



FDSC 602V	Special Topics (ST: Metabolism and Chronic Disease)
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<b>Total Hours</b>	<b>21</b>
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Completion of the AFLS Ph.D. with a concentration in Human Nutrition does not meet the eligibility requirements to become a registered dietitian nutritionist (RDN). The Commission on Dietetic Registration requires a minimum of a master's degree plus the completion of supervised practice hours. The commission requires that individuals complete the supervised practice hours in programs accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) for this purpose. This is not provided by the University of Arkansas.

In addition to the prerequisites to the AFLS Ph.D. program, applicants are required to have earned credit in the following:

- Introductory Biology (3 credits)
- Physiology (human; 3 credits)
- Biochemistry (3 credits)
- Nutrition (human; 3 credits)
- Statistics (3 credits)

Students entering the graduate program who do not have an undergraduate degree in nutrition or closely related field with training and experience will be required to take the following additional courses:

- CHEM 5813 Biochemistry I
- NUTR 5223 Nutrition During the Life Cycle

## Courses

### **NUTR 5103. Nutrition Research Design and Methodology. 3 Hours.**

This course focuses on topics such as nutrition research terminology, nutritional epidemiology methods, and experimental scientific methods, technologies, and issues involved in understanding and conducting studies on the relationship between human diet and disease. Evaluation of experimental scientific methods include problem identification, research design, preparation and evaluation of experimental research results and outcomes including techniques in the areas of physiology and biochemistry as related to nutrition and metabolism. This course also helps students refine their scientific writing and presentation skills, and introduces hypothesis and proposal development in the nutritional sciences. Prerequisite: Graduate students only. (Typically offered: Spring)

### **NUTR 5113. Advanced Nutrition I. 3 Hours.**

This course will cover nutritional, physiological, and biochemical aspects of carbohydrate, protein, and lipid metabolism in humans and their implications in health and disease. Skills will be developed in critically assessing, interpreting, and presenting research literature on the roles of these macronutrients in human health, and in disease prevention and treatment. Prerequisite: CHEM 3813 and NUTR 3203. (Typically offered: Fall)

### **NUTR 5223. Nutrition During the Life Cycle. 3 Hours.**

Study of normal nutrition emphasizing quantitative needs for nutrients as functions of biologic processes that vary during stages of the life cycle. Nutritive needs during pregnancy and childhood are emphasized with some attention to nourishing aging and elderly adults. Factors that affect food choices and eating behavior are also considered. Lecture 3 hours per week. Prerequisite: Graduate standing and consent of instructor. (Typically offered: Fall)

### **NUTR 5233. Advanced Nutrition II. 3 Hours.**

This course will cover nutritional, physiological, and biochemical aspects of vitamins and minerals in humans, their functions and roles in metabolism, and their implications in health and disease. Skills will be developed in critically assessing, interpreting, and presenting research literature on the role of these micronutrients in human health and on supplementation of micronutrients for disease prevention and treatment, including herbal supplements. Prerequisite: NUTR 5113. (Typically offered: Spring)

### **NUTR 5243. Community Nutrition. 3 Hours.**

Identifying, assessing, and developing solutions for nutritional problems encountered at the local, state, federal, and international levels. Lecture 3 hours per week. Graduate degree credit will not be given for both NUTR 4243 and NUTR 5243. (Typically offered: Spring)

### **NUTR 5263. Medical Nutrition Therapy I. 3 Hours.**

Principles of medical nutrition therapy with emphasis on Nutrition Care Process, and the pathophysiology and current standards of practice for diseases and disorders. Lecture 3 hours per week. Prerequisite: Graduate standing and consent of instructor. (Typically offered: Fall)

### **NUTR 5273. Medical Nutrition Therapy II. 3 Hours.**

Principles of medical nutrition therapy with emphasis on the Nutrition Care Process, and the pathophysiology and current standards of practice for diseases and disorders. Lecture 3 hours per week. Prerequisite: NUTR 5263. (Typically offered: Spring)