EXERCISE SCIENCE, MS

Contact

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Description

The master's program in exercise science is designed to train students for positions in hospitals and in corporate and private agencies that provide fitness and wellness programming and rehabilitative exercise programs. An emphasis on research in applied physiology also prepares students for doctoral programs in exercise science. Students in exercise science have the opportunity for supplemental study in areas such as nutrition, health promotion, and sports medicine.

Admissions

The admissions requirements for this program include: undergraduate degree with a minimum cumulative 3.0 GPA, GRE scores, TOEFL scores (for international applications), undergraduate transcripts, three letters of recommendation, and a resume and personal statement.

Prerequisite course work to be considered for admission to the MS in Exercise Science include:

- · General Biology 8 credits (must include labs)
- · Human Anatomy & Physiology 8 credits (must include labs)
- 3 credits Exercise Physiology or 6 credits in other General Science including Chemistry, Physics, Biochemistry, Biology; (excluding BIO I/ II and A&P I/II)

Part-Time Study

Part-time study is acceptable; however, time to degree completion depends on available course offerings and number of courses enrolled. Time limit to degree completion is 7 years.

Financial Support

Limited department financial aid is available in the form of graduate assistantships and scholarship credits for students enrolled in masters and doctoral programs. Financial aid is determined based on merit.

Additional information regarding graduate financial aid can be found at https://financialaid.syr.edu/typesofaid/graduatestudentaid/.

Transfer Credit

Students may transfer up to 9 credits. Substituted/transferred course work should cover material equivalent to that which is covered in the relevant required course. Substitution/transfer requests will need to be approved by the graduate committee for exercise science programs. All students are expected to file a tentative program of study in their second semester. Students transferring courses from another institution must file a program of study prior to completing 12 credits at Syracuse University.

Satisfactory Progress

Certification for an advanced degree at Syracuse University requires a minimum average of 3.0 for work comprising the program for the degree and a 2.8 average for all credits earned.

Degree

MS. 36 credits

Student Learning Outcomes

- Explain how metabolic, muscle, cardiovascular, and pulmonary systems underlie human physical performance.
- 2. Interpret and critique research findings in the exercise sciences.
- 3. Apply basic research design to the study of exercise science.
- Apply quantitative methods and tools to analyze research data (their own collected data or secondary data analysis).
- 5. Present research findings (their own or the findings of others) in a professional and informative manner.
- Write a research report/manuscript following established conventions in the field.

Major Requirements

The M.S. degree requires 36 credits of formal course work to be selected in consultation with the student's advisor.

Code	Title	Credits
Required Courses		
EXE 606	Current Literature in Exercise and Sport Science	3
EDU 647	Introduction to Quantitative Research	3
EXE 686	Systemic Physiology and Exercise	3
EXE 693	Research Methods in Exercise and Sport Science	e 3
Select a minimur	n of 6 credit hours selected from the following:	6
EXE 753	Cardiovascular Physiology	
EXE 773	Exercise Endocrinology	
EXE 785	Energy, Metabolism and Exercise	
EXE 795	Skeletal Muscle Physiology	
Elective Courses		
Select 12 credits	of the following:	12
EXE 500	Selected Topics	
EXE 516	Exercise Prescription: Health and Disease	
EXE 517	Pathophysiology	
EXE 519	Metabolic Aspects of Physical Activity	
EXE 600	Selected Topics	
EXE 615	Worksite Health Promotion	
EXE 627	Exercise Testing and Interpretation	
EXE 636	Scientific Principles of Conditioning	
EXE 700	Selected Topics	
In consultation with their advisor, students may chose elective		
course work from	other related programs at Syracuse University.	
Thesis or Research Experience		
EXE 764	Internship in Exercise Science	6
or EXE 997	Master's Thesis	

Total Credits 36