Nutrition Sciences, Ph.D. in

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ONLINE SHRP CATALOG EFFECTIVE FALL 2001

Program Director: Nagy
Faculty: Composed of graduate faculty members in the Department of Nutrition Sciences and selected faculty members in other schools and departments.

The Ph.D. Program in Nutrition Sciences provides training and research experience in classical nutrition, clinical nutrition, nutrition and disease prevention, and metabolism of nutrients. Specific areas of emphasis in research include nutritional support of the hospitalized patient, nutrition and the prevention of cancer and atherosclerosis, energy metabolism and body composition, and vitamin and mineral metabolism.

Accreditation: There is no accreditation body for the Ph.D. program. Graduates are eligible to become diplomats in the American Board of Nutrition.

Credentials Conferred: Diploma The Doctor of Philosophy degree is awarded by the University of Alabama at Birmingham.

Length of Study: Two years of coursework plus two or more years for research. Students usually complete the program within five years.

Program Entrance Date: Fall semester enrollment is recommended.

Application Deadline: Application should be made approximately six months prior to term of enrollment.

Application Procedure: The following materials must be submitted to the UAB Graduate School:

- completed UAB Graduate School application materials (all forms available from The Graduate School, Hill University Center, Room 511, 1400 University Boulevard, Birmingham, Alabama 35294-1150),
- non-refundable application fee,
- official transcripts from all colleges attended,
- test scores on GRE taken within past two years,
- brief statement of research interests, professional goals, and past performance,
- three letters of evaluation based on thorough knowledge of the applicant's past performance, academic abilities and potential, and
Requirements for Admission: In addition to the Graduate School's standards, applicants must have an undergraduate degree with a strong science background. All applications will be reviewed by the Ph.D. in Nutrition Sciences Program Admissions Committee, and a recommendation will be made to the Graduate School.

Essential Requirements: Fundamental tasks, behaviors, and abilities necessary to successfully complete the academic and clinical/residency requirements of the program and to satisfy licensure/certification requirements, if any, have been outlined and are available upon request from the academic program office. Students requesting disability accommodations must do so by filing a disability accommodation request in writing with the academic program office.

Program of Study: Candidates for the Ph.D. degree are expected to accomplish the following:

- complete 33 semester hours in a core curriculum covering biochemistry, physiology, clinical and molecular biology aspects of nutrition and statistics and research design;
- complete a minimum of 24 additional semester hours of nutrition sciences courses and courses supporting the study of nutrition sciences;
- pass a written comprehensive examination;
- author at least two research papers which have been accepted for publication by peer-reviewed scientific journals (student must be first author of at least one publication); and
- submit and defend a dissertation reporting results of original scientific research which makes a genuine contribution to the knowledge of nutrition sciences.

Typical Program
(Course requirements are listed in semester credit hours)

**Physiology Emphasis**

**Fall**
- BMG 762 Human Biochemistry and Genetics (2)
- BMG 763 Human Biochemistry and Genetics (5)
- NTR 722 Nutrition, Obesity, and Prevention of Cardiovascular Disease and Cancer (3)
- NTR 778 Special Topics in Nutrition Sciences (1)
- NTR 788 Advanced Nutrition Seminar (1)

**Spring**
- PHY 701 Physiology for Graduate Students (8)
- PAT 711 Scientific Method in Biomedical Research (3)
- NTR 778 Special Topics in Nutrition Sciences (1)
- NTR 788 Advanced Nutrition Seminar (1)

**Summer**
- Electives (12)

**Fall**
- NTR 750 Body Composition and Energy Metabolism (3)
NTR 778 Special Topics in Nutrition Sciences (1)
NTR 788 Advanced Nutrition Seminar (1)
Electives (7)

**Spring**
NTR 711 Clinical Nutrition (4)
NTR 718 Nutritional Biochemistry (6)
NTR 778 Special Topics in Nutrition Sciences (1)
NTR 788 Advanced Nutrition Seminar (1)

**Molecular Emphasis**

**Fall**
CMB 700 Cellular and Molecular Biology I - Biochemistry (5)
CMB 701 Cellular and Molecular Biology II - Prokaryotic Genetics and Molecular Biology (5)
NTR 778 Special Topics in Nutrition Sciences (1)
NTR 788 Advanced Nutrition Seminar (1)

**Spring**
CMB 702 Cellular and Molecular Biology III - Eukaryotic Molecular Biology and Virology (5)
CMB 703 Cellular and Molecular Biology IV - Cell and Developmental Biology (5)
NTR 778 Special Topics in Nutrition Sciences (1)
NTR 788 Advanced Nutrition Seminar (1)

**Summer**
CMB 704 Cellular and Molecular Biology V - Immunology (5)
Electives (7)

**Fall**
GRD 717 Principles of Scientific Integrity (3)
NTR 747 Molecular Biology and Nutrition Sciences (3)
NTR 778 Special Topics in Nutrition Sciences (1)
NTR 788 Advanced Nutrition Seminar (1)
Electives (4)

**Spring**
NTR 711 Clinical Nutrition (4)
NTR 718 Nutritional Biochemistry (6)
NTR 778 Special Topics in Nutrition Sciences (1)
NTR 788 Advanced Nutrition Seminar (1)
PAT 711 Scientific Method in Biomedical Research (3)

**Summer**
Electives (12)

**Integrated**

**Fall**
IBS 700 Biological Chemistry and Cellular Physiology (8)
NTR 778 Special Topics in Nutrition Sciences (1)
NTR 788 Advanced Nutrition Seminar (1)
Electives (2)

**Spring**
IBS 701 Pathophysiology and Pharmacology of Disease (8)
NTR 778 Special Topics in Nutrition Sciences (1)
NTR 788 Advanced Nutrition Seminar (1)
Electives (2)

**Summer**
Electives (12)

**Fall**
NTR 722 Nutrition, Obesity, and Prevention of Cardiovascular Disease
and Cancer (3)
NTR 750 Body Composition and Energy Metabolism (3)
NTR 778 Special Topics in Nutrition Sciences (1)
NTR 788 Advanced Nutrition Seminar (1)
Electives (4)

**Spring**
NTR 711 Clinical Nutrition (4)
NTR 718 Nutritional Biochemistry (6)
NTR 778 Special Topics in Nutrition Sciences (1)
NTR 788 Advanced Nutrition Seminar (1)
PAT 711 Scientific Method in Biomedical Research (3)

**Summer**
Electives (12)

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**For further information, contact:**

Program Director  
Ph.D. in Nutrition Sciences Program  
School of Health Related Professions  
Webb Building, Room 433  
1675 University Boulevard  
University of Alabama at Birmingham  
Birmingham, Alabama 35294-3360  
Telephone: (205) 975-9640  
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For course descriptions, see the UAB School of Health Related Professions Catalog - Course Descriptions.

Go to list of SHRP Programs of Study.