Health and Kinesiology

Annual Program Report Template

Year: 2022	
Program: MS Kinesiology	Master of Kinesiology
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Summary of Continuous Improvement Efforts since Last Report

Provide a brief description of how assessment results have been used for program improvement. Point to a specific example of how an assessment provided the program with data it could use for improvement and what that improvement was, if possible, also show evidence of the improvement. You may look at data from the two previous academic years to support this case.

Respond here:

To better evaluate research skills, learning outcomes were updated and included assignments and questions in KINT 5340 Scienctific Basis of Exercise (Advanced Exercise Physiology) and KINT 5365 Statistics in Kinesiology. Both of the new outcome look at the use, understanding and communication of current research in Kinesiology. The outcomes are new and we have only one measurement thus far, from those the students were have succeeded at the outcomes but it is apparent more oral presentation of materials is needed. This will also be addressed in updated learning objectives to include more assessment of oral presentations. Beyond the current status, the joint venter with Nutrtion (Sport Nutriton Certification) is part of what the department is examining for the MS in Kinesiology. National Strength and Conditioning Association (NSCA) is most likely going to add the requirement of a master degree for CSCS certification. The EXSC faculty is examing the KSA (knowledge skills) to align the program content for possible NSCA accreditation for the MS degree.

Program Highlights Since Last Report

Identify and briefly discuss any programmatic curriculum changes made since the last report (e.g. new courses, course changes, SLO changes, course deletions).

Respond here:

The Departments of Health and Kinesiology and Nutrition, Hospitality and Human Services have begun a joint Sport Nutrion Certification in which the MS in Kinesiology has added a new course: KINT 5337 Sport Suppliments and Ergogenic Aids.

Table 1. Assessment Results and Analyses for Current Cycle.

STAGE 1: PLAN			STAGE 2: DO		STAGE 3: STUDY	
Departmental	Program Student	Assessment	Assessment	Benchmark	Data Results	Actions/Goals Based on Data
Student Learning	Learning Outcome		Method/Locati	Expectations		Results* What do the data tell
Goal			on			you? How will you use this
						data? How were data from the
						last cycle used to make changes
						,
						during this cycle, and What
						were the results of those
						changes?
Kinesiology	The student will submit	Evaluation of	The	At least 75% of	86% of the	Students were successful in
graduate students	a research proposal	research	components of	the students	students	fulfilling the research proposal
enrolled in KINT	consisting of an	proposal. This is	the grade	enrolled in the	enrolled in the	assignment.
5360, Research	introduction with a	the grade	include: (1)	course will	course achieved	
Methods, will	review of pertinent	assigned to the	Understanding	achieve a grade	>80% on their	
demonstrate	literature, proposed methods of conducting	research	of problem to be researched,	of 80% or better on their research	research	
competency in current issues for	the research and	proposal. & #10;	(2)	proposal	proposal submission.	
sport and physical	references. The	#10,	Appropriatenes	submission.	Subinission.	
training education	methodology		s of proposed	Subinission.		
and utilize correct	associated with		methodology,			
writing skills in a	successful completion		(3) Literature			
WRITTEN	of a realistic research		cited in correct			
RESEARCH	project is taught within		format (APA			
PROPOSAL	the course. The		format `			
PAPER. KINT 5360	research proposal can		standard,			
is a course that is	be regarded as an		others may be			
designed to	examination of the		accepted with			
introduce the	student's acquired		the permission			
students to the basic	knowledge of research		of the			
skills required to	methodology.		professor), (4)			
propose and			Quality of			
conduct a research			writing.			
project. The						
culminating project of the class is a						
proposal to conduct						
a research project						
within the field of						
kinesiology.						
Ability to critically	Ability to critically	Evaluation of	Rubric for	At least 85% of	100% of the	Students were able to
evaluate research	evaluate research	submitted	paper	the students	students in KINT	successfully evaluate literature
related to the	related to the discipline	papers (score)	evaluation:	eligible for	5365 Statistical	in Kinesiology.
discipline of	of Kinesiology. The	At least 75% of		graduation will	Applications in	

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Kinesiology.	student shall write	the students	1. What is (are)	achieve a grade	Kinesiology	
Kinesiology	three summary papers	enrolled in the	the research	of 80% ("B") or	made a grade of	
graduate students	evaluating research.	MS in	question(s)? (3	better on their	85% or better on	
shall demonstrate	The research	Kinesiology	pts)	research paper.	their article	
competency in the	evaluated will come	program will	2. What is the		reviews and	
evaluation and	from peer-reviewed	achieve an	study design		presentation	
presentation of	journals with in the	average grade	(methods)?		during the 2021-	
research related to	discipline of	of 80% or better	Look at their		22 academic	
sport, exercise and	Kinesiology (e.g. sports	on the three	methods, and		year.	
wellness issues.	performance,	research	describe the			
	physiology of exercise,	evaluation	study design			
	exercise and health	papers	(i.e. subjects,			
	issues, etc.).	submitted.	group(s),			
	ĺ	Twenty points	training			
		are possible	protocol,			
		within each	measurement(s			
		evaluation,)). (3pts)			
		therefore the	3. How did the			
		average grade	researchers			
		should be	address the			
		greater than or	question(s)?			
		equal to 16	What did they			
		points.	do in the			
		'	research design			
			to answer the			
			question(s)			
			(Statistics)?			
			(4pts)			
			4. Description			
			of findings			
			(3pts)			
			5. What did the			
			researchers			
			conclude and			
			why			
			(discussion)?			
			(2pts)			
			6. Students			
			opinion (5			
			points) What			
			did the student			
			think of the			
			study? Does			
			the study have			
			a practical			
			application?			
	<u> </u>		L application:		1	

Graduate students will perform a formal oral presentation on a current research topic in the Kinesiology field. Students will be instructed in the physiological responses and adaptations to exercise. These responses are primarily musculoskeletal and cardiovascular in nature, but certainly involve other physiological adaptations. In addition, students will be taught which	Exercise Physiology Competency Our students complete a research paper within an Independent Study course, typically during their final semester of study. The students present this paper at a seminar towards the end of the semester. Faculty members who teach in the MS in Kinesiology program attend and evaluate the presentations.	Kinesiology graduate students shall demonstrate knowledge and understanding of the basic physiological adjustments/ada ptations to both acute and chronic exercise, and be able to identify the appropriate laboratory and field tests to evaluate human performance. The students will provide written answers to	The standards-based scale utilized is: 4-Complete mastery of content area question; 3-Meets expectations (minor deficiency noted); 2-Partial mastery (more than one minor deficiency or a major deficiency); 1-Little to no mastery (major deficiencies or lack of understanding	At least 85% of the students eligible for graduation will achieve a grade of 80% ("B") or better on their oral presentation.	All of the students achieved at least a "B" on their presentations, most students received an "A."	Students have demonstrated a mastery of content knowledge in an advanced physiology course.
testing is appropriate to select and utilize for participation in		questions regarding the physiological adaptations to	noted). The questions are as follows:			
activities performed by clinical, normal and athletic		exercise. These questions will be graded on a 4	1) Compare and contrast			
populations.		point standards- based scale. At least 75% of the students	the type of basic training program that you would			
		enrolled the MS in Kinesiology program will achieve a mean	design for an athlete that performs primarily			
		score of greater than or equal to 3.	anaerobic tasks and one that performs primarily			
			aerobic activities. Which tests			
			would you use to document			

progress?
2) What is the
Fick equation
for oxygen? Which of the
components of
the equation
are most
closely related
to central
cardiovascular
adaptations to
cardiovascular
training and
which are associated with
peripheral
musculoskeletal
training? How
does stroke
volume
contribute to
the equation?
3) Which type
of sporting
events are
adversely
influenced by a
decreased
barometric
pressure (e.g. going from 760
mmHg to 600
mmHg)? Why?
Are there any
track and field
events that may
be positively
influenced by
this type of
barometric change?
Change:

Table 2. Continuous Improvement Results Since Last Report

Stage 4: ACT		
Actions/Goals Based on Data Results	Status	Discussion of Status
*Copy last cycle's actions/goals and report on	C=Complete	If C, describe efforts that led to accomplishment of
progress toward continuous improvement on those	P=Progressing	actions/goals.
here.	N=No Action Taken	If P, provide update on progress made toward
		accomplishing actions/goals and what tasks
		remain
		If N, discuss why action toward accomplishing
		actions/goals has been delayed and what work will
		be initiated toward accomplishment.
Kinesiology graduate students enrolled in KINT	N	In the future we might update learning objectives to
5360, Research Methods, will demonstrate		include more assessment of oral presentations.
competency in current issues for sport and physical		indiade more assessment of oral presentations.
training education and utilize correct writing skills in		
a WRITTEN RESEARCH PROPOSAL PAPER.		
KINT 5360 is a course that is designed to introduce		
the students to the basic skills required to propose		
and conduct a research project. The culminating		
project of the class is a proposal to conduct a		
research project within the field of kinesiology.	N	In the future we might undete learning chiestives to
Ability to critically evaluate research related to the discipline of Kinesiology. Kinesiology graduate	IN IN	In the future we might update learning objectives to include more assessment of oral presentations.
students shall demonstrate competency in the		include more assessment or oral presentations.
evaluation and presentation of research related to		
sport, exercise and wellness issues.		
Graduate students will perform a formal oral	N	In the future increase the application of principles in
presentation on a current research topic in the		the discussion.
Kinesiology field. Students will be instructed in the		
physiological responses and adaptations to		
exercise. These responses are primarily		
musculoskeletal and cardiovascular in nature, but certainly involve other physiological adaptations. In		
addition, students will be taught which testing is		
appropriate to select and utilize for participation in		
activities performed by clinical, normal and athletic		
populations.		