Nutritional Sciences

IN THE SCHOOL OF EXERCISE AND NUTRITIONAL SCIENCES
IN THE COLLEGE OF HEALTH AND HUMAN SERVICES

OFFICE: Exercise and Nutritional Sciences 351
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WEBSITE: https://ens.sdsu.edu

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Amanda C. McClain, Ph.D., Assistant Professor of Exercise and Nutritional Sciences

Associateships and Assistantships
Graduate teaching associateships are available for a limited number of qualified students. These provide essential education, technical training, and creative experience necessary for future professional and scholarly activity or college-level teaching. Graduate assistantships are also available in some cases to aid faculty research. Applications and additional information on graduate programs may be obtained from the School of Exercise and Nutritional Sciences website at https://ens.sdsu.edu.

General Information
The School of Exercise and Nutritional Sciences offers graduate study leading to the Master of Science degree in nutritional sciences and a concurrent graduate program leading to the Master of Science degree in nutritional science and Master of Science degree in exercise physiology.

Enrollment in the didactic program in dietetics (accredited by the Accreditation Council for Education in Nutrition and Dietetics), is limited to students admitted to the Master of Science degree programs in nutritional sciences, or the concurrent Master of Science degree in nutritional science and Master of Science degree in exercise physiology. For admission consideration to the didactic program in dietetics, students must have completed all of the following (or equivalent courses) with a GPA of 3.1 or better: Biology 100, 100L, 211, 211L, 212, 336; Chemistry 100, 130, 160; and a statistics course (e.g. Psychology 280).

Admission to Graduate Study
All applicants must submit admissions materials separately to SDSU Graduate Admissions and to the School of Exercise and Nutritional Sciences.

Graduate Admissions
The following materials should be submitted as a complete package directly to:

Graduate Admissions
Enrollment Services
San Diego State University
San Diego, CA 92182-7416

1. Official transcripts (in sealed envelopes) from all postsecondary institutions attended;

NOTE:
• Students who attended SDSU need only submit transcripts for work completed since last attendance.
• Students with international coursework must submit both the official transcript and proof of degree. If documents are in a language other than English, they must be accompanied by a certified English translation.

2. GRE scores (http://www.ets.org SDSU institution code 4682);
3. English language score, if medium of instruction was in a language other than English (http://www.ets.org SDSU institution code 4682).

Master of Science Degree in Nutritional Sciences

General Information
For information regarding graduate coursework and research experience leading to a Master of Science degree in nutritional sciences, contact the graduate adviser in the School of Exercise and Nutritional Sciences. The general program of study may include coursework in nutrition or food science. Thesis research in nutrition may be conducted using human subjects or experimental animals. Research activity of the faculty currently includes: appetite and eating behavior; athletic performance; body composition; cardiometabolic health among vulnerable populations; diet behaviors; diet quality; dietary factors and risk for chronic diseases such as cancer and diabetes; energy balance; food access; food choices; food safety; functional foods; lipid metabolism; neuroimaging; nutritional factors that influence musculoskeletal aging and interventions to improve physiological changes with aging, including cardiovascular dysfunction, impairments in cognitive function, and reductions in motor performance; obesity; odor perception; and weight regulation. Laboratories, including animal facilities and equipment, at SDSU support research conducted under the direct supervision of the nutritional sciences graduate faculty. In addition, students may conduct research at other facilities in the community in conjunction with collaborative studies pursued by nutritional sciences faculty and researchers at other institutions in San Diego.

Graduates with the M.S. degree in nutritional sciences are employed as administrators or service providers of community nutrition programs, food service supervisors, and community college educators, as well as, in administrative, research, or quality control positions within industry and government.

Admission to the Degree Curriculum
All students must satisfy the general requirements for admission to the university with classified graduate standing as described in Admission and Registration. In addition, students must have bachelor’s degrees in foods and nutrition or related fields and satisfy the prerequisites of the courses selected. If students’ undergraduate preparation is deemed insufficient, students will be required to complete specified courses in addition to the minimum of 30 units required for the master’s degree in nutritional sciences. Students must have a grade point average of at least 3.0 overall or at least 3.0 in the last 60 units of baccalaureate coursework, and a minimum score of 475 (old GRE score) or 151 (new GRE score) on the verbal and 475 (old GRE score) or 142 (new GRE score) on the quantitative sections of the GRE General Aptitude Test.

Students will be admitted ONLY in the fall semester. Submit applications by the application deadline.
Advancement to Candidacy

All students must satisfy the general requirements for advancement to candidacy as described in Requirements for Master’s Degrees.

Specific Requirements for the Master of Science Degree

(Major Code: 13081) (SIMS Code: 552933)

In addition to meeting the requirements for classified graduate standing and the basic requirements for the master’s degree as described in Requirements for Master’s Degrees, the student must complete a graduate program of at least 30 units including at least 21 units from courses listed as acceptable to the master’s degree program in nutritional sciences. At least 18 units must be in 600- and 700-numbered courses. Also, students complete their degree by choosing either Plan A or Plan B. In Plan A, students will include Nutrition 799A (thesis) for completion of their degree, accompanied by final oral examination on the field of the thesis and on the implications of the thesis research for the broader field of nutritional sciences. If students select Plan B, Exercise and Nutritional Sciences 790 (Directed Readings) is required for completion of the degree.

Required courses (15 units):

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>ENS 601</td>
<td>Experimental Methods in Exercise and Nutritional Sciences</td>
<td>3</td>
</tr>
<tr>
<td>ENS 602</td>
<td>Research Evaluation in Exercise and Nutritional Sciences</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 607</td>
<td>Child Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 608</td>
<td>Geriatric Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 610</td>
<td>Nutrition and Energy</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three units from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR 600</td>
<td>Seminar: Foods and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 700</td>
<td>Seminar in Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

Plan A

NUTR 799A Thesis 3 Cr/NC/RP

OR

ENS 799A Thesis 3 Cr/NC/RP

Plan B

ENS 790 Seminar in Directed Readings 3 Cr/NC

Electives: Nine units to be selected with approval of graduate adviser.

If a student, after entering the concurrent graduate program leading to a Master of Science degree in nutritional science and a Master of Science degree in exercise physiology returns to a single degree program, all the requirements for the single degree program must then be met.

The school expects a student to complete the degree within seven years. Failure to complete the degree requirements within seven years will result in dismissal from the program.

Master of Science Degree in Nutritional Science and Master of Science Degree in Exercise Physiology

Admission to the Degree Curriculum

All students must satisfy the general requirements for admission to the university with classified graduate standing as described in Admission and Registration. In addition, a student applying for admission to the concurrent program in nutritional science and exercise physiology must meet the following requirements.

1. A grade point average (GPA) of at least 3.0 overall or at least 3.0 in the last 60 units of baccalaureate coursework.
2. A bachelor’s degree in foods and nutrition, exercise science, kinesiology, physical education, or related fields. Students will be required to complete or have equivalent preparation in Biology 212, 336, Chemistry 100, 130, 160, Nutrition 201, 302, 302L, and Exercise and Nutritional Sciences 303, 304, 304L, and an undergraduate statistics course.

3. A minimum score of 475 (old GRE score) or 151 (new GRE score) on the verbal and 475 (old GRE score) or 142 (new GRE score) on the quantitative sections of the GRE General Aptitude Test.

Students will be admitted ONLY in the fall semester.

Advancement to Candidacy

All students must satisfy the general requirements for advancement to candidacy, as described in Requirements for Master’s Degrees.

Specific Requirements for the Master of Science in Nutritional Science and Master of Science in Exercise Physiology

(Major Code: 08356) (SIMS Code: 552990)

In addition to meeting the requirements for classified graduate standing and the basic requirements for the master’s degree as described in Requirements for Master’s Degrees, the student must complete an officially approved course of study of not less than 48 units as outlined below. Also, students complete their degree by choosing either Plan A or Plan B. In Plan A, all students will include Nutrition 799A (thesis) or Exercise and Nutritional Sciences 799A (thesis) for completion of their degree, accompanied by final oral examination on the field of the thesis and on the implications of the thesis research for the broader field of exercise and nutritional sciences. If students select Plan B, Exercise and Nutritional Sciences 790 (Directed Readings) is required for completion of the degree.

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<tr>
<td>DPT 750</td>
<td>Concepts in Physiology, Pathophysiology, and Pharmacology</td>
<td>4</td>
</tr>
<tr>
<td>DPT 830</td>
<td>Cardiopulmonary Therapeutics</td>
<td>4</td>
</tr>
<tr>
<td>ENS 601</td>
<td>Experimental Methods in Exercise and Nutritional Sciences</td>
<td>3</td>
</tr>
<tr>
<td>ENS 602</td>
<td>Research Evaluation in Exercise and Nutritional Sciences</td>
<td>3</td>
</tr>
<tr>
<td>ENS 661</td>
<td>Seminar in Advanced Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>ENS 662</td>
<td>Advanced Exercise Physiology Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ENS 796</td>
<td>Exercise Specialist Internship</td>
<td>3</td>
</tr>
<tr>
<td>NUTR 600</td>
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Plan A

NUTR 799A Thesis 3 Cr/NC/RP

OR

ENS 799A Thesis 3 Cr/NC/RP

Plan B

ENS 790 Seminar in Directed Readings 3 Cr/NC

Electives: Seven units to be selected with approval of graduate adviser.

If a student, after entering the concurrent program leading to a Master of Science degree in nutritional sciences and a Master of Science in Exercise Physiology
Science degree in exercise physiology returns to a single degree program, all the requirements for the single degree program must then be met.

The school expects the student to complete the degree requirements within seven years. Failure to complete the degree requirements within seven years will result in dismissal from the program.

Courses Acceptable for Master’s Degree Programs (NUTR)

Refer to Courses and Curricula and Regulations of the Division of Graduate Affairs sections of this bulletin for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

UPPER DIVISION COURSES

NUTR 510. Nutrition Education and Community Health (3)
Two lectures and three hours of activity.
Prerequisites: Nutrition 203 and 304 with a grade of C (2.0) or better in each course.
Nutrition counseling and education. Nutritional problems in the community with consideration of their resolution. Field placement experience required.

NUTR 596. Advanced Studies in Nutrition (1-6)
Prerequisites: Nine upper division units in nutrition.
Advanced study of selected topics. May be repeated with new content. See Class Schedule for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor’s degree. Maximum credit of nine units of 596. No more than six units of 596 may be applied to a bachelor’s degree. Credit for 596 and 696 applicable to a master’s degree with approval of the graduate adviser.

GRADUATE COURSES

NUTR 600. Seminar: Foods and Nutrition (3)
Prerequisites: Nutrition 301, 302, and 302L.
Introductory seminar of research and research publications in foods and nutrition.

NUTR 607. Child Nutrition (3)
Prerequisites: Nutrition 302 and 302L.
Nutrition, health, and biochemical growth in children. Conditions leading to malnutrition, prevention, and correction.

NUTR 608. Geriatric Nutrition (3)
Prerequisites: Nutrition 302 and 302L.
Biomedical and psychosocial aspects of aging that affect food habits, nutritional status, and nutrient needs of elders.

NUTR 610. Nutrition and Energy (3)
Prerequisites: Nutrition 302 and 302L.
Methods for measurement of energy intake and expenditure assessment, factors which control food intake and energy expenditure, and examination of normal and specialized needs of energy requirements.

NUTR 700. Seminar in Nutrition (3)
Prerequisites: Nutrition 302 and 302L.
Reading and analyses of basic and applied research in nutrition.

NUTR 798. Special Study (1-3) Cr/NC/RP
Prerequisite: Consent of staff; to be arranged with the instructor and approval of graduate program adviser.
Individual study. Maximum credit six units applicable to a master’s degree.

NUTR 799A. Thesis (3) Cr/NC/RP
Prerequisites: An officially appointed thesis committee and advancement to candidacy.
Preparation of a thesis for the master’s degree.

NUTR 799B. Thesis Extension (0) Cr/NC
Prerequisite: Prior registration in Thesis 799A with an assigned grade symbol of RP.
Registration required in any semester or term following assignment of RP in Course 799A in which the student expects to use the facilities and resources of the university; also student must be registered in the course when the completed thesis is granted final approval.

NUTR 799C. Comprehensive Examination Extension (0) Cr/NC
Prerequisite: Completion or concurrent enrollment in degree program courses.
Registration required of students whose only requirement is completion of the comprehensive examination for the master’s degree. Registration in 799C limited to two semesters.