defend their dissertation is evaluated by an Examination Committee that is comprised of the Examining Board, the dissertation supervisor, and additional supervisors. If the Committee does not have a chairperson, then the chairperson of the Examining Board assumes the chair of the Examination Committee. If the chairperson of the Examining Board is also the primary dissertation supervisor, then the deputy chairperson shall assume the functions of the chairperson.

§ 14 Overall Grade, Degree, Doctoral Studies and Certificate

(1) The overall grade for the Ph.D. is comprised at a 2:1 ratio, of the evaluation of the dissertation and the oral examination, respectively.

(2) After

- Acquisition of credit points under Section 12 (at least 150 CP in the doctoral phase of the program),
- acceptance of the dissertation by the Examining Board,
- a successful oral defense, and publication of the dissertation

the Faculty of Human Sciences shall award the university degree, "Doctor of Philosophy" (abbreviated as "Ph.D.").

- (3) The doctoral degree certificate is issued by the office of the president of the University of Potsdam and the dean of the Faculty of Human Sciences with the date of the oral defense in accordance with the regulations of the Faculty's currently applicable regulations for a doctoral degree.
- (4) Candidates cannot use the title of "Doktor" before the certificate has been handed over.
- (5) Participants who have not successfully completed the second phase of the dissertation, or who do not want to complete the doctoral degree, receive a Transcript of Records that documents the achievements they have completed. By switching back to the master's program, students can, upon application for recognition of achievements completed within the doctoral program, receive the title of M.Sc.

§ 15 Stay Abroad

We explicitly recommend that students complete a stay abroad during their studies. The third and/or fourth semester of the master's program are particularly well-suited for this. Otherwise, Section 16 of the BAMA-O applies. For the doctoral program, the fifth and/or sixth semester are particularly well-suited for a stay abroad.

§ 16 Application, Expiration and Transitional Provisions

- (1) These regulations go into effect on October 1, 2017.
- (2) These regulations apply to all students who enroll in the master's / Ph.D. program in CES at the University of Potsdam after these regulations go into effect.

(3) The subject-specific regulations for the master's / Ph.D. program in CES at the University of Potsdam of July 16, 2009, will become invalid on September 30, 2021. Upon application to the Examining Board, students and doctoral candidates who enrolled in the master's / Ph.D. program in CES before these regulations went into force can transfer into these regulations. Accomplishments completed during studies up to this date shall be recognized without disadvantage to the student.

Appendix 1: Module Catalog for the Master's Program

CES_BM-SME: Basic Module:	Scientific Methods	& Evaluation	Number of cred	lit points (CP): 12
Module type (mandatory or elective):	Mandatory module			
Content and objective of module:	- Study designs a - Quality criteria - Quality guideli - Basic terminolo - Quality criteria cesses) - Literature data brary) - Locating literat - Systematic literat - Literature admi - Preparation of 1 - Presentation tec	and evaluation princi- nes for scientific enquality of peridemiological for scholarly journal bases (PubMed, ISI ure (online access, in rature research nistration software literature reviews chniques, using the example of the present scholarly subur with the relevance of the period of perform independency, as well as presesubject.	iples for testing property (GLP rules, CC) and studies als (impact points, Web of Knowled terlibrary loan) tample of a literature ly plan the method jects in an appropriof basic scientific rules and basic evaluant research on the	peer-review proge, Cochrane Liger review s of scientific restate manner. They alles for the executation procedures. literature and ad-
Module examination (number, form, scope):	1 examination, 90 n	ninutes		
Independent study time (in hours):	315			
		Supplementary example 1		
Courses (type of teaching)	Contact time (in semester hours)	Course-related module examina- tion(s) (number, form, scope)		
Methods (lecture)	2	-	exam -	-
Literature & Presentation (Seminar)	2	1 Abstract 1 Presentation (20-30 minutes)	-	-
Offered:		Winter semester		
Prerequisite for taking the module	2:	None		
Teaching unit:		Sports science / med	dicine (incl. GP Spo	ort)

CES_BM-EPR: Basic Module:	Exercise in Preven	tion and Rehabilitation	Number of cred	lit points (CP):
Module type (mandatory or elective):	Mandatory module			
Content and objective of module:	 Contents Foundations and terminology in prevention and rehabilitation Significance and application of physical activity in prevention and rehabilitation Epidemiology, etiology, pathophysiology, therapy and prognosis of illnesses affecting the musculoskeletal system Epidemiology, etiology, pathophysiology, therapy and prognosis of illnesses affecting the cardiopulmonary system Methods for evaluating the performance of cardiopulmonary system (including [spiro]ergometry) Evaluation of muscular performance among healthy subjects and patients (including strength diagnostics, EMG, muscular function diagnosis) Foundations of imaging diagnostics for patients Qualitative evaluation methods (including subjective resilience, experience of pain) Objectives Participants will become familiar with the foundations of epidemiology, etiology and pathophysiology of musculoskeletal illnesses and diseases affecting the internal and sensory organs. Students will learn about concepts for using physical activity in the prevention and treatment of acute and chronic illnesses. They will master the use, assessment and appraisal of evaluation methods in diagnostics, as well as preventive and rehabilitative interventions for illnesses affecting the musculoskeletal system, the internal organs and the sensory organs. Students will have the ability to create and deliver scholarly presentations. 			
Module examination (number, form, scope):	1 examination, 90	minutes		
Independent study time (in hours):	315			
Courses (type of teaching)	Contact time (in semester hours) Supplementary exam work (number, form, scope) For completing For admission to the module exam scope) Supplementary exam work (number, form, scope) ination (number, form scope)			
Exercise Physiology I (lecture)	2	-	-	-
Test Procedures I (seminar)	2 1 Presentation (20-30 minutes)			
Offered: Prerequisite for taking the module: Teaching unit:		Winter semester None Sports science / med	dicine (incl. GP Spor	rt)

CES_BM-AS: Basic Module: A	Applied Science		Number of c	eredit points (CP): 12	
Module type (mandatory or elective):	Mandatory mod	ule			
	 Contents Work in clinical supervision projects involving patients and athletes Empirical investigations of subjects from the field of diagnostic methods and therapeutic programs in prevention and rehabilitation, with supervision Delivery of courses in the introductory study phase for bachelor's students, with supervision 				
Content and objective of module:	Objectives Participants will apply basic practical clinical abilities and skills pertaining to practical scholarly work. We will concentrate on the transfer of theoretical fundamentals into practice. Students will learn about the fundamentals of methodological, content-related and organizational principles in research and teaching. Furthermore, they will master communication language and techniques in a scholarly, clinical professional environment. They will expand their skills in the creation and presentation of scientific posters, based on their own research results. Moreover, students will learn how to write about their own research in scholarly publications.				
Module examination (number, form, scope):	Course-related n	nodule (sub-)exams a	s follows:		
Independent study time (in hours):	270				
		Supplementary ex		Course-related	
Courses (type of teaching)	Contact time (in semester hours)	(number, form, sc For completing the module	For admission to the module exam	module examina- tion(s) (number, form, scope)	
Applied Methods Project I: (project)	4	-	-	1 Poster (max. 2000 words)	
Applied Methods Project II (project)	4	-	-	1 Project report (max. 4000 words)	
Courses: Applied Methods Proje Elective option: MTT case studi				olayer	
Offered:			Summer semester		
Prerequisite for taking the modu	ıle:		None		
Teaching unit:	Sports science /	medicine (incl. GP	Sport)		

CES_AM-SME Advanced Mod	ule: Scientific Metho	ods & Evaluation	Number of credi CP	it points (CP): 12		
Module type (mandatory or elective):	Mandatory module					
Content and objective of module:	Contents - Descriptive evaluation of data - Inferential statistics, parametric and non-parametric testing procedure - Selection of appropriate testing procedure - Presenting results in graphics, tables and text - Types of scientific articles - Organization of scientific articles - Reviews of scientific articles - Refereeing scientific articles - Refereeing scientific articles Objectives Participants will master descriptive statistical procedures and inferential-statistical parametric and non-parametric testing procedure. They will be able					
	to select appropriate testing procedures for specific questions and study d signs and to develop solution options for special statistical issues. They w be able to produce and present scholarly posters based on their own research results. They will have the ability to create and deliver scholarly presentation					
Module examination (number, form, scope):	1 examination, 90 n	ninutes				
Independent study time (in hours):	315					
	Contact time	Supplementary exam (number, form, scop		Course-related module exami-		
Courses (type of teaching)	(in semester hours)	For completing the module	For admission to the module exam	nation(s) (number, form, scope)		
Statistics (lecture)	2	1 Poster presentation (30 minutes)	-	-		
Statistics & Papers (seminar)	2 1 Presentation (20					
Offered:	Offered:			Summer semester		
Prerequisite for taking the module	2:	We recommend Module BM-SME				
Teaching unit(s):		Sports science / med	licine (incl. GP Spor	rt)		

CES_AM-EPR Advanced Mode tation	ule: Exercise in Pre	vention and Rehabili-	Number of credi	it points (CP): 12	
Module type (mandatory or	Mandatory module				
elective):	ivialidatory module				
Content and objective of module:	 Contents Epidemiology, etiology, pathophysiology, therapy and prognosis of neurological illnesses Epidemiology, etiology, pathophysiology, therapy and prognosis of illnesses affecting the internal organs and the sensory organs Validated concepts for using physical activity in the prevention of acute and chronic illnesses Evidence-based physical activity in the therapeutic treatment of acute and chronic illnesses Methods for evaluating physical performance under laboratory and field conditions Analysis and derivation of recommendations on intervention management from methods of determining physical performance Simple and complex usage of experimental methods for differential diagnosis of limits on physical robustness Quality assurance methods in preventive and therapeutic interventions Objectives The participants will familiarize themselves with the relevance of evidential bases and validation of programs for using physical activity in the prevention and treatment of acute and chronic illnesses. They will be able to assess the resilience and potential for adaption among healthy subjects and patients of various ages and different performance capacities. They will master the diagnosis-specific application of methods for evaluating physical performance. Students will expand their abilities in the context of preparing scholarly presentations. They will consolidate their presentation abilities and develop self-confidence in dealing with presenting their findings before junior scholars. 				
Module exam (number, form, scope):	1 examination, 90 i				
Independent study time (in hours):	315				
	ı	Τ.,		1 =	
Courses (type of teaching)	Contact time (number, form, scope) (in semester hours) Supplementary exam work (number, form, scope) For completing the module exam (number, form, scope) For admission to the module exam (number, scope)				
Exercise Physiology II (lecture)	2	-	-	-	
Test Procedures II (seminar)	2 1 Presentation (20-30 minutes) -				
Offered:		Summer semester			
Prerequisite for taking the module	2:	We recommend Module BM-EPR			
Teaching unit(s):		Sports science / medicine (incl. GP Sport)			
Teaching unit(s):		sports science / medicine (inci. Gr sport)			

CES_BM-SK: Basic Module: S		Number of 12 CP	of credit points (CP):		
Module type (mandatory or elective):	Mandatory module				
	Contents Discussion of the latest research, including the preparation of a literature review Critical presentation of current studies (peer-reviewed) from international journals				
Content and objective of module:	Objectives Participants will be able to rank, critically evaluate and discuss scholarly publications and current research results in the international literature. Students will expand their abilities in the context of preparing and delivering scholarly presentations. Furthermore, students will be able to summarize, in concise written form, the most important findings of their own research as well as the research of others.				
Module exam (number, form, scope):	Course-related module (sub-)exams as follows:				
Independent study time (in hours):	Journal Club: 180				
	Contact time	Supplementary ex (number, form, sc		Course-related module examina-	
Courses (type of teaching)	(in semester hours)	For completing the module	For admission to the module exam	tion(s) (number, form, scope)	
Journal Club (seminar)	6	1 Written handout	-	1 Presentation (30 minutes)	
 Presentation of scholarly public Write a literature review Moderation of a scientific dis 					
Offered:		Winter semester			
Prerequisite for taking the module	e:	None			
Teaching unit(s):		Sports science / m	nedicine (incl. GI	P Sport)	

CES_AM-AS: Advanced Modul	le: Applied Scien	ce	Number of cree	dit points (CP): 18	
Module type (mandatory or elective):	Mandatory mod	ule	·		
	projects inv - Empirical i	olving patients and at nvestigations of subje- utic programs in prev	quality assurance of chletes exts from the field of cention and rehabilitation ductory study phase	diagnostic methods	
Content and objective of module:	Objectives Participants will apply practical clinical abilities and skills pertaining to practical scholarly work, acquired through theoretical study. Focus will be trained on one hand, on the application of physical activity in medicine and sports if the context of prevention and rehabilitation among patients and athletes if fitness, recreational and elite sports. On the other hand, we will concentrate of the transfer of theoretical fundamentals into practice. Students will independently apply the fundamentals of methodological, content-related an organizational principles in research projects. Moreover, students will enhance their abilities and skills regarding the composition of scholarly publications of their own research activity, including their findings. Applied Methods "Project Work in Studies" includes the following content: Project planning, project performance and project evaluation / presentation. Elective options can also be selected.				
Module exam (number, form, scope):		module (sub-)exams a	s follows:		
Independent study time (in hours):	Applied Method	ls: 210			
	I	Cumlomantanyay	om mode	Course-related	
	Contact time	Supplementary ex (number, form, sco		module examina-	
Courses (type of teaching)	(in semester hours)	For completing the module	For admission to the module exam	tion(s) (number, form, scope)	
Applied Methods "Project Work in Studies" (project)		-	-	1 Project report (max. 4000 words)	
Elective options: - Team player - Tutor activity - Administration					
Offered:		Winter semester			
Prerequisite for taking the module	»:	BM-AS Module			
Teaching unit(s):		Sports science /	medicine (incl. GP Sp	ort)	

Appendix 2: Module Catalog for the Doctoral Program

CES_QM-SW: Qualification M	Writing	Number of credi	it points (CP): 30			
Module type (mandatory or elective):	Mandatory modu	Mandatory module				
Content and objective of mod-	cording measure - Independent	sisted statistical analys surement values during composition of origina mselves, that is fit to pro-	g projects al work, from data tha			
ule:	Objectives Participants will be able to interpret and summarize articles published in international journals and compare these findings with their own research and study results. Students will be able to analyze, properly and with the aid of statistics, data collected in studies, and summarize these findings in a manuscript fit for publication.					
Module exam (number, form, scope):	An ungraded scholarly manuscript, fit to publish, of a maximum of 5,000 words					
Independent study time (in hours):	810					
	Contact time	Supplementary exa		Course-related module exami-		
Courses (type of teaching)	(in semester hours)	For completing the module	For admission to the module exam	nation(s) (number, form, scope)		
Seminar: Publication - Data analysis / preparation - Discussion of research results - Composition of a manu- script	2	-	-	-		
Scientific Writing (seminar)	2	-	-	-		
Advanced Statistics I (seminar)	2	-	-	-		
0.00						
Offered: Prerequisite for taking the module	a,	Summer semester BM-AS Module				
Teaching unit(s):	5.	Sports science / medicine (incl. GP Sport)				

CES_VM-AS: Advanced Modu	ıle: Applied Science		Number of credi	t points (CP): 20
Module type (mandatory or elective):	Mandatory module			
	question - Evaluation of c and rehabilitati - Empirical inve	of a research group voltage of a research group voltage on stigations of subjects utic programs in preventions.	d therapeutic progra	ms in prevention
Content and objective of module:	Objectives Participants will deepen their skills and abilities in practical scholarly activities by participating in the organization and conduct of research projects. Priorities here are the transfer of theoretical foundations and practical enhancements, as well as the interweaving of methodologies, content, and organizational principles in research. Students will continually learn how to develop a scholarly research group in which collected data is discussed and published jointly. Students will be able to compose original scholarly work for publication in national and international peer-reviewed journals, as well as present the results of their own studies and research.			
Module examination (number, form, scope):	Ungraded achievements in the context of participation in a scholarly project with the production of: - a "trial" fit for publication (internal review process), - a final presentation in the form of a conference presentation (thematic poster symposium) - a manuscript fit for publication (in the sense of submission to a publication)			
Independent study time (in hours):	510.5			
Courses (type of teaching)	Contact time (in semester hours)	Supplementary exame (number, form, scope For completing the module		Course-related module exami- nation(s) (number, form, scope)
Applied Methods "Team Player" - Establishment of a research group - Data analysis and discussion within a research	6 2	-	-	- ^ ′
group - Production of project reports	(2)			
Offered		Winter and aumana	comostor	
Offered: Prerequisite for taking the modul	Δ.	Winter and summer BM-AS Module	semester	
Teaching unit(s):	·.		dicine (incl. GP Spor	rt)
Teaching unit(s):		Sports science / medicine (incl. GP Sport)		

Last edited: August 15, 2015

CES_WM-SQ: Science Module	ication	Number of credi	it points (CP): 20		
Module type (mandatory or elective):	Mandatory modu	le			
Content and objective of module:	 Contents Differentiated statistical analysis and discussion of own research results Introduction and leadership of a discussion on research results (moderation of scholarly colloquia) Presentation of scholarly overviews Writing scholarly congress articles Composing scholarly project applications and final reports Objectives In regular workshops, participants will expand and deepen their scholarly skills. Students will summarize their own research results in project reports, manuscripts or conference reports, and situate them in the international literature. The focus here is the completion of a scholarly project from the submis- 				
Module examination (number,	sion of an application to the presentation of results. Ungraded project report (e.g., application, final report, conference report,				
form, scope):	manuscript)				
Independent study time (in hours):	510				
	T		,	Course-related	
	Control Control		elementary exam work		
Courses (type of teaching)	Contact time (in semester hours)	(number, form, sco For completing the module	For admission to the module exam	module exami- nation(s) (number, form, scope)	
Seminar: Scientific Qualification - Writing and Submitting Applications - Advanced Statistics II - International Peer Review Data Presentation - Defense of Scholarly Constructs and Data/Results - Scientific Ph.D. Tutorial	8	-	-	-	
Offered:	·	Winter and summe	Winter and summer semester		
Prerequisite for taking the module	e:	None			
Teaching unit(s):		Sports science / medicine (incl. GP Sport)			

Appendix 3:

a) Sample degree progress plan for the master's program

1 st semester	2 nd semester	3 rd semester	4 th semester			
BM-SME Basic Module Scientific Methods & Evaluation [12 CP]	AM-SME Advanced Module ule Scientific Methods & Evaluation [12 CP] BM-SK Basic Module Scientific Skills [12 CP]		Master's Thesis incl. Master's Colloquium [30 CP]			
BM-EPR Basic Module: Exercise in Prevention and Rehabilitation [12 CP]	AM-EPR Advanced Module [12 CP]	AM-AS Advanced Module Applied Science [18 CP]				
Applied	sic Module Science CP]					
30 CP	30 CP	30 CP	30 CP			
60	СР	60 CP				
120 CP						

b) Sample degree progress plan for the doctoral program

1st semester	2nd se- mester	3rd semester	4th semester	5th semester	6th semester	7th se- mester	8th semester
BM-SME Basic Mod- ule Scientific Methods & Evaluation [12 CP]	AM-SME Advanced Module Scientific Methods & Evaluation [12 CP]	BM-SK Basic Module Scientific Skills [12 CP]	QM-SW Qualifica- tion Module Scientific Writing [30 CP]	VM-AS Advanced Module Applied Science [20 CP]		WM-SQ Science Module Scientific Qualification [20 CP]	
BM-EPR Basic Mod- ule Exercise in Prevention and Rehabil- itation	AM-EPR Basic Mod- ule Exercise in Prevention and Reha- bilitation	AM-AS Advanced Module Applied Science [18 CP]					
[12 CP]	[12 CP]			Dissertation [80 CP]			
30 CP	30 CP	30 CP	30 CP	30 CP	30 CP	30 CP	30 CP
60 CP		60 CP		60 CP		60 CP	