# **EXERCISE PHYSIOLOGY - M.S.** Admission Requirements

#### College of Education Health and Human Services

School of Health Sciences www.kent.edu/ehhs/hs

## **About This Program**

Become a leader in exercise physiology with Kent State's master's degree. Our rigorous program is designed to prepare you for a successful career in academia or research. With access to cutting-edge facilities and expert faculty, you'll gain the knowledge and experience needed to make an impact in the field. Read more...

#### **Contact Information**

- Program Coordinator: J. Derek Kingsley | jkingsle@kent.edu | 330-672-0222
- · Chat with an Admissions Counselor

# **Program Delivery**

- Delivery:
  - · In person
- Location:
  - · Kent Campus

## **Examples of Possible Careers and** Salaries\*

#### Biological science teachers, postsecondary

- · 9.3% much faster than the average
- · 64,700 number of jobs
- · \$85,600 potential earnings

#### Medical scientists, except epidemiologists

- · 6.1% faster than the average
- 138,300 number of jobs
- \$91,510 potential earnings

#### **Additional Careers**

· Strength and Conditioning Coach

## Accreditation

Commission on Accreditation of Allied Health Education Programs

\* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics

Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

- Bachelor's degree in exercise science, or equivalent preparation, from an accredited college or university
- · Minimum 2.750 undergraduate GPA on a 4.000 point scale
- Official transcript(s)
- · Goal statement
- · Two letters of recommendation
- · English language proficiency all international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning one of the following:
  - · Minimum 550 TOEFL PBT score
  - · Minimum 79 TOEFL IBT score
  - · Minimum 77 MELAB score
  - · Minimum 6.5 IELTS score
  - · Minimum 58 PTE score
  - · Minimum 110 Duolingo English score

Degree applicants are expected to have substantial preparation in the sciences, usually including coursework in biology, chemistry, physics, mathematics, anatomy, kinesiology and exercise physiology.

# **Application Deadlines**

- Fall Semester
  - · Rolling admissions
- Spring Semester
  - · Rolling admissions
- · Summer Term
  - · Rolling admissions

## **Program Requirements**

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Code	Title	Credit Hours
Major Requiremen	nts	
ATTR 53018	ETHICAL LEADERSHIP FOR HEALTH CARE	3
EXPH 63050	RESEARCH PROCESS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY	3
EXPH 63091	RESEARCH SEMINAR	1
Additional Require	ements or Concentration	
Choose from the following:		27
Additional Require	ements for Students Not Declaring a Concentration	
Athletic Training (	Concentration	
Minimum Total Credit Hours:		

#### Additional Requirements for Students Not Declaring a Concentration

Code		Credit Hours
Major Requirements		
EXPH 63051	QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE PHYSIOLOGY	3
EXPH 65081	ENERGY METABOLISM AND BODY COMPOSITION	3
or EXPH 65083	EXERCISE ENERGY METABOLISM	
EXPH 65082	CARDIO-RESPIRATORY FUNCTION	3
or EXPH 65084	CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE	

Suggested Electives, choose from the following:		
BMS 68610	HUMAN GROSS ANATOMY I	
BMS 68611	HUMAN GROSS ANATOMY II	
BSCI 50020	BIOLOGY OF AGING	
BSCI 50431	NEUROENDOCRINOLOGY	
EXPH 50612	EXERCISE LEADERSHIP FOR THE OLDER ADULT	
EXPH 55065	EXERCISE TESTING	
EXPH 55070	ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST	
EXPH 55080	PHYSIOLOGY OF EXERCISE	
EXPH 60610	PHYSIOLOGY OF AGING: IMPLICATIONS FOR HUMAN BEHAVIOR	
EXPH 63098	RESEARCH	
EXPH 65080	PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT	
EXPH 65086	NEUROBIOLOGY OF MOVEMENT AND EXERCISE	
NUTR 63518	ADVANCED SPORTS NUTRITION	
Addtional Electives Chosen in Consultation with Advisor		
Culminating Requirement		
Choose from the following:		
EXPH 63098	RESEARCH	
& EXPH 65192		
EXPH 63199	THESIS I	
EXPH 65192		27
Minimum Total Credit Hours:		

Code	Title	Credit Hours		
Concentration Requirements				
ATTR 62010	CONTEMPORARY ISSUES IN ATHLETIC TRAINING	3		
ATTR 62012	EDUCATION AND SUPERVISION PROCESSES IN ATHLETIC TRAINING	3		
ATTR 62014	ADVANCED CLINICAL PROCEDURES IN ATHLETIC TRAINING AND SPORTS MEDICINE	3		
ATTR 62016	CLINICAL INQUIRY IN ATHLETIC TRAINING	3		
Suggested Electives	s, choose from the following: <sup>1</sup>	9-12		
BMS 60450	MEDICAL PHYSIOLOGY II			
BMS 68610	HUMAN GROSS ANATOMY I			
BMS 68611	HUMAN GROSS ANATOMY II			
BSCI 50020	BIOLOGY OF AGING			
BSCI 50142	BIOENERGETICS			
BSCI 50431	NEUROENDOCRINOLOGY			
BSCI 50432	ENDOCRINOLOGY			
BSCI 50433	MAMMALIAN PHYSIOLOGY I			
BSCI 50434	MAMMALIAN PHYSIOLOGY II			
CHEM 50261	BIOCHEMISTRY: BIOMOLECULE STRUCTURE AND FUNCTION			
EXPH 50612	EXERCISE LEADERSHIP FOR THE OLDER ADULT			
EXPH 55065	EXERCISE TESTING			
EXPH 55070	ELECTROCARDIOGRAPHY FOR THE EXERCISE PHYSIOLOGIST			
EXPH 55080	PHYSIOLOGY OF EXERCISE			
EXPH 60610	PHYSIOLOGY OF AGING: IMPLICATIONS FOR HUMAN BEHAVIOR			

	(DLL 600E1	OLIANITITATIVE AND DECEADOLIMETUODO	
EX	(PH 63051	QUANTITATIVE AND RESEARCH METHODS IN ATHLETIC TRAINING AND EXERCISE	
		PHYSIOLOGY	
EX	(PH 63098	RESEARCH	
EX	(PH 65075	MUSCLE FUNCTION AND EXERCISE	
EX	(PH 65076	ENVIRONMENTAL STRESS AND EXERCISE	
EX	(PH 65080	PHYSIOLOGICAL BASIS OF EXERCISE AND SPORT	
EX	(PH 65081	ENERGY METABOLISM AND BODY COMPOSITION	
EX	(PH 65082	CARDIO-RESPIRATORY FUNCTION	
EX	(PH 65083	EXERCISE ENERGY METABOLISM	
EX	(PH 65084	CARDIOVASCULAR-RESPIRATORY DYNAMICS DURING EXERCISE	
EX	(PH 65086	NEUROBIOLOGY OF MOVEMENT AND EXERCISE	
NU	JTR 53513	MICRONUTRIENT NUTRITIONAL BIOCHEMISTRY	
NU	JTR 63518	ADVANCED SPORTS NUTRITION	
Addtional Electives Chosen in Consultation with Advisor			
Culmi	nating Requireme	nt	
Choose from the following:		3	3-6
AT	TR 63098	RESEARCH 1	
AT	TR 63199	THESIS I	
Minimum Total Credit Hours:			27

Students who select ATTR 63098 must take additional coursework to meet the minimum credit hours required for the degree.

# **Graduation Requirements**

Only in rare instances does a student fulfill the educational and research expectations within the minimum credit-hour requirement for this degree. Any deficiencies for a doctoral academic preparation must be corrected very early in the approved academic program.

# **Program Learning Outcomes**

Graduates of this program will be able to:

- Pass one of the American College of Sports Medicine's (ACSM) or NSCA exams: Certified Exercise Physiologist (C-EP) or Certified Strength and Conditioning Specialist (CSCS).
- 2. Demonstrate understanding of the physiology of human movement across the lifespan.
- 3. Demonstrate detailed knowledge of the anatomy and physiology of the human and health and disease.
- Demonstrate knowledge of the pathophysiology of disease, risk factors and special exercise populations, according to the American College of Sports Medicine.

Graduates of the Athletic Training concentration will be able to:

- Apply the principles of the research process in athletic training by engaging with faculty and clinical staff in graduate research initiatives.
- 2. Engage health care professionals and apply the knowledge gained, through their education in both the classroom and clinical settings.

3. Engage in program improvement as part of a continuous quality improvement initiative by evaluating the effectiveness of the program through multiple evaluation resources.

# **Full Description**

The Master of Science degree in Exercise Physiology prepares graduates for a wide variety of career options, including exercise prescription and research, as well as future doctoral study. Representative faculty research includes the areas of body composition, metabolism/nutritional requirements, environment, clinical exercise physiology and the physiology of aging as it is influenced by physical activity and fitness.

Athletic training faculty also support the degree path with their areas of expertise in clinical and educational research in the field of athletic training.

The Exercise Physiology major includes the following optional concentration:

• The Athletic Training concentration is designed to serve the needs of post-certification (or certification-pending) students who wish to further their knowledge and skills in the athletic training profession while pursuing a master's degree. Students have the opportunity to pursue advanced clinical and academic training while obtaining knowledge and skills relative to effective clinical instruction and supervision. Advanced research skills are also a critical component to this advanced track program. Opportunities to perform research independently and/or in conjunction with program faculty are widely available.

### **Professional Licensure Disclosure**

This program is designed to prepare students to sit for applicable licensure or certification in Ohio. If you plan to pursue licensure or certification in a state other than Ohio, please review state educational requirements for licensure or certification and contact information for state licensing boards at Kent State's website for professional licensure disclosure.