



Faculty Senate Office Ashe Administration Building, #325 1252 Memorial Drive Coral Gables, FL 33146 facsen@miami.edu web site: www.miami.edu/fs P: 305-284-3721 F: 305-284-5515

MEMORANDUM

To:

Donna E. Shalala, President

From:

Richard L. Williamson

Chair, Faculty Senate

Date:

September 21, 2012

Subject:

Faculty Senate Legislation #2012-10(B) — Establishment of The Master of Science degree track in Exercise Physiology entitled "Nutrition for Health and Human Performance" in the Exercise Physiology Master's Degree Program in the School of

Education and Human Development

At its September 19, 2012 meeting, the Faculty Senate unanimously approved the proposal to establish the Master of Science degree track in Exercise Physiology entitled "Nutrition for Health and Human Performance" in the Exercise Physiology Master's Degree Program in the School of Education and Human Development. The goal of this two-year, 36-39 credit program is to prepare graduates to take leadership roles in providing nutrition services that interface with current practices in Exercise Physiology. This effort will help to promote improvements in health and well-being in the setting of a physically active lifestyle.

The supporting materials are enclosed for your reference.

This legislation is now forwarded to you for your action.

RW/rh

Enclosure

cc:

Thomas LeBlanc, Executive Vice President and Provost Isaac Prilleltensky, Dean, School of Education and Human Development Arlette Perry, Chair, Department of Kinesiology and Sport Sciences CAPSULE: Faculty Senate Legislation #2012-10(B) – Establishment of The Master of Science degree track in Exercise Physiology entitled "Nutrition for Health and Human Performance" in the Exercise Physiology Master's Degree Program in the School of Education and Human Development

PRESIDENT'S RESPONSE
APPROVED: DATE: 9/26/12 (Prosident's Signature)
OFFICE OR INDIVIDUAL TO IMPLEMENT: DEAN PRILLELTENSKY
EFFECTIVE DATE OF LEGISLATION:IMMEDIATELY(if other than June 1 next following)
NOT APPROVED AND REFERRED TO:
REMARKS (IF NOT APPROVED):

"Nutrition Track for Health and Human Performance" 9/19/12 FS Agenda Page 1 of 16

Department of Kinesiology and Sports Sciences

Memo

To: Members of the Faculty Senate

From: Arlette Perry, Chair Kinesiology and Sport Sciences Department

Date: 9/1/2012

Re: Request for approval of the Nutrition for the Health and Human Performance track

Since the August 2011 meeting of the Faculty Senate, my faculty and I have been working diligently to produce a document responsive to the excellent feedback we received. We have met with appropriate faculty and administration during the past several months to produce the revised document. Furthermore, the guidelines from the Dietetics and Nutrition Practice Council were recently revised. As a result of the revisions we met with a council representative to ensure that upon graduation from this track, students would be eligible to sit for the exam to become a Licensed Dietitian/Nutritionist in the State of Florida.

At this time the department is prepared to move forward with the new track within the M.S. Ed. in Exercise Physiology entitled, "Nutrition for Health and Human Performance" in the School of Education and Human Development. Included in the materials is the initial letter of support from the Dean of the School of Nursing, letters of support from the Lucille P. Markey Chair of the Department of Biochemistry and Molecular Biology, the Chair of the Department of Public Health and Epidemiology (Appendix A), and a list of other institutions which integrate Nutrition and Exercise Physiology into their graduate degree curriculum (Appendix B).





Nutrition for Health and Human Performance track in the Exercise Physiology Masters Degree Program

Mission

The Master's of Science degree track in Exercise Physiology entitled "Nutrition for Health and Human Performance" was designed to develop an interface between Exercise Physiology and Nutrition Science. It is a two-year, 36-39 credit program. Graduates are prepared to take leadership roles in providing nutrition services that interface with current practices in Exercise Physiology. This effort will help to promote improvements in health and well-being in the setting of a physically active lifestyle.

Specifically, students in the graduate program will be prepared to:

1. Plan and program sport-specific nutrition services for individuals, teams, and groups.

2. Screen, assess, follow up, and monitor athletes and active individuals in a variety of settings, integrating both nutrition and exercise science principles and skills.

3. Guide athletes as to the appropriate nutritional practices for their sport.

4. Effectively integrate nutritional interventions into the annual exercise training and competition plan of athletes at the recreation, collegiate and professional level.

5. Provide sport-specific nutrition education to active youth in community settings (e.g., schools, afterschool programs, and clubs).

6. Provide sport nutrition and exercise-related services and programs to university recreation centers, active students, faculty, staff, and student athletes.

7. Provide nutrition education and exercise- related services to active community groups with focus on health promotion, fitness, weight maintenance and loss, and disease prevention.

8. Counsel athletes and active individuals on nutritional guidelines in a variety of settings.

9. Work as part of the multi-disciplinary team in a variety of sport-related and clinical health-related

10. Effectively use scientific knowledge and evidence-based principles in evaluating and analyzing educational programs that enhance healthy lifestyle behaviors.

11. Take certification examinations such as a Sports Nutritionist, (provided by the International Society of Sports Nutritionists), or as a Licensed Dietitian/Nutritionist from the State of Florida.

Rationale

Past student evaluations had revealed a tremendous interest for more nutrition courses in the exercise physiology program. This interest was reiterated in our student focus groups. In researching different institutions around the country, we found nine schools that have an integrated graduate curriculum in nutrition and exercise physiology (See Appendix B).

The degree is rooted in a scientific background in the applied sciences with an emphasis in either human performance or health promotion/disease prevention. The idea is to integrate both nutrition and exercise physiology concepts so that students can take leadership roles in providing nutritional services to high school, collegiate, recreation, elite and professional level athletes, and active men and women of all sports. The program will also enable students to plan, develop, and implement sound nutritional practices for active and athletic communities on a national and international level.

The Kinesiology and Sport Sciences department already possesses a large cohort of over 180 undergraduate majors in Exercise Physiology and approximately 60 minors in Exercise Science and Sports Medicine that would easily feed into this graduate track. Aforementioned students will have an excellent opportunity to pursue their knowledge base in a track that enhances the integration of Nutrition and Exercise Physiology.

Those who are already dietitians will have a chance to learn how nutritional science can work with exercise science to improve health and sport performance. For those interested in gaining a background relevant to nutrition education and evaluation, this program will promote their ability to apply sound nutritional and sciencebased exercise physiology principles into their professional practice.

Graduates of the program may practice independently, conduct nutritional, health and fitness education seminars, and/or tailor nutrition programs for:

- Medical Practices/Rehabilitation Centers
- Professional and amateur sport teams and organizations; coaches and athletes
- Diabetes treatment and cardiac rehabilitation centers
- Hospitality industry-hotels, spas, cruise ships, resorts
- Health Clubs/Spas/Gyms
- Summer camps, youth organizations
- Community Wellness Centers
- Corporate Wellness Programs
- Health Maintenance Organizations
- Weight Management Programs
- Media and Internet
- Culinary cooking schools
- The military and police forces
- Functional medicine research and practice
- Non-profit Health Centers
- Community and faith-based organizations

Upon graduation, students will be able to take the exam to become a Sports Nutritionist under the auspices of the International Society of Sports Nutritionists. They will also be able to sit for the exam to become a Licensed Dietitian/Nutritionist as approved by the Dietetics and Nutrition Practice Council in the State of Florida. Knowledge gained from the completion of the track along with acquired credentials will enable graduates to assess the dietary needs of individuals or groups of individuals and make appropriate nutritional recommendations.

Program Requirements

This program is administered by the School of Education and Human Development, Department of Kinesiology and Sports Sciences with assistance from faculty in the School of Nursing and the Miller School of Medicine.

Graduation Requirements

Students must complete the 36-39 credit M.S. Ed. track in Exercise Physiology entitled "Nutrition for Health and Human Performance".

Before graduation, students must pass a comprehensive examination that demonstrates mastery of the theory and application of nutrition and exercise physiology as it relates to Human Performance and/or Health Promotion/Disease Prevention. The comprehensive exam is a written examination supervised by three members of the faculty on the graduate studies committee of the Department of Kinesiology and Sports Sciences. The comprehensive examination is designed to measure a student's ability to conceptualize, critically analyze, and present knowledge in a succinct and cogent manner.

Admission Procedures

Applicants must apply to and be accepted into the University of Miami Graduate School before they can be accepted into the Nutrition for Health and Human Performance track.

All new applicants should possess:

- A Bachelor of Science in the Applied Sciences (Kinesiology, Nutrition, Athletic Training or its equivalent); Health Sciences, (Nursing, Pre-Physical Therapy or its equivalent); and/or Basic Sciences (Chemistry, Biochemistry, Biology or its equivalent).
- A GPA of 3.0 or higher on a 4.0 scale in the last 60 hours of undergraduate coursework in their major.
- Evidence of completing the GRE's with a preferred combined score of at least 297.
- Three letters of recommendation from the school, work, or community/religious/volunteer internships and a 1-2 page statement of intent providing evidence of work and/or volunteer experience related to intended field of study and goals.
- A statement of professional goals
- Official transcripts that provide evidence of prerequisites or the equivalent of undergraduate courses in:
 - a. Quantity Food Service/Preparation
 - b. Basic Nutrition (KIN 150 or KIN 202 or the equivalent)
 - c. Exercise Physiology (KIN 321 or KIN 421 or the equivalent)
 - d. Human anatomy and physiology (KIN 233/234 and KIN 232 or the equivalent)
 - e. One-two years of a combination of chemistry, organic chemistry, biology, biochemistry, microbiology and laboratories.

Applicants may take all pre-requisite courses at the University of Miami. The only exception is Quantity Food Service/Preparation which may be taken elsewhere i.e., Miami Dade College or Florida International University.

Curriculum Overview

The graduate degree track in Nutrition for Health and Human Performance has two options: one in Human Performance, the other in Health Promotion/Disease Prevention.

Option 1: Human Performance

The Human Performance option emphasizes sports nutrition, enabling students to meet the responsibilities of the sports dietitian in practice. According to the Sports Cardiovascular and Wellness Nutritionists Dietetic Practice Group of the Academy of Nutrition and Dietetics, this includes:

Providing individual and group/team nutrition counseling and education to enhance the performance of competitive and recreational athletes, on-site and during travel;

Counseling individuals and groups on daily nutrition for performance and health;

Translating the latest scientific evidence into practical sports nutrition recommendations; ; this can be done by evaluating the latest scientific evidence in the literature, making decisions about the validity of this information, and applying relevant findings into one's nutritional plan;

Tracking and documenting outcomes of nutrition services, serving as a food and nutrition resource for

coaches, trainers, and parents;

Providing sports nutrition education for health wellness programs, athletic teams, and community groups; and

Maintaining professional competency and skills required for professional practice.

According to the Collegiate and Professional Sports Dietitians Association:

"Having an advanced degree provides additional options in education, research, and administration. A focus on healthy body weight and treating and preventing obesity offers extensive opportunities to combine nutrition expertise with physical activity. Beyond a strong base in clinical nutrition, exercise science, and counseling, an entrepreneurial attitude and practical experience are keys to establishing a solid career in sports dietetics."

Option 2: Health Promotion/Disease Prevention

The Health Promotion/Disease Prevention option will incorporate principles of both traditional and integrative/functional medicine, which involves understanding nutritional information in the context of the origin, prevention, and treatment of complex chronic disease.

According to the Dietitians in Integrative and Functional Medicine Practice Group of the Academy of Nutrition and Dietetics:

"The advanced level dietetics practitioner: demonstrates the ability to effectively communicate using a variety of media; directs/leads/organizes other professionals; critically assesses the research literature pertaining to health promotion and disease prevention, health and fitness, etc. in order that nutrition services are provided to individuals and groups resulting in enhanced nutrition status. The practitioner promotes the integration of conventional medical nutrition practices with evidence-based alternative therapies through education, research and practice. The practitioner is an expert in a particular focused area of dietetics practice such as, but not limited to, maternal and child nutrition, nutrition and sports, nutrigenomics, complementary and alternative medicine, nutriceuticals, nutrition supplements. These experts engage in a practice that is evidence based and are competent to develop/direct accredited education programs for dietetic practitioners studying in a focus area of dietetics practice."

Find below the requirements for the Nutrition for Health and Human Performance track in the graduate Exercise Physiology Master's of Science degree

NUTRITION FOR HEALTH AND HUMAN PERFORMANCE

Total Credits for Graduate Program: 36-39 credits

Core Courses

Course Title	Credit	Professor
	3	J. Kressler
KIN 550 Nutritional Biochemistry and Integrative	3	30000 00000000000000000000000000000000
Metabolism	3	L. Dorfman
KIN 549 Nutrition Assessment and Laboratory		T William
KIN 543 Professional Training and Counseling for	3	L. Dorfman/F. Yahia
Integrative Health		S. Rarback
KIN 538 Nutrition and Health Issues Across the Lifecycle	3	S. Kaiback
	3	L. Dorfman
KIN Food Science and Application*	3	
KIN 579 Principles of Exercise	3	K. Jacobs
Prescription/Assessment: Cardiovascular		
KIN 586 Exercise Prescription Assessment Laboratory	3	K. Jacobs
KIN 580 Exercise Frescription / 185000mont 2557447		K. Jacobs
KIN 646 Research Methods	3	N. Jacobs
er spin statet, sterebritiske et is itt	3	L.Dorfman
KIN Graduate Seminar in Nutrition*	3	
Subtotal	27 credits	

^{*} KIN number pending

Option 1- Human Performance- choose 2 out of 4

ion 1- Human Performance- choose 2 out of 4 Course Title	Credit	Professor
IN Dietary Supplements and Human Performance	3	W. Smith/ J. Kressler
(IN Sport-Specific Nutrition*	3	L. Dorfman
KIN 577 Advanced Nutrition Planning for Sports and	3	K. Jacobs
itness		A. Perry
KIN 683 Sports Medicine for the Female Athlete	3	711.7
Subtotal	6 credits	

^{*} KIN number pending

Option 2-Health Promotion/Disease Prevention-Choose 2 out of 4

Course Title	Credit	Professor
	3	S. Rarback
KIN Medical Nutrition Therapy *		L. Parker
KIN 527 Global Health and Nutrition	3	
KIN 681 Issues Specific to Women's Health and Aging	3	A. Perry
KIN 534 Integrative and Functional Nutrition	3	F. Yahia
Subtotal	6 credits	

^{*} KIN number pending

Electives - Students will select an elective from the following

O Titlo	Course#	Credit	Professor
Course Title	KIN 696	3	L. Dorfman
Graduate Field Experience in Nutrition*	KIN 600	3-6	L. Dorfman
Supervised Practicum**		3	TBA
Public Health Nutrition	EPH 561	- 100	TBA
Chronic Disease Epidemiology	EPH 621	3	
Introduction to Preventive Health	EPH 614	3	Dr. Prado
Principles of Biochemistry and Molecular Biology	BMB 506	3	TBA
	KIN 553	3	L. Dorfman
Food Science and Application	BMB 545	3	TBA
Research Problems in Biochemistry and Molecular Biology		3	TBA
Proteins and Enzymes	BMB 507	3	1271
Subtotal	3-6 credits	1	

^{*}This includes a three-credit field experience in the area of nutrition at a minimum of 180 hours total time (12 hours per week for one semester) conducted either within the University of Miami or community setting.

Total Credits for the Graduate Program (Two Years): 36-39 credits

^{**}This includes a more comprehensive supervised practical experience in nutrition for 900 hours over the course of two semesters (450 hours per semester) for a total of 6 credits. This practicum is required to become a Licensed Dietitian/Nutritionist in the State of Florida.

Appendix A

UNIVERSITY OF MIAMI SCHOOL of NURSING & HEALTH STUDIES



Nilda (Nena) P. Peragallo, DrPH, RN, FAAN Dean and Professor

June 1, 2011

Faculty Senate
University of Miami
1252 Memorial Drive
325 Ashe Administration Building
Coral Gables, FL 33124

Dear Faculty Senate,

I have reviewed the graduate program in "Nutrition for Health & Human Performance" in the School of Education, and fully support its approval. I am cognizant of the fact that Dr. Perry is collaborating with one of my faculty members in the School of Nursing and I wish her continued success with her Nutrition track in the future.

Regards,

Nilda (Nena) P. Peragallo, DrPH, RN, FAAN

Dean and Professor

University of Miami

School of Nursing and Health Studies

UNIVERSITY OF MIAMI MILLER SCHOOL of MEDICINE



José Szapocznik, Ph.D. April 23, 2012

> Dr. Arlette Perry Professor and Chairperson, Department of Kinesiology & Sports Sciences Director, Laboratory of Clinical & Applied Physiology University of Miami School of Education Merrick Bldg. 315 Coral Gables, FL 33146

Dear Dr. Perry,

As the Chair of the Department of Epidemiology and Public Health, I commend you on your efforts to develop the Nutrition for Health and Human Performance Track as part of the Exercise Physiology Master's of Science degree program at the University of Miami School of Education,

I am heavily invested in the need for public health education and practice in the area of nutrition and overall health and I am a strong advocate of bringing this to the University of Miami and the community at large.

Our mission is to provide educational programs to practicing health professionals and students newly entering the field; to conduct, stimulate, and guide research activities relevant to local, statewide, and national health needs. It is only natural that we support your Nutrition for Human Health Performance track, which will aid in health promotion and disease prevention at a population level.

I am honored you have selected my department's classes as part of your curriculum, and I know that our faculty will be thrilled to have your students in our program.

José Szapocznik, Ph.D.

Chair, Department of Epidemiology and Public Health Director, Clinical & Translational Science Institute

Chair, Department of Epidemiology and Public Health 1120 NW 14th Street, Suite 1010 | Miami, FL 33136 Fh: 305-243-8331 | Fax: 305-243-5585 | jszapocz@med.mlami.edu





Department of Biochemistry and Molecular Biology • R.Bunn Gautier Bldg. • 1011 NW 15th Street Miller School of Medicine • University of Miami • Miami FL 33136 • (305) 243-4005 •

April 13, 2012

Dr. Arlette Perry Professor and Chair, Department of Kinesiology & Sports Sciences Director, Laboratory of Clinical & Applied Physiology University of Miami School of Education Merrick Bldg. 315 Coral Gables, FL 33146

This letter is to express the support of the Department of Biochemistry and Molecular Biology of the Miller School of Medicine for your proposal to create the Nutrition for Health and Human Performance Track as part of the Exercise Physiology Master's of Science degree program at the University of Miami School of Education. As you know, this past year the Department of Biochemistry and Molecular Biology launched a BS track in Nutritional Biochemistry. Our commitment to educating students in this field highlights our firm belief in the importance of Nutrition as an essential component of human realth and fitness. In that regard, I appreciated that you and Dean Prilleltensky took the initiative to consult with Dean Goldschmidt, Dr. Nawaz, Director of Graduate Studies of Biochemistry and Molecular Biology, and me when developing the curriculum. As agreed, we will be happy to help support your program with the inclusion of two courses offered by Biochemistry and Molecular Biology in the proposed curriculum.

I view this MS Nutrition for Health and Human Performance Track as the beginning of an exciting collaboration between the School of Education and the Department of Biochemistry and Molecular Biology, and look forward to future joint educational programs and research projects.

> Best wishes for a very successful program, Splic Downest

Sylvia Daunert

Professor and Lucile P. Markey Chair Department of Biochemistry and Molecular Biology Associate Director, Biomedical Nanotechnology Institute Editor, Analytical and Bioanalytical Chemistry Executive Editor, Analytical Biochemistry

cc: Dr. Pascal J. Goldschmidt, Senior Vice President for Medical Affairs and Dean, Miller School

Dr. Zafar Nawaz, Director of Graduate Studies, Department of Biochemistry and Molecular Biology, Miller School of Medicine

Appendix B

"Mutrition Track for Health and Human Performance" 9/19/12 PS Agenda Page 13 of 16

Institutions with Integrative Graduate Degrees in Nutrition and Exercise Physiology

School Name Department Name College of Human Sciences Dept of Nutrition, Food and Exercise Sciences Doisy College of Health Sciences Nutrition and Dietetics School of Health Professions and Nursing Dept of Nutrition School of Public Health and Health Dept of Exercise and Nutrition	and Exercise MS in Nutrition and Food Science-Sports Performance MS in Nutrition and Dietetics: Nutrition and Physical Performance MS in Nutrition: Nutrition and Exercise Physiology	od Science-Sports	
man Sciences of Health Sciences lith Professions and olic Health and Health		a solicio obia	:
- La			Public
- 4		etetics: Nutrition and	Private
- H		-	
th		tion and Exercise	Private
Health			:
Sciences	utrition MS in Exercise and Nutrition	ıtrition	Public
Professions Meyement Sciences and	I Nutrition	logy and Nutrition	Private
Columbia University Teachers College Education/Kinesiology		Contract of the contract of th	-
	MS in Nutrition: Sports and Fitness	ts and Fitness	Public
Coaching Education		Irace and Human	-
School of Health and Rehabilitation Sport Medicine and Nutrition	rition Performance	Illess alla rianian	Public
Sciences		-0:+:14	Public
Nutrition and Food Sciences	MS in Exercise and Sports Nutrition	Sorts Indication	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
SO OF LICARIES CONTROL	MS in Health Science	MS in Health Sciences: Nutrition and Physical	Public
College of Integrated Science and Dept of Health Sciences			2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

On Aug 28, 2012, at 1:08 PM, Larsson, Peter wrote:

Dear Dr. Arlette Perry,

It was a pleasure to meet with you and discus your Nutrition track Master's program and your Exercise Physiology Ph.D. program and how it relates to our Physiology and Biophysics Ph.D. program. Your students are welcome to take any of the courses in our Physiology and Biophysics Ph.D. program. I will also inform our students about your curriculum and your courses. As we discussed, our courses might be most relevant for your Ph.D. students. The most relevant courses for these students would be the introductory PIBS 601 course and the PHS 641/642 membrane biophysics courses. If you need any more information about or program, please feel free to contact me again.

Sincerely,

Peter

H. Peter Larsson, Associate Professor Department of Physiology and Biophysics University of Miami, Miller School of Medicine 1600 NW 10th Avenue, RMSB 5123 Miami, FL 33136 ph: 305-243-1021

fax: 305-243-5931

"Nutrition Track for Health and Human Performance" 9/19/12 FS Agenda Page 15 of 16

UNIVERSITY OF MIAMI SCHOOL of EDUCATION & HUMAN DEVELOPMENT



Education 5202 University Drive Coral Gables, FL 33146 Phone: 305-284-3711 Fax: 305-284-3003 miami.edu

MEMORANDUM

DATE: September 6, 2012

TO: Richard Williamson, Chair

Faculty Senate

FROM: Dr. Arlette Perry, Chair a. 🤼

Department of Kinesiology and Sport Sciences

SUBJECT: New Track in Exercise Physiology

I am delighted to inform you that the track in "Nutrition for Health and Human Performance" was unanimously approved by faculty in the Kinesiology and Sport Sciences department, April 2011. None of the faculty members in the department of Kinesiology and Sport Sciences expressed any concerns.

UNIVERSITY OF MIAMI GRADUATE SCHOOL



Terri A. Scandura, Ph.D. Dean of the Graduate School

Graduate School P.O. Box 248125 Coral Gables, FL 33124-3220 Phone; 305-284-4154 Fax: 305-284-5441 graduateschool@mlami.edu

MEMORANDUM

Terri A. Seardino

DATE:

April 28, 2011

TO:

Richard Williamson

Chair, Faculty Senate

FROM:

Terri A. Scandura

Dean, The Graduate School

SUBJECT:

New Track in Exercise Physiology

The School of Education has submitted a request to add a new track in Exercise Physiology: Nutrition for Health and Human Performance. The addition of the new track was discussed at the meeting of the Graduate Council on Thursday, April 21, 2011, and none of the Graduate Council members expressed any concerns.

cc:

Isaac Prilleltensky, Dean

Arlette Perry, Chair

Office of Planning, Institutional Research and Assessment