

Measurement M.S. and Ph.D. Programs

Program Description

The M.S. and Ph.D. specializations in measurement are research oriented programs designed for advanced scholarly study and research related to measurement techniques, test development, statistical applications and computer utilization. The M.S. degree prepares students for doctoral level graduate work and may lead to careers in teaching, research, or business. The Ph.D. degree prepares individuals for careers in universities, testing services, private industry, or research institutes.

Faculty

Dr. Ted Baumgartner is the advisor for students in the program. His research is in reliability techniques, measurement schedules, and fitness tests. Other faculty in the Department of Exercise Science include: Dr. Kathy Simpson (biomechanics) Drs. Kirk Cureton, Gary Dudley and Kevin McCully (exercise physiology); Dr. Michael Ferrara (athletic training); Drs. Rod Dishman, Patrick O'Connor and Phil Tomporowski (exercise psychology); Dr. Harry DuVal (adult fitness/cardiac rehabilitation); and Dr. Elaine Cress (gerontology).

Admission

Admission to the program is competitive and based on the student's prior academic record, graduate record exam (GRE) scores, recommendations, and research interests. Minimum requirements include a GRE score (verbal + quantitative) of 1000, an undergraduate grade point average of 2.6 (master's) or 3.0 (doctoral), a graduate grade point average of 3.5 (doctoral) and, in the case of foreign students, a score of 550 on the Test of English as a Foreign Language (TOEFL) exam. Applications from minorities are encouraged. Preference is given to students who have strong measurement, statistical and computer backgrounds, and who have research interests compatible with Dr. Baumgartner. For students interested in an assistantship, admission applications should be completed before February 1.

Prerequisites

Prerequisites for the specialization include some physical activity background and good quantitative skills. Math through integral calculus and undergraduate course work in exercise science are desirable. Students are expected to have an undergraduate or master's (doctoral students) degree in exercise science or an appropriate related field. Some prior course work in the measurement area is expected for doctoral students. Under most circumstances a Ph.D. applicant will have completed a master's degree and thesis or equivalent before being admitted. Alternatively, an applicant can be admitted with a bachelor's degree if he/she meets the following Graduate School criterion: undergraduate GPA x 1000 x GRE verbal + GRE quantitative = 4300. Further, applicants can be admitted with master's thesis or equivalent as a deficiency and do the equivalent of master's thesis while taking course work at The University of Georgia.

Program of Study

M.S. degree. The program of study is developed by the student and major professor based on the student's background, interest and career goals. Requirements for the degree include completion of at least 30 semester hours consisting of at least 24 hours of course work and 6 hours of thesis and related research. Course work must include at least 12 semester hours, exclusive of independent study, in the Exercise Science Department, including two course in measurement and one in research methods (EXRS 7150). Courses in descriptive and inferential statistics (ERSH 6300 and ERSH 8310) are also required. Completion of the program typically requires two years.

Ph.D. degree. The program of study is developed by the student and a four-person advisory committee based on the student's background, interests and career goals. No minimum number of hours is required. The program is designed to provide in-depth knowledge in the area of specialization and proficiency in designing and conducting research. Students are expected to be involved in research throughout their Ph.D. program. The program requires approximately three to four years for those who have previously completed a master's degree.

Course work required of all Ph.D. candidates in the Exercise Science Department includes: 4 hours of research seminar (EXRS 8990), statistics (ERSH 8320, ERSH 8350), and a minimum of 3 hours of doctoral dissertation (EXRS 9300). Courses taken as part of the master's degree can be used to fulfill requirements.

Courses commonly taken in addition to those listed above are typically taken from:

EXRS 6300 Exercise Epidemiology
EXRS 6600 Measurement and Surveillance of Physical Activity
EXRS 7160 Advanced Measurement in Exercise Science
EXRS 7180 Measuring Psychological Constructs
EXRS 7330 Metabolic and Cardiorespiratory Aspects of Exercise
EXRS 7350 Biomechanics of Human Movement
EXRS 8200 Meta-Analysis in HHP

ERSH 8350 Multivariate Methods or STAT 8250
ERSH 8610 Educational Measurement Theory
ERSH 8620 Item Response Theory
ERSH 8630 Applications of Item Response Theory
ERSH 8650 Generalizability Theory
ERSH 8750 Exploratory & Confirmatory Factor Analysis
ERSH 8760 Structural Equation Modeling
ERSH 9700 Internship in Educational Research

CSCI 7010 Computer Programming

Descriptions of these courses may be found in the Graduate School Bulletin.

Assistantships

A limited number of assistantships are available on a competitive basis that require working in the Exercise Science Laboratories (teaching and research), or Fitness Center (fitness programs), or teaching in the Basic Physical Education Program. Department and University assistantships for minorities, Graduate School research assistantships and out-of-state tuition waivers are also available to highly qualified applicants.

For additional information on this program contact:

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For more information on admission please contact:

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Information about Exercise Science programs and faculty is available on the world-wide-web at the following address: <http://www.coe.uga.edu/exs>.

A completed application includes:

- * application form and fee sent to the Graduate School
- * official transcripts sent to the Graduate School
- * official report of GRE scores sent to the Graduate School
- * three letters of recommendation sent to the Department
- * Department questionnaire including resume, statement of purpose, research interests, and previous experience sent to the Department